Open Source Used In NFVIS Branch Virtualization 4.8.1

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Contents

1.1 libmnl 1.0.3 7.el7
   1.1.1 Available under license
1.2 icu 57
   1.2.1 Available under license
1.3 mapstruct 1.1.0.Final
   1.3.1 Available under license
1.4 slip 0.4.0
   1.4.1 Available under license
1.5 webencodings 0.5.1
   1.5.1 Available under license
1.6 kmod 20-28.el7
   1.6.1 Available under license
1.7 hk2-api 2.5.0-b32
   1.7.1 Available under license
1.8 libseccomp 2.3.1 3.el7
   1.8.1 Available under license
1.9 tomcat-api 7.0.76
   1.9.1 Available under license
1.10 request 2.74.0
   1.10.1 Available under license
1.11 snake-yaml 1.15
   1.11.1 Available under license
1.12 hibernate-validator 5.3.6.Final
   1.12.1 Available under license
1.13 luajit 2.1.0.beta3
   1.13.1 Available under license
1.14 c3p0 0.9.2.1
  1.14.1 Available under license
1.15 sntp 1.0.9
  1.15.1 Available under license
1.16 backoff 2.4.1
  1.16.1 Available under license
1.17 gtk 2.24.31 1.el7
  1.17.1 Available under license
1.18 generate-function 2.0.0
  1.18.1 Available under license
1.19 hibernate 5.2.1.Final
  1.19.1 Available under license
1.20 once 1.4.0
  1.20.1 Available under license
1.21 pcsc-lite 1.8.8 8.el7
  1.21.1 Available under license
1.22 http-proxy 1.15.1
  1.22.1 Available under license
1.23 tunnel-agent 0.4.0
  1.23.1 Available under license
1.24 libarchive 3.1.2 10.el7_2
  1.24.1 Available under license
1.25 pcre 8.32
  1.25.1 Available under license
1.26 ms 0.7.2
  1.26.1 Available under license
1.27 debug 2.0.0
  1.27.1 Available under license
1.28 colorama 0.4.4
  1.28.1 Available under license
1.29 failureaccess 1.0.1
  1.29.1 Available under license
1.30 umask 1.1.0
  1.30.1 Available under license
1.31 gdbm 1.10 8.el7
  1.31.1 Available under license
1.32 spring-boot-starter-json 2.1.11.RELEASE
  1.32.1 Available under license
1.33 e2fsprogs 1.42.9 11.el7
1.34 wayland 1.14.0 2.el7
    1.34.1 Available under license
1.35 graceful-readlink 1.0.1
    1.35.1 Available under license
1.36 jnr-ffi 2.2.1
    1.36.1 Available under license
1.37 expat 2.1.0
    1.37.1 Available under license
1.38 asm-commons 7.1
    1.38.1 Available under license
1.39 coreutils 8.22
    1.39.1 Available under license
1.40 containerd 2.11-3.1
    1.40.1 Available under license
1.41 tough-cookie 2.3.1
    1.41.1 Available under license
1.42 jersey 2.29.1
    1.42.1 Available under license
1.43 spring-beans 5.1.12.RELEASE
    1.43.1 Available under license
1.44 libpng 1.5.13-7.el7_2
    1.44.1 Available under license
1.45 isarray 1.0.0
    1.45.1 Available under license
1.46 imurmurhash 0.1.4
    1.46.1 Available under license
1.47 lsscsi 0.27-6.el7
    1.47.1 Available under license
1.48 SPDX-expression-pare 1.0.2
    1.48.1 Available under license
1.49 berkeley-db 5.3.21-24.el7
    1.49.1 Available under license
1.50 precond 0.2.3
    1.50.1 Available under license
1.51 sed 4.2.2
    1.51.1 Available under license
1.52 sys-mountinfo 0.1.3
    1.52.1 Available under license
1.53 spdy 1.31.0
   1.53.1 Available under license
1.54 hibernate-commons-annotations 5.0.1.Final
   1.54.1 Available under license
1.55 theora 1.1.1-8.el7
   1.55.1 Available under license
1.56 jnr-enxio 0.32.3
   1.56.1 Available under license
1.57 libfastjson 0.99.4 2.el7
   1.57.1 Available under license
1.58 jsr305 3.0.2
   1.58.1 Available under license
1.59 libguestfs 1.38.2-12.el7
   1.59.1 Available under license
1.60 libthai 0.1.14 9.el7
   1.60.1 Available under license
1.61 httpcomponents-client 4.5.6
   1.61.1 Available under license
1.62 javax-el 2.2.4
   1.62.1 Available under license
1.63 lz4 1.7.5
   1.63.1 Available under license
1.64 commons-logging-api 1.1
   1.64.1 Available under license
1.65 dashdash 1.14.0
   1.65.1 Available under license
1.66 parted 3.1 29.el7
   1.66.1 Available under license
1.67 read 1.0.5
   1.67.1 Available under license
1.68 read 1.0.7
   1.68.1 Available under license
1.69 alsa 1.1.8
   1.69.1 Available under license
1.70 go 1.13.6
   1.70.1 Available under license
1.71 hibernate-validator 5.2.1.Final
   1.71.1 Available under license
1.72 body-parser 1.15.0
1.72.1 Available under license
1.73 **hk2-utils** 2.6.1
   1.73.1 Available under license
1.74 **glob** 6.0.4
   1.74.1 Available under license
1.75 **meow** 2.0.0
   1.75.1 Available under license
1.76 **mime-pull** 1.9.6
   1.76.1 Available under license
1.77 **jackson-jaxrs-base** 2.10.4
   1.77.1 Available under license
1.78 **python-dmidecode** 3.10.13
   1.78.1 Available under license
1.79 **free-type** 2.4.11-15.el7
   1.79.1 Available under license
1.80 **jackson** 2.10.3
   1.80.1 Available under license
1.81 **jersey-bean-validation** 2.29
   1.81.1 Available under license
1.82 **zlib** 1.2.8
   1.82.1 Available under license
1.83 **depd** 0.4.5
   1.83.1 Available under license
1.84 **docker-java** 3.2.11
   1.84.1 Available under license
1.85 **j2objc-annotations** 1.1
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1.86 **jersey-media-jaxb** 2.29.1
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1.87 **jemalloc** 5.1.0-2
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1.88 **ncurses** 5.9
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1.90 **go** 1.10.3
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1.93 mute-stream 0.0.5
  1.93.1 Available under license
1.94 path-is-absolute 1.0.0
  1.94.1 Available under license
1.95 trousers 0.3.14 2.el7
  1.95.1 Available under license
1.96 pam 1.1.8-22
  1.96.1 Available under license
1.97 camelcase 1.2.1
  1.97.1 Available under license
1.98 cycle 1.0.3
  1.98.1 Available under license
1.99 libevent 2.0.21-4.el7
  1.99.1 Available under license
1.100 statuses 1.2.1
  1.100.1 Available under license
1.101 statuses 1.5.0
  1.101.1 Available under license
1.102 geo-ip 1.5.0
  1.102.1 Available under license
1.103 commons-lang3 3.9
  1.103.1 Available under license
1.104 iconv-lite 0.4.10
  1.104.1 Available under license
1.105 xalan 2.7.1
  1.105.1 Available under license
1.106 openssl 1.1.1c
  1.106.1 Available under license
1.107 forever-agent 0.6.1
  1.107.1 Available under license
1.108 fs.realpath 1.0.0
  1.108.1 Available under license
1.109 newt 0.52.15 4.el7
  1.109.1 Available under license
1.110 tomcat 7.0.76-12.el7_8
  1.110.1 Available under license
1.111 jersey-media-jaxb 2.25.1
1.111.1 Available under license
112 polkit 0.112 14.el7
1.112.1 Available under license
113 normalize-package-data 2.3.5
1.113.1 Available under license
114 yavijava 6.0.03
1.114.1 Available under license
115 serve-static 1.14.1
1.115.1 Available under license
116 block-stream 0.0.9
1.116.1 Available under license
117 simpleclient 0.7.0
1.117.1 Available under license
118 log-rotate 3.8.6
1.118.1 Available under license
119 jackson-xc 2.10.4
1.119.1 Available under license
120 openssl 1.0.2u
1.120.1 Available under license
121 netty-transport-native-unix-common 4.1.49.Final
1.121.1 Available under license
122 webkit 2.22.7
1.122.1 Available under license
123 fresh 0.5.2
1.123.1 Available under license
124 lua 5.1.4 15.el7
1.124.1 Available under license
125 cyrus-sasl 2.1.26
1.125.1 Available under license
126 safe-buffer 5.1.2
1.126.1 Available under license
127 prompt 0.2.14
1.127.1 Available under license
128 activation-api 1.2.2
1.128.1 Available under license
129 okhttp 3.14.8
1.129.1 Available under license
130 cliff 0.1.9
1.130.1 Available under license
1.131 accepts 1.3.7
   1.131.1 Available under license
1.132 minimist 1.2.0
   1.132.1 Available under license
1.133 seobject 0.1
   1.133.1 Available under license
1.134 send 0.17.1
   1.134.1 Available under license
1.135 mchange-commons-java 0.2.3.4
   1.135.1 Available under license
1.136 ply 3.4-11
   1.136.1 Available under license
1.137 date-format 1.0.11
   1.137.1 Available under license
1.138 requires-port 1.0.0
   1.138.1 Available under license
1.139 ipaddr.js 1.0.5
   1.139.1 Available under license
1.140 okio 1.17.2
1.141 jersey-container-servlet 2.29.1
   1.141.1 Available under license
1.142 csv 0.4.1
   1.142.1 Available under license
1.143 decorator 3.4.0
   1.143.1 Available under license
1.144 is-property 1.0.2
   1.144.1 Available under license
1.145 libxfont 1.5.2-1.el7
   1.145.1 Available under license
1.146 avahi 0.6.31 19.el7
   1.146.1 Available under license
1.147 urfave-cli 1.22.1
   1.147.1 Available under license
1.148 elfutils 0.170 4.el7
   1.148.1 Available under license
1.149 aws-sign2 0.6.0
   1.149.1 Available under license
1.150 psmisc 22.20-16.el7
   1.150.1 Available under license
1.151 ecdsa 0.13
   1.151.1 Available under license
1.152 zlib 1.2.5
   1.152.1 Available under license
1.153 javax-annotation-api 1.3.2
   1.153.1 Available under license
1.154 libtasn 4.10 1.el7
   1.154.1 Available under license
1.155 lzo 2.06 8.el7
   1.155.1 Available under license
1.156 pixman 0.34.0 1.el7
   1.156.1 Available under license
1.157 javax-persistence 2.1.1
   1.157.1 Available under license
1.158 swagger-jaxrs 1.5.16
1.159 ebtables 2.0.10 16.el7
   1.159.1 Available under license
1.160 sha 2.0.1
   1.160.1 Available under license
1.161 object-assign 4.1.1
   1.161.1 Available under license
1.162 xmlrpc-c 1.32.5
   1.162.1 Available under license
1.163 jnr-constants 0.10.1
   1.163.1 Available under license
1.164 jakarta-el 3.0.3
   1.164.1 Available under license
1.165 libcanberra 0.30 5.el7
   1.165.1 Available under license
1.166 mime-types 2.1.29
   1.166.1 Available under license
1.167 github.com/cyphar/filepath-securejoin 0.2.2
   1.167.1 Available under license
1.168 iferr 0.1.5
   1.168.1 Available under license
1.169 hk2-runlevel 2.6.1
   1.169.1 Available under license
1.170 etcd3 0.12.0
   1.170.1 Available under license
1.171 nginx 1.10.1-1.el7.centos.x86_64
   1.171.1 Available under license
1.172 libvorbis 1.3.3
   1.172.1 Available under license
1.173 cryptography 1.7.2
   1.173.1 Available under license
1.174 libxt 1.1.5 3.el7
1.175 springfox-spring-web 2.7.0
1.176 rpm 4.11.3-43.el7
   1.176.1 Available under license
1.177 xerces-j 2.11.0
   1.177.1 Available under license
1.178 append-field 1.0.0
   1.178.1 Available under license
1.179 concat-stream 1.5.2
   1.179.1 Available under license
1.180 asm 9.0
   1.180.1 Available under license
1.181 timespan 2.3.0
   1.181.1 Available under license
1.182 pyliblzma 0.5.3
   1.182.1 Available under license
1.183 pyparsing 1.5.6
   1.183.1 Available under license
1.184 spdx-correct 1.0.2
   1.184.1 Available under license
1.185 xtend 4.0.1
   1.185.1 Available under license
1.186 spice 0.14.0
   1.186.1 Available under license
1.187 init-package-json 1.9.4
   1.187.1 Available under license
1.188 tomcat-tribes 7.0.76
   1.188.1 Available under license
1.189 hosted-git-info 2.1.5
   1.189.1 Available under license
1.190 certifi 2020.11.08
   1.190.1 Available under license
1.191 dtrace-provider 0.4.0
<table>
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<th>Package Name</th>
<th>License</th>
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<td>Available under license</td>
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<td>1.193.1</td>
<td>spring-bridge 2.6.1</td>
<td>Available under license</td>
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<td>postgresql 9.4</td>
<td>Available under license</td>
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<td>1.195.1</td>
<td>kerberos 1.15</td>
<td>Available under license</td>
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<td>1.196.1</td>
<td>array-index 1.0.0</td>
<td>Available under license</td>
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<tr>
<td>1.197.1</td>
<td>tomcat 9.0.34</td>
<td>Available under license</td>
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<td>1.198.1</td>
<td>lru-cache 4.0.1</td>
<td>Available under license</td>
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<td>1.199.1</td>
<td>json-stringify-safe 5.0.1</td>
<td>Available under license</td>
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<tr>
<td>1.200.1</td>
<td>perl 5.16.3</td>
<td>Available under license</td>
</tr>
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<td>1.201.1</td>
<td>jackson-xc 2.8.4</td>
<td>Available under license</td>
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<tr>
<td>1.202.1</td>
<td>ipaddr.js 1.9.1</td>
<td>Available under license</td>
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<tr>
<td>1.203.1</td>
<td>generex 1.0.2</td>
<td>Available under license</td>
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<td>1.204.1</td>
<td>yum-langpacks 0.4.2</td>
<td>Available under license</td>
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<td>1.205.1</td>
<td>p11-kit 0.23.5 3.el7</td>
<td>Available under license</td>
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<td>Available under license</td>
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1.212 form-data 1.0.0-rc4
    1.212.1 Available under license
1.213 javax-inject 2.5.0-b32
    1.213.1 Available under license
1.214 atk 2.22.0-2.el7
    1.214.1 Available under license
1.215 e2fsprogs 1.42.9
    1.215.1 Available under license
1.216 guava 27.0.1-jre
1.217 pseudomap 1.0.2
    1.217.1 Available under license
1.218 kexec-tools 2.0.15-43.el7
    1.218.1 Available under license
1.219 concat-stream 1.6.2
    1.219.1 Available under license
1.220 libvirt-python 4.5.0
    1.220.1 Available under license
1.221 mesa 17.2.3 8.20171019.el7
    1.221.1 Available under license
1.222 libpwquality 1.2.3 5.el7
    1.222.1 Available under license
1.223 gnutls 3.3.26 9.el7
    1.223.1 Available under license
1.224 jnr-x86asm 1.0.2
1.225 ansicolors 0.3.2
    1.225.1 Available under license
1.226 raw-body 2.1.6
    1.226.1 Available under license
1.227 commons-collections 3.2.2
    1.227.1 Available under license
1.228 netaddr 0.7.5
    1.228.1 Available under license
1.229 gimap 1.4.6
    1.229.1 Available under license
1.230 editor 1.0.0
    1.230.1 Available under license
1.231 http-errors 1.6.3
1.231.1 Available under license

1.232 jws 2.0.0
1.232.1 Available under license

1.233 hk2-api 2.6.1
1.233.1 Available under license

1.234 awsjavasdkdec 1.11.201
1.234.1 Available under license

1.235 rsync 3.1.2 4.el7
1.235.1 Available under license

1.236 ms 2.1.1
1.236.1 Available under license

1.237 tcp-dump 4.9.2-4.el7_7.1
1.237.1 Available under license

1.238 zlib 1.2.3
1.238.1 Available under license

1.239 spring-boot-starter-jersey 1.5.18.RELEASE
1.239.1 Available under license

1.240 gir1.2-gdkpixbuf-2.0 2.24.0
1.240.1 Available under license

1.241 ncp 0.6.0
1.241.1 Available under license

1.242 js-htmlencode 0.3.0
1.242.1 Available under license

1.243 jersey-client 2.25.1
1.243.1 Available under license

1.244 xerces-j 2.7.1
1.244.1 Available under license

1.245 jersey-media-jaxb 2.29
1.245.1 Available under license

1.246 janino 2.7.6

1.247 tomcat-embed-el 9.0.34
1.247.1 Available under license

1.248 nssocket 0.5.3
1.248.1 Available under license

1.249 libdaemon 0.14 7.el7
1.249.1 Available under license

1.250 fontconfig 2.13.0 4.3.el7
1.250.1 Available under license

1.251 python-etcd 0.4.5
1.251.1 Available under license
1.252 hk2 2.6.1
   1.252.1 Available under license
1.253 gdisk 0.8.10
   1.253.1 Available under license
1.254 crypto-js 4.0.0
   1.254.1 Available under license
1.255 apache-log4j 1.2.17
   1.255.1 Available under license
1.256 winston 0.8.0
   1.256.1 Available under license
1.257 byte-buddy 1.6.14
   1.257.1 Available under license
1.258 snake-yaml 1.26
   1.258.1 Available under license
1.259 grpc 1.38.0
   1.259.1 Available under license
1.260 lzop 1.03
   1.260.1 Available under license
1.261 mute-stream 0.0.4
   1.261.1 Available under license
1.262 on-finished 2.3.0
   1.262.1 Available under license
1.263 libtool 2.4.2 22.el7_3
   1.263.1 Available under license
1.264 dns-python 1.15.0
   1.264.1 Available under license
1.265 zope-interface 3.6.7
   1.265.1 Available under license
1.266 gir1.2-gdkpixbuf-2.0 2.36.12
   1.266.1 Available under license
1.267 stringprep 1.1
   1.267.1 Available under license
1.268 hivex 1.3.10 6.9.el7
   1.268.1 Available under license
1.269 gstreamer 1.10.4 2.el7
   1.269.1 Available under license
1.270 broadway 0.3.6
   1.270.1 Available under license
1.271 readable-stream 2.3.6
  1.271.1 Available under license
1.272 postfix 2.10.1
  1.272.1 Available under license
1.273 validate-npm-package-license 3.0.1
  1.273.1 Available under license
1.274 fontconfig 2.10.95-11.el7
  1.274.1 Available under license
1.275 libxfont 2.0.1 2.el7
  1.275.1 Available under license
1.276 syndtr-gocapability 0.0.0-20180916011248-d98352740cb2
  1.276.1 Available under license
1.277 lua 5.2.2
1.278 connected-domain 1.0.0
  1.278.1 Available under license
1.279 negotiator 0.6.2
  1.279.1 Available under license
1.280 checker-qual 2.5.2
1.281 jersey-container-servlet-core 2.29.1
  1.281.1 Available under license
1.282 spring-boot-starter-security 2.2.7.RELEASE
  1.282.1 Available under license
1.283 gounits 0.4.0
  1.283.1 Available under license
1.284 cookie 0.1.2
  1.284.1 Available under license
1.285 swagger 1.5.13
  1.285.1 Available under license
1.286 hamcrest 1.3
  1.286.1 Available under license
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1.2 icu 57

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```bash
## -*-makefile-*- 
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD) 
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## 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 
SHAREDLIBCXXFLAGS = -fPIC 

## 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,- Bsymblic 

## 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 $@ 
```

That's all there is to it!
## Dependency rules

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## 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

### 1.3 mapstruct 1.1.0.Final

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<one line to give the program's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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### 1.5 webencodings 0.5.1

#### 1.5.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
No license file was found, but licenses were detected in source scan.

from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1.tar.gz/webencodings-0.5.1/setup.py
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```python
webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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```}

```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = "\\"

webencodings.labels
~~~~~~~~~~~~~~~~~~~~~

Map encoding labels to their name.

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```}

# XXX Do not edit!
# This file is automatically generated by mklables.py

LABELS = {

labels = [
    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('u'))
    for category in json.loads(urlopen(url).read().decode('ascii'))
    for encoding in category['encodings']
    for label in encoding['labels']]
max_len = max(len(label) for label, name in labels)
parts.extend(
    '    %s:%s %s
       * (max_len - len(label)), name)
    for label, name in labels)
parts.append('}')
return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually
aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.
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This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python.

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

1.6 kmod 20-28.el7

1.6.1 Available under license :

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Version 2.1, February 1999

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1.9 tomcat-api 7.0.76

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 */

/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 * 
 * @param executable The executable of interest.
 * 
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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/**
 * <p>
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 * 
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 */

("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting expression, use its name as obtained by the active
* [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* </pre>
* {[@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* </p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/internal/util/TypeHelper.java
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/spi/resourceloading/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/constraints/br/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/constraints/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/internal/engine/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/constraintvalidation/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/internal/metadata/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/internal/metadata/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/group/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/internal/metadata/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/overview.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/resourceinterpolation/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/resourceinterpolation/el/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
jar/org/hibernate/validator/spi/group/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/META-
INF/maven/org.hibernate/hibernate-validator/pom.xml
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/cfg/context/ParameterConstraintMappingContextImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/metadata/descriptor/GroupConversionDescriptorImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/metadata/aggregated/MetaDataBuilder.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/MessageState.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/constraintvalidators/hv/URLValidator.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/constraintvalidators/hv/EmailValidator.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/metadata/facets/Validatable.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/cfg/defs/NotEmptyDef.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/future/FutureValidatorForReadablePartial.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/past/PastValidatorForInstant.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/context/Referential.java
*/
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/hv/ScriptAssertValidator.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/engine/messageinterpolation/LocalizedMessage.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParallelMethodsMustNotDefineGroupConversionForCascadedReturnValue.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/future/FutureValidatorForOffsetDateTime.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/util/privilegedactions/GetMethods.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/constraints/EAN.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/engine/valuehandling/OptionalValueUnwrapper.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/util/privilegedactions/ConstructorInstance.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/engine/ValidatorFactoryImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/xml/ConstrainedTypeBuilder.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/parameternameprovider/ReflectionParameterNameProvider.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/metadata/descriptor/ReturnValueDescriptorImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/constraints/CreditCardNumber.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/util/privilegedactions/Unmarshal.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/PatternValidator.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/engine/MessageInterpolatorContext.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/metadata/provider/XmlMetaDataProvider.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/Token.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/messageinterpolation/AbstractMessageInterpolator.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/messageinterpolation/Parser/Token.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/cfg/defs/DecimalMaxDef.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/cfg/context/ConstructorConstraintMappingContextImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredMethod.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar
jar/org/hibernate/validator/internal/constraintvalidators/hv/package-info.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/cfg/context/ParameterConstraintMappingContext.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/hv/SizeValidatorForArraysOfShort.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/constraints/NotBlank.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/hv/LuhnCheckValidator.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/cfg/context/MethodTarget.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/metadata/descriptor/BeanDescriptorImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/metadata/aggregated/ExecutableMetaData.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/engine/ValidatorImpl.java
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/metadata/descriptor/ParameterDescriptorImpl.java

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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5.jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java

1.13 luajit 2.1.0.beta3
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1.15 sntp 1.0.9

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1.16 backoff 2.4.1

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# Backoff for Node.js

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Fibonacci and exponential backoffs for Node.js.

```shell
# Installation

```~

npm install backoff
```

```shell
# Unit tests

```~
## Usage

### Object Oriented

The usual way to instantiate a new `Backoff` object is to use one predefined factory method: `backoff.fibonacci([options]), backoff.exponential([options])`.

`Backoff` inherits from `EventEmitter`. When a backoff starts, a `backoff` event is emitted and, when a backoff ends, a `ready` event is emitted. Handlers for these two events are called with the current backoff number and delay.

```js
var backoff = require('backoff');

var fibonacciBackoff = backoff.fibonacci(
  randomisationFactor: 0,
  initialDelay: 10,
  maxDelay: 300
);

fibonacciBackoff.failAfter(10);

fibonacciBackoff.on('backoff', function(number, delay) {
  // Do something when backoff starts, e.g. show to the
  // user the delay before next reconnection attempt.
  console.log(number + ' ' + delay + 'ms');
});

fibonacciBackoff.on('ready', function(number, delay) {
  // Do something when backoff ends, e.g. retry a failed
  // operation (DNS lookup, API call, etc.). If it fails
  // again then backoff, otherwise reset the backoff
  // instance.
  fibonacciBackoff.backoff();
});

fibonacciBackoff.on('fail', function() {
  // Do something when the maximum number of backoffs is
  // reached, e.g. ask the user to check its connection.
  console.log('fail');
});
```
fibonacciBackoff.backoff();
```js
The previous example would print the following.
```
```
0 10ms
1 10ms
2 20ms
3 30ms
4 50ms
5 80ms
6 130ms
7 210ms
8 300ms
9 300ms
fail
```

Note that `Backoff` objects are meant to be instantiated once and reused several times by calling `reset` after a successful "retry".

### Functional

It's also possible to avoid some boilerplate code when invoking an asynchronous function in a backoff loop by using `backoff.call(fn, [args, ...], callback)`.

Typical usage looks like the following.
```
``` js
var call = backoff.call(get, 'https://duplika.ca/', function(err, res) {
    console.log('Num retries: ' + call.getNumRetries());

    if (err) {
        console.log('Error: ' + err.message);
    } else {
        console.log('Status: ' + res.statusCode);
    }
});

call.setStrategy(new backoff.ExponentialStrategy());
call.failAfter(10);
call.start();
```

## API

### backoff.fibonacci(
```js
```
Constructs a Fibonacci backoff (10, 10, 20, 30, 50, etc.).

The options are the following.

- randomisationFactor: defaults to 0, must be between 0 and 1
- initialDelay: defaults to 100 ms
- maxDelay: defaults to 10000 ms

With these values, the backoff delay will increase from 100 ms to 10000 ms. The randomisation factor controls the range of randomness and must be between 0 and 1. By default, no randomisation is applied on the backoff delay.

### backoff.exponential([options])

Constructs an exponential backoff (10, 20, 40, 80, etc.).

The options are the following.

- randomisationFactor: defaults to 0, must be between 0 and 1
- initialDelay: defaults to 100 ms
- maxDelay: defaults to 10000 ms
- factor: defaults to 2, must be greater than 1

With these values, the backoff delay will increase from 100 ms to 10000 ms. The randomisation factor controls the range of randomness and must be between 0 and 1. By default, no randomisation is applied on the backoff delay.

### backoff.call(fn, [args, ...], callback)

- fn: function to call in a backoff handler, i.e. the wrapped function
- args: function's arguments
- callback: function's callback accepting an error as its first argument

Constructs a `FunctionCall` instance for the given function. The wrapped function will get retried until it succeeds or reaches the maximum number of backoffs. In both cases, the callback function will be invoked with the last result returned by the wrapped function.

It is the caller's responsibility to initiate the call by invoking the `start` method on the returned `FunctionCall` instance.

### Class Backoff

#### new Backoff(strategy)

- strategy: the backoff strategy to use
Constructs a new backoff object from a specific backoff strategy. The backoff strategy must implement the `BackoffStrategy` interface defined below.

#### backoff.failAfter(numberOfBackoffs)

- numberOfBackoffs: maximum number of backoffs before the fail event gets emitted, must be greater than 0

Sets a limit on the maximum number of backoffs that can be performed before a fail event gets emitted and the backoff instance is reset. By default, there is no limit on the number of backoffs that can be performed.

#### backoff.backoff([err])

Starts a backoff operation. If provided, the error parameter will be emitted as the last argument of the `backoff` and `fail` events to let the listeners know why the backoff operation was attempted.

An error will be thrown an error if a backoff operation is already in progress.

In practice, this method should be called after a failed attempt to perform a sensitive operation (connecting to a database, downloading a resource over the network, etc.).

#### backoff.reset()

Resets the backoff delay to the initial backoff delay and stop any backoff operation in progress. After reset, a backoff instance can and should be reused.

In practice, this method should be called after having successfully completed the sensitive operation guarded by the backoff instance or if the client code request to stop any reconnection attempt.

#### Event: 'backoff'

- number: number of backoffs since last reset, starting at 0
- delay: backoff delay in milliseconds
- err: optional error parameter passed to `backoff.backoff([err])`

Emitted when a backoff operation is started. Signals to the client how long the next backoff delay will be.

#### Event: 'ready'

- number: number of backoffs since last reset, starting at 0
- delay: backoff delay in milliseconds
Emitted when a backoff operation is done. Signals that the failing operation should be retried.

#### Event: 'fail'

- err: optional error parameter passed to `backoff.backoff([err])`

Emitted when the maximum number of backoffs is reached. This event will only be emitted if the client has set a limit on the number of backoffs by calling `backoff.failAfter(numberOfBackoffs)`. The backoff instance is automatically reset after this event is emitted.

### Interface BackoffStrategy

A backoff strategy must provide the following methods.

#### strategy.next()

Computes and returns the next backoff delay.

#### strategy.reset()

Resets the backoff delay to its initial value.

### Class ExponentialStrategy

Exponential (10, 20, 40, 80, etc.) backoff strategy implementation.

#### new ExponentialStrategy([options])

The options are the following.

- randomisationFactor: defaults to 0, must be between 0 and 1
- initialDelay: defaults to 100 ms
- maxDelay: defaults to 10000 ms
- factor: defaults to 2, must be greater than 1

### Class FibonacciStrategy

Fibonacci (10, 10, 20, 30, 50, etc.) backoff strategy implementation.

#### new FibonacciStrategy([options])

The options are the following.

- randomisationFactor: defaults to 0, must be between 0 and 1
- initialDelay: defaults to 100 ms
- maxDelay: defaults to 10000 ms
### Class FunctionCall

This class manages the calling of an asynchronous function within a backoff loop.

This class should rarely be instantiated directly since the factory method `backoff.call(fn, [args, ...], callback)` offers a more convenient and safer way to create `FunctionCall` instances.

#### new FunctionCall(fn, args, callback)

- fn: asynchronous function to call
- args: an array containing fn's args
- callback: fn's callback

Constructs a function handler for the given asynchronous function.

#### call.isPending()

Returns whether the call is pending, i.e. hasn't been started.

#### call.isRunning()

Returns whether the call is in progress.

#### call.isCompleted()

Returns whether the call is completed.

#### call.isAborted()

Returns whether the call is aborted.

#### call.setStrategy(strategy)

- strategy: strategy instance to use, defaults to `FibonacciStrategy`.

Sets the backoff strategy to use. This method should be called before `call.start()` otherwise an exception will be thrown.

#### call.failAfter(maxNumberOfBackoffs)

- maxNumberOfBackoffs: maximum number of backoffs before the call is aborted

Sets the maximum number of backoffs before the call is aborted. By default, there is no limit on the number of backoffs that can be performed.
This method should be called before `call.start()` otherwise an exception will be thrown.

##### call.getLastResult()

Retrieves the last intermediary result returned by the wrapped function. This method can be called at any point in time during the call life cycle, i.e. before, during and after the wrapped function invocation.

Returns an array containing the arguments passed to the completion callback of the wrapped function. For example, to get the error code returned by the last call, one would do the following.

```js
var results = call.getLastResult();
// The error code is the first parameter of the callback.
var error = results[0];
```

##### call.getNumRetries()

Returns the number of times the wrapped function call was retried. For a wrapped function that succeeded immediately, this would return 0. This method can be called at any point in time during the call life cycle, i.e. before, during and after the wrapped function invocation.

##### call.start()

Initiates the call the wrapped function. This method should only be called once otherwise an exception will be thrown.

##### call.abort()

Aborts the call.

The last result can be retrieved using `call.getLastResult()`. This method can be called at any point in time during the call life cycle, i.e. before, during and after the wrapped function invocation.

##### Event: 'call'

- args: wrapped function's arguments

Emitted each time the wrapped function is called.

##### Event: 'callback'
- results: wrapped function's return values

Emitted each time the wrapped function invokes its callback.

#### Event: 'backoff'

- number: backoff number, starts at 0
- delay: backoff delay in milliseconds
- err: the error that triggered the backoff operation

Emitted each time a backoff operation is started.

## Annotated source code

The annotated source code can be found at [mathieuturcotte.github.io/node-backoff/docs](http://mathieuturcotte.github.io/node-backoff/docs/).

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Found in path(s):
* /opt/cola/permits/1301510774_1649254362.8/0/backoff-2-4-1-tgz/package/README.md

1.17 gtk 2.24.31 1.el7

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* /opt/cola/permits/1199742917_1630577017.47/0/failureaccess-1-0-1-sources-3-
  jar/com/google/common/util/concurrent/internal/InternalFutures.java

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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
-
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This is the Debian GNU/Linux prepackaged version of the static EXT2
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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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

That's all there is to it!

#
# 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)
This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995

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```
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 * /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/NativeMemoryManager.java
 * /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/ByReference.java
 * /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/ShareMemoryIO.java
 * /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/NullTypeMapper.java
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* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/platform/ppc64/linux/TypeAliases.java

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* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/AnnotationTypeMapper.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/StructByReferenceResultConverterFactory.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/Types.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/ResultType.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/ToNativeType.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/NativeFunction.java
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* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/ParameterType.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/mapper/SimpleFunctionMapper.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/mapper/SimpleTypeMapper.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/SigType.java
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* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/IntPointer.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/AbstractFastNumericMethodGenerator.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/FastNumericMethodGenerator.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/AbstractAsmLibraryInterface.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/Annotations/LongLong.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/Annotations/Delegate.java
* /opt/cola/permits/1266269370_1644001015.97/0/jnr-ffi-2-2-1-sources-jar/jnr/ffi/provider/jffi/DefaultObjectReferenceManager.java

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/**
 * Constructs a new [@link LocalVariablesSorter]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [@link #LocalVariablesSorter(int, int, String, MethodVisitor)]
 * version.
 *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see [@link Type]).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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/**
 * Constructs a new { @link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>. 
 * Instead, they must use the { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *  
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see { @link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 *
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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1.39 coreutils 8.22
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# Preconditions for Node.js

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Precondition checks for Node.js inspired by [Guava's precondition checking](http://guava.googlecode.com)
## Installation

```sh
npm install precond
```

## Unit tests

```sh
npm test
```

## Overview

Precond provides a set of functions to verify arguments and state correctness.

It lets you rewrite constructs like the following

```js
if (!this.isConnected) {
    throw new Error('Client should be connected before calling X.');
}
```

into a more compact and declarative check below.

```js
precond.checkState(this.isConnected, 'Client should be ...');
```

**Note that even though the throw statement is wrapped in a function, the call stack will still start from the calling function. So the previous examples would both produce the same stack trace.**

All arguments after the message will be used to format the actual error message that will be thrown.

The following precondition checks are provided:

- checkArgument(value, [messageFormat, [formatArgs, ...]])
- checkState(value, [messageFormat, [formatArgs, ...]])
- checkIsDef(value, [messageFormat, [formatArgs, ...]]) -> value
- checkIsDefAndNotNull(value, [messageFormat, [formatArgs, ...]]) -> value
- checkIsString(value, [messageFormat, [formatArgs, ...]]) -> value
- checkIsArray(value, [messageFormat, [formatArgs, ...]]) -> value
- checkIsNumber(value, [messageFormat, [formatArgs, ...]]) -> value
- checkIsBoolean(value, [messageFormat, [formatArgs, ...]]) -> value
- checkIsFunction(value, [messageFormat, [formatArgs, ...]]) -> value
- checkIsObject(value, [messageFormat, [formatArgs, ...]]) -> value

## API

### Static functions

#### precond.checkArgument(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be truthy
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is true. Throws an `IllegalArgumentError` if value is false.

#### precond.checkState(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be truthy
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is true. Throws an `IllegalStateError` if value is false.

#### precond.checkIsDef(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be defined
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is defined (could be null). Throws an `IllegalArgumentError` if value is undefined. Returns the value of the value that was validated.

#### precond.checkIsDefAndNotNull(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be defined and not null
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is defined and not null. Throws an `IllegalArgumentError` if value is undefined or null. Returns the value of the value that was validated.

#### precond.checkIsString(value, [messageFormat, [formatArgs, ...]])
- value: the value that is required to be a string
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is a string or a String object. Throws an `IllegalArgumentError` if value isn't a string. Returns the value of the value that was validated.

##### precond.checkIsArray(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be an array
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is an array. Throws an `IllegalArgumentError` if value isn't an array. Returns the value of the value that was validated.

##### precond.checkIsNumber(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be a number
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is a number. Throws an `IllegalArgumentError` if value isn't a number. Returns the value of the value that was validated.

##### precond.checkIsBoolean(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be a boolean
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is a boolean. Throws an `IllegalArgumentError` if value isn't a boolean. Returns the value of the value that was validated.

##### precond.checkIsFunction(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be a function
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is a function. Throws an `IllegalArgumentError` if value isn't a function. Returns the value of the value that was validated.
### precond.checkIsObject(value, [messageFormat, [formatArgs, ...]])

- value: the value that is required to be an object
- messageFormat: error message format template
- formatArgs: arguments to be substituted into the message template

Ensures that value is an object. Throws an `IllegalArgumentError` if value isn’t an object. Returns the value of the value that was validated.

### Class precond.IllegalArgumentException

Extends `Error` and is thrown to signal illegal arguments.

### Class precond.IllegalStateError

Extends `Error` and is thrown to signal that the program or object has reached an illegal state.

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1.55 theora 1.1.1-8.el7

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1.59 libguestfs 1.38.2-12.el7

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  *)

(* This is the traditional virt-sparsify mode: We copy from a
  * source disk to a destination disk.
  *)

open Unix
open Printf

open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils

open Utils
open Cmdline

module G = Guestfs

type tmp_place =
  | Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
  format ignores machine_readable option tmp_param zeroes =
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* What should the output format be? If the user specified an input format, use that, else detect it from the source image. *)

let output_format =
match convert with
| Some fmt -> fmt (* user specified output conversion *)
| None ->
  match format with
  | Some fmt -> fmt (* user specified input format, use that *)
  | None ->
    (* Don't know, so we must autodetect. *)
    match (open_guestfs ())#disk_format indisk with
    | "unknown"->
      error (f_"cannot detect input disk format; use the --format parameter")
    | fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output. Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
match tmp_param with
| None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
| Some dir when is_directory dir -> Directory dir
| Some dev when is_block_device dev -> Block_device dev
| Some file when String.is_prefix file "prebuilt:" ->
  let file = String.sub file 9 (String.length file - 9) in
  if not (Sys.file_exists file) then
    error (f_"--tmp prebuilt:file: %s: file does not exist") file;
  let g = open_guestfs () in
  if g#disk_format file <> "qcow2" then
    error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
  if not (g#disk_has_backing_file file) then
    error (f_"--tmp prebuilt:file: %s: file does not have backing file")
    file;
    Prebuilt_file file
| Some path ->
error (f_"--tmp parameter must point to a directory, block device or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
 | Block_device _
 | Prebuilt_file _ -> ()
 | Directory tmpdir ->
 (* Get virtual size of the input disk. *)
 let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
default "input disk virtual size is %Ld bytes (%s)"
     virtual_size (human_size virtual_size);

let print_warning () =
    let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
    let extra_needed = virtual_size ^ free_space in
    if extra_needed > 0L then (warning (f_"
There may not be enough free space on %s.
You may need to set TMPDIR to point to a directory with more free space.

Max needed: %s. Free: %s. May need another %s.

Note this is an overestimate. If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option. See virt-sparsify(1).

%!"
    tmpdir (human_size virtual_size)
    (human_size free_space) (human_size extra_needed);
    true
) else false
in

match check_tmpdir with
 | `Ignore -> ()
 | `Continue -> ignore (print_warning ())
 | `Warn ->
    if print_warning () then (eprintf "Press RETURN to continue or ^C to quit.
%!");
    ignore (read_line ());
 |
 | `Fail ->
    if print_warning () then (eprintf "Exiting because --check-tmpdir=fail was set.
%!");
    exit 2)
)
(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place with
   | Directory tmpdir ->
     message (f_"Create overlay file in %s to protect source disk") tmpdir
   | Block_device device ->
     message (f_"Create overlay device %s to protect source disk") device
   | Prebuilt_file file ->
     message (f_"Using prebuilt file %s as overlay") file
  );

(* Create 'tmp' with the indisk as the backing file. *)
let create tmp =
  let g = open_guestfs () in
  g#disk_create
  ~backingfile:indisk ?backingformat:format ~compat:"1.1"
  tmp "qcow2" Int64.minus_one
in

match tmp_place with
 | Directory temp_dir ->
   let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
   unlink_on_exit tmp;
   create tmp;
   tmp
 | Block_device device ->
   create device;
   device
 | Prebuilt_file file ->
   (* Don't create anything, use the prebuilt file as overlay. *)
   file in
message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

if not (quiet ()) then Progress.set_up_progress_bar ~machine_readable g;
g#launch ();
(* Decrypt the disks. *)
inspect_decrypt g;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount, *
* and selected swap partitions. *)
let filesystems = g#list_filesystems () in
let btrfs_filesystems = List.filter (fun (fs, fstype) -> fstype = "btrfs") filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in
let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores in
  fs
let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (try
      let vol_info = g#btrfs_subvolume_show mp in
      String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags ^ 0x1_L) <> 0_L
in

List.iter (fun fs ->
  if not (is_ignored fs) && not (is_read_only_1v fs) then (  
    if List.mem fs zeroes then (  
      message (f:"Zeroing \%s") fs;

      g#zero_device fs
    ) else (  
      let mounted =  
        try g#mount fs "/"; true  
      with _ -> false in

      if mounted then (  
        if is_readonly_btrfs_snapshot fs "/" then (  
          info (f:"Skipping \%s, as it is a read-only btrfs snapshot.") fs;
        ) else if is_readonly_device "/" then (  
          info (f:"Skipping \%s, as it is a read-only device.") fs;
        ) else (  
          message (f:"Fill free space in \%s with zero") fs;

          g#zero_free_space "/"
        )
      )
    )
  ) else (  
    let is_linux_x86_swap =  
      (* Look for the signature for Linux swap on i386.  
      * Location depends on page size, so it definitely won't  
      * work on non-x86 architectures (eg. on PPC, page size is  
      * 64K). Also this avoids hibernated swap space: in those,  
      * the signature is moved to a different location.  
      *)
      try g#pread_device fs 10 4086L = "SWAPSPACE2"  
      with _ -> false in

      if is_linux_x86_swap then (  
        message (f:"Clearing Linux swap on \%s") fs;

        (* Don't use mkswap. Just preserve the header containing  
        * the label, UUID and swap format version (libguestfs  
        * mkswap may differ from guest's own).  
        *)
        let header = g#pread_device fs 4096 0L in  
        g#zero_device fs;

        if g#pwrite_device fs header 0L <> 4096 then  
          error (f:"pwrite: short write restoring swap partition header")
      )  
  )
);
g#umount_all()
)
)
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs = List.sort compare vgs in
List.iter (fun vg ->
    if not (List.mem vg ignores) then (let lvname = String.random8 () in
        let lvdev = "/dev/" ^ vg ^ "/" ^ lvname in
            let created =
                try g#lvcreate_free lvname vg 100; true
                with _ -> false in
        if created then (message (f_"Fill free space in volgroup %s with zero") vg;
            g#zero_device lvdev;
            g#sync ();
            g#lvremove lvdev
        )
    )
) vgs;

(* Don’t need libguestfs now. *)
g#shutdown();
g#close();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
* destination and automatically does sparsification.
*)
message ("Copy to destination and make sparse");

let cmd =
    sprintf "qemu-img convert -f qcow2 -O %s %s %s %s"
    (quote output_format)
    (if compress then " -c" else "")
    (match option with
        | None -> ""
Some option -> " -o " ^ quote option)
(quote overlaydisk) (quote (qemu_input_filename outdisk)) in
if shell_command cmd <> 0 then
  error (f_"external command failed: %s") cmd;

(* Finished. *)
message (f_"Sparsify operation completed with no errors.");
if not (quiet ()) then
  info (f_"Before deleting the old disk, carefully check that the target disk boots and works correctly.")
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(** This is the traditional virt-sparsify mode: We copy from a
source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string -> Cmdline.check_t -> bool -> string option -> string option -> string list -> bool -> string option -> string option -> string list -> unit

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1.60 libthai 0.1.14 9.el7
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 */

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 */

Found in path(s):
  /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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/**
 * <p>
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 * <p>
 * <code>@ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")</code>
 */

public void createEvent(Date start, Date end) {
    ...
}
</pre>
<p>
Can be specified on any method or constructor.
</p>

@<p><b>author</b> Gunnar Morling
</p>

Path(s):

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Path(s):

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INF/validation-configuration-1.0.xsd
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/messageinterpolation/package.html
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/engine/constraintvalidation/package.html
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/metadata/provider/package.html
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/engine/path/package.html
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/metadata/facets/package.html
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*/
/**
* Retrieves constraint related meta data for the parameters of the given
* executable.
*
* @param executable The executable of interest.
*
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetadataProvider.java
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* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/metadata/raw/AbstractConstrainedElement.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/util/StringHelper.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/util/logging/Messages.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/Mod11CheckValidator.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/cfg/context/Constrainable.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/path/PropertyNode.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/ScriptAssertContext.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/constraints/CompositionType.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/MaxValidatorForCharSequence.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMaxValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/BeanMetaData.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/util/Contracts.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/engine/ServiceLoaderBasedConstraintDefinitionContributor.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/engine/valuehandling/OptionalValueUnwrapper.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/messageinterpolation/ParameterMessageInterpolator.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/cfg/context/GroupConversionTargetContextImpl.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/cfg/defs/AssertTrueDef.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/past/PastValidatorForCalendar.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/internal/util/ModUtil.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5-2-1-final-sources-jar/org/hibernate/validator/cfg/defs/NotEmptyDef.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/TokenCollector.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/engine/ValidationContext.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/util/classhierarchy/ClassHierarchyHelper.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/messageinterpolation/AbstractMessageInterpolator.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/messageinterpolation/HibernateMessageInterpolatorContext.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/messageinterpolation/facets/Validatable.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/spi/valuehandling/ValidatedValueUnwrapper.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/spi/valuehandling/TypeResolverBasedValueUnwrapper.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/NotNullValidator.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/future/FutureValidatorForDate.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredConstructor.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/xml/ValidationBootstrapParameters.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/cfg/context/ConstraintMappingContextImplBase.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/cfg/defs/NotNullDef.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/internal/engine/path/PathImpl.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/cfg/context/TypeConstraintMappingContext.java
* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/spi/time/TimeProvider.java
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* /opt/ws_local/PERMITS_SQL/1080028307_1597558293.81/0/hibernate-validator-5.2.1-final-sources-jar/org/hibernate/validator/spi/context/ValidatorContextImpl.java

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1.72 body-parser 1.15.0

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1.73 hk2-utils 2.6.1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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 */

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */

public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
        // implementation
    }
}
public final String getName() { return null; }

public void checkGuard(Object obj) throws SecurityException { }

public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

public abstract String getActions();

public abstract boolean implies(Permission permission);

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file name:  UBiDiProps.java
encoding:   US-ASCII
tab size:   8 (not used)
indentation:4

created on: 2005jan16
created by: Markus W. Scherer

Low-level Unicode bidi/shaping properties access.
Java port of ubidi_props.h/.c.

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This locale data is based on the ICU’s Vietnamese locale data (rev. 1.38) found at:


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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
  <li>Set the metadata of the new text to the metadata of the first character replaced</li>
  <li>If no characters are replaced, use the metadata of the previous character</li>
  <li>If there is no previous character (i.e. start == 0), use the following character</li>
  <li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
  <li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>

If this is not the behavior, the subclass should document any differences.
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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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1.88 ncurses 5.9

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1.91 pcre 8.43

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1.100 statuses 1.2.1

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
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- javae_web_services_1_3.xsd  
- javae_web_services_client_1_3.xsd  
- jsp_2_2.xsd  
- web-app_3_0.xsd  
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- javae_5.xsd
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- javae_web_services_client_1_2.xsd
- javae_6.xsd
- javae_web_services_1_3.xsd
- javae_web_services_client_1_3.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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1.113 normalize-package-data 2.3.5
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1.114 yavijava 6.0.03
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package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class ExpiredAddonLicense extends ExpiredFeatureLicense {
}

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package com.vmware.vim25;

import java.util.Calendar;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class ExpiredFeatureLicense extends NotEnoughLicenses {
    public String feature;
    public int count;
    public Calendar expirationDate;

    public String getFeature() {
        return this.feature;
    }

    public int getCount() {
        return this.count;
    }

    public Calendar getExpirationDate() {
        return this.expirationDate;
    }

    public void setFeature(String feature) {
        this.feature = feature;
    }

    public void setCount(int count) {
        this.count = count;
    }

    public void setExpirationDate(Calendar expirationDate) {
        this.expirationDate = expirationDate;
    }
}
package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class Permission extends DynamicData {
    public ManagedObjectReference entity;
    public String principal;
    public boolean group;
    public int roleId;
    public boolean propagate;

    public ManagedObjectReference getEntity() {
        return this.entity;
    }
}

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package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class Permission extends DynamicData {
    public ManagedObjectReference entity;
    public String principal;
    public boolean group;
    public int roleId;
    public boolean propagate;

    public ManagedObjectReference getEntity() {
        return this.entity;
    }
}
public String getPrincipal() {
    return this.principal;
}

public boolean isGroup() {
    return this.group;
}

public int getRoleId() {
    return this.roleId;
}

public boolean isPropagate() {
    return this.propagate;
}

public void setEntity(ManagedObjectReference entity) {
    this.entity = entity;
}

public void setPrincipal(String principal) {
    this.principal = principal;
}

public void setGroup(boolean group) {
    this.group = group;
}

public void setRoleId(int roleId) {
    this.roleId = roleId;
}

public void setPropagate(boolean propagate) {
    this.propagate = propagate;
}

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===============================================================================
package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class InvalidEditionLicense extends NotEnoughLicenses {
    public String feature;

    public String getFeature() {
        return this.feature;
    }

    public void setFeature(String feature) {
        this.feature = feature;
    }
}
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================================================================================*/

package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class VramLimitLicense extends NotEnoughLicenses {
    public int limit;

    public int getLimit() {
        return this.limit;
    }

    public void setLimit(int limit) {
        this.limit = limit;
    }
}

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package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class NotEnoughLicenses extends RuntimeFault {
}

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package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class VmLimitLicense extends NotEnoughLicenses {
    public int limit;

    public int getLimit() {
        return this.limit;
    }

    public void setLimit(int limit) {
        this.limit = limit;
    }
}

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package com.vmware.vim25;

/**<p>*/
* @author Steve Jin (http://www.doublecloud.org)
* @version 5.1
*/

@SuppressWarnings("all")
public class ExpiredEditionLicense extends ExpiredFeatureLicense {
}

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package com.vmware.vim25;

/**
 * @author Steve Jin (http://www.doublecloud.org)
 * @version 5.1
 */

@SuppressWarnings("all")
public class InvalidLicense extends VimFault {
    public String licenseContent;

    public String getLicenseContent() {
        return this.licenseContent;
    }

    public void setLicenseContent(String licenseContent) {
        this.licenseContent = licenseContent;
    }
}

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1.116 block-stream 0.0.9

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1.117 simpleclient 0.7.0

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1.118 log-rotate 3.8.6

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1.119 jackson-xc 2.10.4
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Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.

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Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
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re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchko vladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A. Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.

2015
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## -*-makefile-*-

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## 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
SHAREDLIBCCXXFLAGS = -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/\($\*)\(o[ :]*\)/$@ : /g\" > $@ \\
[ -s @ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"s/\($\*)\(o[ :]*\)/$@ : /g\" > $@ \\
[ -s @ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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Metadata-Version: 1.0
Name: ply
Version: 3.4
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:

PLY is yet another implementation of lex and yacc for Python. Some notable
features include the fact that its implemented entirely in Python and it
uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty
productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.
It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
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PLY (Python Lex-Yacc)  Version 3.4

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Introduction

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides very extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for “real” programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document.

Requirements
==============
PLY requires the use of Python 2.2 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
========= More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

A Google group for PLY can be found at

http://groups.google.com/group/ply-hack

Acknowledgments
================ A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.2 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.
Example
========

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# # calc.py
#
# # A simple calculator with variables.
# #

tokens = (    'NAME','NUMBER',    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',    'LPAREN','RPAREN', )

# Tokens
t_PLUS   = r'\+'
t_MINUS  = r'-'    t_TIMES  = r'\*'    t_DIVIDE = r'/'    t_EQUALS = r'='    t_LPAREN = r'('    t_RPAREN = r')'
t_NAME   = r'[a-zA-Z_]\[a-zA-Z0-9_]"'

def t_NUMBER(t):
   r'\d+'    t.value = int(t.value)
   return t

# Ignored characters
t_ignore = " \
"

def t_newline(t):
   r'\n+'    t.lexer.lineno += t.value.count("\n")

def t_error(t):
   print("Illegal character \%s" % t.value[0])
   t.lexer.skip(1)

# Build the lexer
import ply.lexer as lex
lex.lex()```
# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s' % p[1])
        p[0] = 0
def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while 1:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
========================
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. To contact me about
bugs and/or new features, please send email to dave@dabeaz.com.

In addition there is a Google group for discussing PLY related issues at

    http://groups.google.com/group/ply-hack

-- Dave

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1.142 csv 0.4.1

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1.143 decorator 3.4.0

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try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error"""
    for line in open(fname):
        if line.startswith('__version__ '):
            return eval(line[13:])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          url='http://pypi.python.org/pypi/decorator',
          license='BSD License',
          package_dir = {'': 'src'},
          py_modules = ['decorator'],
          keywords='decorators generic utility',
          platforms=['All'],
          classifiers=['Development Status :: 5 - Production/Stable',
                       'Intended Audience :: Developers',
                       'License :: OSI Approved :: BSD License',
                       'Natural Language :: English',
                       'Operating System :: OS Independent',
                       'Programming Language :: Python',
                       'Programming Language :: Python :: 3',
                       'Topic :: Software Development :: Libraries',
                       'Topic :: Utilities'],
          use_2to3=True,
          zip_safe=False)

Found in path(s):
  * /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/setup.py

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Decorator module

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

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
Installation
-------------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
-------

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there
is an older version of the decorator module; in such a case remove the old version.

Documentation

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

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_
- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


Repository

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

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

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* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/README.txt
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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
Installation
-------------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

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.. _distribute: http://packages.python.org/distribute/

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--------

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$ python documentation.py

for Python 3.X run

$ python documentation3.py

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Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.
There are various versions of the documentation:

- `HTML version (Python 2)`
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Repository

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

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Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
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* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/documentation.py
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/documentation3.py

1.144 is-property 1.0.2
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1.145 libxfont 1.5.2-1.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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1.146 avahi 0.6.31 19.el7
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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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* /opt/cola/permits/1257847002_1643019254.57/0/jnr-constants-0-10-1-sources-jar/jnr/constants/platform/ConstantResolver.java
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1.164 jakarta-el 3.0.3

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1.179 concat-stream 1.5.2

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* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/Edge.java
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* /opt/cola/permits/1135935626_1613638743.82/0/asm-9-0-sources-2-jar/org/objectweb/asm/TypePath.java
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1.181 timespan 2.3.0

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1.182 pyliblzma 0.5.3

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### 1.183 pyparsing 1.5.6

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### 1.184 spdx-correct 1.0.2

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1.185 xtend 4.0.1
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1.187 init-package-json 1.9.4
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1.188 tomcat-tribes 7.0.76

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jar/org/apache/commons/logging/impl/Log4JLogger.java
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uts/common/gssapi/include/mechglueP.h
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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Julian Seward, jseward@bzzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>,'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
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The End

#!perl

copyright.t

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' } if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation"); }

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
}
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
  # returns the latest copyright year from the top-level README file
  {
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = ";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
      or die "Year not found in README copyright message \'$copyright_msg\';

  $year;
  }

sub v_year
  # returns the latest copyright year shown in perl -v
  {
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /\bcopyright 1987.*\b(\d{4,})/i
      or die "Copyright statement not found in perl -v output \'$output\';

  $year;
  }

1.202 jackson-xc 2.8.4
1.202.1 Available under license:

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# Jackson JSON processor
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## Credits

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### 1.203 ipaddr.js 1.9.1

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### 1.204 generex 1.0.2
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```
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.github.mifmif</groupId>
  <artifactId>generex</artifactId>
  <version>1.0.2</version>
  <name>Generex</name>
  <url>https://github.com/mifmif/Generex/tree/master</url>
  <description>Generex A Java Library for regex to Strings generation</description>
  <packaging>jar</packaging>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>
  <developers>
    <developer>
      <id>mifmif</id>
      <name>MIFRAH Youssef</name>
      <email>mifmif.com@gmail.com</email>
    </developer>
    <developer>
      <id>mkolisnyk</id>
      <name>mkolisnyk</name>
      <email>kolesnik.nickolay@gmail.com</email>
    </developer>
  </developers>

  <parent>
    <groupId>org.sonatype.oss</groupId>
    <artifactId>oss-parent</artifactId>
    <version>7</version>
  </parent>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <maven.pmd.excludes>**/generated-sources/**</maven.pmd.excludes>
  </properties>

  <scm>
    <connection>scm:git@github.com:mifmif/Generex.git</connection>
    <developerConnection>scm:git@github.com:mifmif/Generex.git</developerConnection>
    <url>https://github.com/mifmif/Generex.git</url>
  </scm>
</project>
```
<plugin>
  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.3</version>
  <executions>
    <execution>
      <id>default-deploy</id>
      <phase>deploy</phase>
      <goals>
        <goal>deploy</goal>
      </goals>
    </execution>
  </executions>
  <extensions>true</extensions>
  <configuration>
    <serverId>ossrh</serverId>
    <nexusUrl>https://oss.sonatype.org/</nexusUrl>
  </configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-pmd-plugin</artifactId>
  <version>3.6</version>
  <configuration>
    <failOnViolation>true</failOnViolation>
    <excludeRoots>
      <excludeRoot>target/generated-sources/plugin</excludeRoot>
    </excludeRoots>
    <excludes>
      <exclude>**/HelpMojo.java</exclude>
    </excludes>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>check</goal>
        <goal>cpd-check</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<executions>
    <execution>
        <goals>
            <goal>check</goal>
        </goals>
    </execution>
</executions>

<configuration>
    <encoding>${project.build.sourceEncoding}</encoding>
    <ccnLimit>15</ccnLimit>
    <nccsLimit>100</nccsLimit>
    <failOnViolation>true</failOnViolation>
    <excludes>
        <exclude>**/tests/**/*.*</exclude>
    </excludes>
</configuration>

<executions>
    <execution>
        <goals>
            <goal>check</goal>
        </goals>
    </execution>
</executions>

<plugin>
    <groupId>org.codehaus.mojo</groupId>
    <artifactId>javancss-maven-plugin</artifactId>
    <version>2.0</version>
    <configuration>
        <encoding>${project.build.sourceEncoding}</encoding>
        <ccnLimit>15</ccnLimit>
        <nccsLimit>100</nccsLimit>
        <failOnViolation>true</failOnViolation>
        <excludes>
            <exclude>**/tests/**/*.*</exclude>
        </excludes>
    </configuration>
    <executions>
        <execution>
            <goals>
                <goal>check</goal>
            </goals>
        </execution>
    </executions>
</plugin>

<plugin>
    <groupId>org.codehaus.mojo</groupId>
    <artifactId>findbugs-maven-plugin</artifactId>
    <version>3.0.1</version>
    <configuration>
        <encoding>${project.build.sourceEncoding}</encoding>
        <failOnError>true</failOnError>
        <excludeFilterFile>findBugsExclude.xml</excludeFilterFile>
    </configuration>
    <executions>
        <execution>
            <goals>
                <goal>check</goal>
            </goals>
        </execution>
    </executions>
</plugin>

<plugin>
    <groupId>org.codehaus.mojo</groupId>
    <artifactId>jdepend-maven-plugin</artifactId>
    <version>2.0</version>
</plugin>

<dependencies>
<dependency>
<groupId>dk.brics.automaton</groupId>
<artifactId>automaton</artifactId>
<version>1.11-8</version>
</dependency>

<dependency>
<groupId>junit</groupId>
<artifactId>junit</artifactId>
<version>4.12</version>
<scope>test</scope>
</dependency>

<dependency>
<groupId>org.hamcrest</groupId>
<artifactId>hamcrest-junit</artifactId>
<version>2.0.0.0</version>
<scope>test</scope>
</dependency>

</dependencies>

</project>

Found in path(s):
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/META-INF/maven/com.github.mifmif/generex/pom.xml
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/GenerexIterator.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Generex.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Node.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/util/Iterator.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Main.java
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/util/Iterable.java

1.205 yum-langpacks 0.4.2

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1.209 deep-equal 0.2.2

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1.210 sqlite 3.7.17 8.el7
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<style type="text/css">
body {
   margin: auto;
   font-family: Verdana, sans-serif;
   padding: 8px 1%;
}

a { color: #044a64 }
a:visited { color: #734559 }

.logo { position:absolute; margin:3px; }
.tagline {
   float:right;
   text-align:right;
   font-style:italic;
   width:300px;
   margin:12px;
   margin-top:58px;
}

.menubar {
   clear: both;
   border-radius: 8px;
   background: #044a64;
   padding: 0px;
   margin: 0px;
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1.211 dosfs-tools 3.0.20

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1.213 javax-inject 2.5.0-b32

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1.215 e2fsprogs 1.42.9

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 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
-
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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/

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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/

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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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

<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
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You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989
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1.221 mesa 17.2.3 8.20171019.el7

1.221.1 Available under license:
/* 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, tilda, equals, exclamation point, colon, semicolon,
 *  *  comma, and question mark

* * Special:
* *
* Number sign (as used in preprocessor)
* *
* Backslash just before newline as line continuation
* *
* White space:
* *
* Space, horizontal tab, vertical tab, form feed, carriage-return,
* and line-feed.
* *
* [GLSL Language Specification 4.30.6, section 3.1]
* *
* In this file, we test each of these in turn as follows:
* *
* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
* Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
* 2 newline characters each replaced with a newline
* *
*/

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_.
0123456789
-+
-/
*
%
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[
]
(
)
{
}
^|
&~
=
!
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# Authors:
#  Ian Romanick <idr@us.ibm.com>

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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
<!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>
Disclaimer

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<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
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<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/*</td>
<td>MIT, generally</td>
</tr>
<tr>
<td>Gallium code</td>
<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>include/GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>include/GL/glxext.h</td>
<td></td>
</tr>
<tr>
<td>GLX client code</td>
<td>src/glx/</td>
<td>SGI Free Software License B</td>
</tr>
</tbody>
</table>
C11 thread emulation
</pre>

<p>
In general, consult the source files for license terms.
</p>

</div>
</body>
</html>

1.222 libpwquality 1.2.3 5.el7

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Ty Coon, President of Vice

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Open Source Used In NFVIS Branch Virtualization 4.8.1 1739
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########################################################################
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##
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1.233 hk2-api 2.6.1

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
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* https://github.com/eclipse-ee4j/glassfish-fighterfish

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  jar/com/amazonaws/services/ec2/model/DryRunSupportedRequest.java
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  jar/com/amazonaws/services/ec2/util/package-info.java
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  jar/com/amazonaws/services/ec2/model/DryRunResult.java

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Describes the ID format settings for your resources on a per-region basis, for example, to view which resource types are enabled for longer IDs. This request only returns information about resource types whose ID formats can be modified; it does not return information about other resource types.

The following resource types support longer IDs: `<code>instance</code> | `<code>reservation</code> | `<code>snapshot</code> | `<code>volume</code>.

These settings apply to the IAM user who makes the request; they do not apply to the entire AWS account. By default, an IAM user defaults to the same settings as the root user, unless they explicitly override the settings by running the `<a>ModifyIdFormat</a>` command. Resources created with longer IDs are visible to all IAM users, regardless of these settings and provided that they have permission to use the relevant `<code>Describe</code>` command for the resource type.

@param describeIdFormatRequest
    Contains the parameters for DescribeIdFormat.

@see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/DescribeIdFormat" target="_top">AWS API Documentation</a>
* user, then these settings apply to the entire account, unless an IAM user explicitly overrides these settings for
* themselves. For more information, see &lt;a href="http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/resource-ids.html">Resource IDs</a>&lt;/i&gt; in the
<i>Amazon Elastic Compute Cloud User Guide</i>.</p>

* Resources created with longer IDs are visible to all IAM roles and users, regardless of these settings and
* provided that they have permission to use the relevant &lt;code&gt;Describe&lt;/code&gt; command for the resource type.

@sample AmazonEC2.ModifyIdFormat

@see &lt;a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/ModifyIdFormat" target="_top">AWS API
  Documentation</a>

*/

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* /opt/cola/permits/1137623454_1614109446.5/0/aws-java-sdk-ec2-1-11-201-sources-1-
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* /opt/cola/permits/1137623454_1614109446.5/0/aws-java-sdk-ec2-1-11-201-sources-1-
  jar/com/amazonaws/services/ec2/AmazonEC2Client.java

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jar/com/amazonaws/services/ec2/model/transform/ImportImageRequestMarshaller.java
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/**
 * Describes the ID format settings for your resources on a per-region basis, for example, to view which resource
 * types are enabled for longer IDs. This request only returns information about resource types whose ID formats can
 * be modified; it does not return information about other resource types.
 * </p>
 * <p>
 * The following resource types support longer IDs: <code>instance</code> | <code>reservation</code> | 
 * <code>snapshot</code> | <code>volume</code>.
 * </p>
 * 
 * These settings apply to the IAM user who makes the request; they do not apply to the entire AWS account. By 
 * default, an IAM user defaults to the same settings as the root user, unless they explicitly override the settings 
 * by running the <a>ModifyIdFormat</a> command. Resources created with longer IDs are visible to all IAM users,
 * regardless of these settings and provided that they have permission to use the relevant <code>Describe</code>
 * command for the resource type.
 * </p>
 * *
 * @param describeIdFormatRequest
 * Contains the parameters for DescribeIdFormat.
 * @return A Java Future containing the result of the DescribeIdFormat operation returned by the service.
 * @sample AmazonEC2Async.DescribeIdFormat
 * @see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/DescribeIdFormat" target="_top">AWS API Documentation</a>
 */

/**
 * Modifies the ID format for the specified resource on a per-region basis. You can specify that resources should 
 * receive longer IDs (17-character IDs) when they are created. The following resource types support longer IDs:
 * <code>instance</code> | <code>reservation</code> | <code>snapshot</code> | <code>volume</code>.
 */
This setting applies to the IAM user who makes the request; it does not apply to the entire AWS account. By default, an IAM user defaults to the same settings as the root user. If you're using this action as the root user, then these settings apply to the entire account, unless an IAM user explicitly overrides these settings for themselves. For more information, see <a href="http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/resource-ids.html">Resource IDs</a> in the Amazon Elastic Compute Cloud User Guide.

Resources created with longer IDs are visible to all IAM roles and users, regardless of these settings and provided that they have permission to use the relevant <code>Describe</code> command for the resource type.

@sample AmazonEC2Async.ModifyIdFormat

@see <a href="http://docs.aws.amazon.com/goto/WebAPI/ec2-2016-11-15/ModifyIdFormat">AWS API Documentation</a>

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/opt/cola/permits/1137623454_1614109446.5/0/aws-java-sdk-ec2-1-11-201-sources-1-jar/com/amazonaws/services/ec2/AmazonEC2Async.java

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1.235 rsync 3.1.2 4.el7

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1.236 ms 2.1.1

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1.237 tcp-dump 4.9.2-4.el7_7.1

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1.238 zlib 1.2.3

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version 1.2.11, January 15th, 2017

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1.239 spring-boot-starter-jersey

1.5.18.RELEASE

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1.240 gir1.2-gdkpixbuf-2.0 2.24.0

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Author-email: jplana@gmail.com
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Description: python-etcd documentation

A python client for Etcd https://github.com/coreos/etcd

Official documentation: http://python-etcd.readthedocs.org/

.. image:: https://travis-ci.org/jplana/python-etcd.png?branch=master
   :target: https://travis-ci.org/jplana/python-etcd

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   :target: https://coveralls.io/github/jplana/python-etcd?branch=master

Installation

Pre-requirements

This version of python-etcd will only work correctly with the etcd server version 2.0.x or later. If you are running an older version of etcd, please use python-etcd 0.3.3 or earlier.

This client is known to work with python 2.7 and with python 3.3 or above. It is not tested or expected to work in more outdated versions of python.

From source

.. code:: bash
$ python setup.py install

Usage
-----

The basic methods of the client have changed compared to previous versions, to reflect the new API structure; however a compatibility layer has been maintained so that you don't necessarily need to rewrite all your existing code.

Create a client object
~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    import etcd

    client = etcd.Client() # this will create a client against etcd server running on localhost on port 4001
    client = etcd.Client(port=4002)
    client = etcd.Client(host='127.0.0.1', port=4003)
    client = etcd.Client(host=('127.0.0.1', 4001), ('127.0.0.1', 4002), ('127.0.0.1', 4003))
    client = etcd.Client(host='127.0.0.1', port=4003, allow_redirect=False) # wont let you run sensitive commands on non-leader machines, default is true
    # If you have defined a SRV record for _etcd._tcp.example.com pointing to the clients
    client = etcd.Client(srv_domain='example.com', protocol='https')
    # create a client against https://api.example.com:443/etcd
    client = etcd.Client(host='api.example.com', protocol='https', port=443, version_prefix='/etcd')

Write a key
~~~~~~~~~~

.. code:: python

    client.write('/nodes/n1', 1)
    # with ttl
    client.write('/nodes/n2', 2, ttl=4)  # sets the ttl to 4 seconds
    client.set('/nodes/n2', 1) # Equivalent, for compatibility reasons.

Read a key
~~~~~~~~~~

.. code:: python

    client.read('/nodes/n2').value
    client.read('/nodes', recursive=True) #get all the values of a directory, recursively.
    client.get('/nodes/n2').value

    # raises etcd.EtcdKeyNotFound when key not found
try:
    client.read('/invalid/path')
except etcd.EtcdKeyNotFound:
    # do something
    print "error"

Delete a key
~~~~~~~~~~~~

.. code:: python

    client.delete('/nodes/n1')

Atomic Compare and Swap
~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.write('/nodes/n2', 2, prevValue = 4) # will set /nodes/n2 's value to 2 only if its previous value was 4 and
    client.write('/nodes/n2', 2, prevExist = False) # will set /nodes/n2 's value to 2 only if the key did not exist before
    client.write('/nodes/n2', 2, prevIndex = 30) # will set /nodes/n2 's value to 2 only if the key was last modified at index 30
    client.test_and_set('/nodes/n2', 2, 4) # equivalent to client.write('/nodes/n2', 2, prevValue = 4)

You can also atomically update a result:

.. code:: python

    result = client.read('/foo')
    print(result.value) # bar
    result.value += u'bar'
    updated = client.update(result) # if any other client wrote '/foo' in the meantime this will fail
    print(updated.value) # barbar

Watch a key
~~~~~~~~~~~

.. code:: python

    client.read('/nodes/n1', wait = True) # will wait till the key is changed, and return once its changed
    client.read('/nodes/n1', wait = True, timeout=30) # will wait till the key is changed, and return once its changed, or exit with an exception after 30 seconds.
    client.read('/nodes/n1', wait = True, waitIndex = 10) # get all changes on this key starting from index 10
    client.watch('/nodes/n1') # equivalent to client.read('/nodes/n1', wait = True)
    client.watch('/nodes/n1', index = 10)
Refreshing key TTL
~~~~~~~~~~~~~~~~~~

(Since etcd 2.3.0) Keys in etcd can be refreshed without notifying current watchers.

This can be achieved by setting the refresh to true when updating a TTL.

You cannot update the value of a key when refreshing it.

.. code:: python

    client.write('/nodes/n1', 'value', ttl=30)  # sets the ttl to 30 seconds
    client.refresh('/nodes/n1', ttl=600)  # refresh ttl to 600 seconds, without notifying current watchers

Locking module
~~~~~~~~~~~~~~

.. code:: python

    # Initialize the lock object:
    # NOTE: this does not acquire a lock yet
    client = etcd.Client()
    # Or you can custom lock prefix, default is '/_locks/' if you are using HEAD
    client = etcd.Client(lock_prefix='/my_etcd_root/_locks')
    lock = etcd.Lock(client, 'my_lock_name')

    # Use the lock object:
    lock.acquire(blocking=True, # will block until the lock is acquired
                 lock_ttl=None) # lock will live until we release it
    lock.is_acquired  # True
    lock.acquire(lock_ttl=60) # renew a lock
    lock.release() # release an existing lock
    lock.is_acquired  # False

    # The lock object may also be used as a context manager:
    client = etcd.Client()
    with etcd.Lock(client, 'customer1') as my_lock:
        do_stuff()
        my_lock.is_acquired  # True
        my_lock.acquire(lock_ttl=60)
        my_lock.is_acquired  # False

Get machines in the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python
client.machines

Get leader of the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.leader

Generate a sequential key in a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    x = client.write("/dir/name", "value", append=True)
    print("generated key: " + x.key)
    print("stored value: " + x.value)

List contents of a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    # stick a couple values in the directory
    client.write("/dir/name", "value1", append=True)
    client.write("/dir/name", "value2", append=True)

    directory = client.get("/dir/name")

    # loop through directory children
    for result in directory.children:
        print(result.key + ": " + result.value)

    # or just get the first child value
    print(directory.children.next().value)

Development setup
------------------

To create a buildout,

.. code:: bash

    $ python bootstrap.py
    $ bin/buildout

to test you should have etcd available in your system path:
.. code:: bash

    $ bin/test

to generate documentation,

.. code:: bash

    $ cd docs
    $ make

Release HOWTO
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To make a release

1) Update release date/version in NEWS.txt and setup.py
2) Run 'python setup.py sdist'
3) Test the generated source distribution in dist/
4) Upload to PyPI: 'python setup.py sdist register upload'

News
=====

0.4.5
-----

*Release date: 3-Mar-2017*

* Remove dnspython2/3 requirement
* Change property name setter in lock
* Fixed acl tests
* Added version/cluster_version properties to client
* Fixes in lock when used as context manager
* Fixed improper usage of urllib3 exceptions
* Minor fixes for error classes
* In lock return modifiedIndex to watch changes
* In lock fix context manager exception handling
* Improvements to the documentation
* Remove _base_uri only after refresh from cluster
* Avoid double update of _machines_cache

0.4.4
-----

*Release date: 10-Jan-2017*

* Fix some tests
* Use sys.version_info tuple, instead of named tuple
* Improve & fix documentation
* Fix python3 specific problem when blocking on contented lock
* Add refresh key method
* Add custom lock prefix support

0.4.3
-----

*Release date: 14-Dec-2015*

* Fix check for parameters in case of connection error
* Python 3.5 compatibility and general python3 cleanups
* Added authentication and module for managing ACLs
* Added srv record-based DNS discovery
* Fixed (again) logging of cluster id changes
* Fixed leader lookup
* Properly retry request on exception
* Client: clean up open connections when deleting

0.4.2
-----

*Release date: 8-Oct-2015*

* Fixed lock documentation
* Fixed lock sequences due to etcd 2.2 change
* Better exception management during response processing
* Fixed logging of cluster ID changes
* Fixed subtree results
* Do not check cluster ID if etcd responses don't contain the ID
* Added a cause to EtcdConnectionFailed

0.4.1
-----

*Release date: 1-Aug-2015*

* Added client-side leader election
* Added stats endpoints
* Added logging
* Better exception handling
* Check for cluster ID on each request
* Added etcd.Client.members and fixed etcd.Client.leader
* Removed locking and election etcd support
* Allow the use of etcd proxies with reconnections
* Implement pop: Remove key from etc and return the corresponding value.
* Eternal watcher can be now recursive
* Fix etcd.Client machines
* Do not send parameters with 'None' value to etcd
* Support ttl=0 in write.
* Moved pyOpenSSL into test requirements.
* Always set certificate information so redirects from http to https work.

0.3.3
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* Release date: 12-Apr-2015*

* Forward leaves_only value in get_subtree() recursive calls
* Fix README prevExists->prevExist
* Added configurable version_prefix
* Added support for recursive watch
* Better error handling support (more detailed exceptions)
* Fixed some unreliable tests

0.3.2
-----
* Release date: 4-Aug-2014*

* Fixed generated documentation version.

0.3.1
-----
* Release date: 4-Aug-2014*

* Added consisten read option
* Fixed timeout parameter in read()
* Added atomic delete parameter support
* Fixed delete behaviour
* Added update method that allows atomic updated on results
* Fixed checks on write()
* Added leaves generator to EtcdResult and get_subtree for recursive fetch
* Added etcd_index to EtcdResult
* Changed ethernal -> eternal
* Updated urllib3 & pyOpenSSL libraries
* Several performance fixes
* Better parsing of etcd_index and raft_index
* Removed duplicated tests
* Added several integration and unit tests
* Use etcd v0.3.0 in travis
* Execute test using `python setup.py test` and nose
0.3.0
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*Release date: 18-Jan-2014*

* API v2 support
* Python 3.3 compatibility

0.2.1
-----

*Release data: 30-Nov-2013*

* SSL support
* Added support for subdirectories in results.
* Improve test
* Added support for reconnections, allowing death node tolerance.

0.2.0
-----

*Release date: 30-Sep-2013*

* Allow fetching of multiple keys (sub-nodes)

0.1
---

*Release date: 18-Sep-2013*

* Initial release

Keywords: etcd raft distributed log api client
Platform: UNKNOWN
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: Software Development :: Libraries
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Database :: Front-Ends

Found in path(s):
* /opt/cola/permits/1112217808_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/src/python_etcd.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

from setuptools import setup, find_packages
import sys, os

here = os.path.abspath(os.path.dirname(__file__))
README = open(os.path.join(here, 'README.rst')).read()
NEWS = open(os.path.join(here, 'NEWS.txt')).read()

version = '0.4.5'

install_requires = [
    'urllib3>=1.7.1',
    'dnspython>=1.13.0'
]

test_requires = [
    'mock',
    'nose',
    'pyOpenSSL>=0.14'
]

setup(
    name='python-etcd',
    version=version,
    description="A python client for etcd",
    long_description=README + '

' + NEWS,
    classifiers=[
        "Topic :: System :: Distributed Computing",
        "Topic :: Software Development :: Libraries",
        "License :: OSI Approved :: MIT License",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
        "Topic :: Database :: Front-Ends",
    ],
    keywords='etcd raft distributed log api client',
    author='Jose Plana',
    author_email='jplana@gmail.com',
    url='http://github.com/jplana/python-etcd',
    license='MIT',
    packages=find_packages('src'),
    package_dir = {'': 'src'},
    include_package_data=True,
    zip_safe=False,
    install_requires=install_requires,
    tests_require=test_requires,
1.252 hk2 2.6.1

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1.261 mute-stream 0.0.4

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1.263 libtool 2.4.2 22.el7_3
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1.267 stringprep 1.1

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1.268 hivex 1.3.10 6.9.el7
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Because of this blurred distinction, using the ordinary General
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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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a) Accompany the work with the complete corresponding
Open Source Used In NFVIS Branch Virtualization 4.8.1  2077

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Appendix: How to Apply These Terms to Your New Libraries

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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!

This part of the FAQ is based on a series of questions we asked the FSF
to understand how the GPL works and how patents affects the GPL. These
questions were answered by the <ulink url="http://www.fsf.org/">FSF lawyers</ulink>, so we view them as the
final interpretation on how the GPL and LGPL interact with patents in our
opinion. This consultancy was paid for by
<ulink url="http://www.fluendo.com/">Fluendo</ulink>
in order to obtain clear and quotable answers. These answers were certified
by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

Can someone distribute the combination of
<GStreamer, the LGPL library><MyPlayer, a GPL playback application><The binary-only Sorenson decoder>
together in one distribution/operating system? If not, what
needs to be changed to make this possible?
This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

<para>
If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.
</para>

Note: MyPlayer is a completely fictitious application at the time of writing.

<para>
</para>

<answer>
<para>
Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.
</para>
</answer>

<qandaentry>
<question id="legal-gpl-program">
<para>
If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in?
</para>
</question>

<answer>
<para>
</para>
</answer>
</qandaentry>
You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway? If he/she visits the US, can he/she be arrested?

Yes, he can. No, there are no criminal penalties for patent infringement in the US.

Can someone from the US distribute software covered by US patents under the GPL to people in Norway? To people in the US?

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.
There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project?

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

The GPL and LGPL say (sections 7 and 11):

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.

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents?

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.
having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?

</para>
</question>

<answer>
<para>No.</para>
</answer>
</qandaentry>

<qandaentry>
<question id="legal-gpl-patent-distribution">
<para>Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3?</para>

</question>

<answer>
<para>The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.</para>
<para>If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.</para>
</answer>
</qandaentry>
</qandaset>

1.270 broadway 0.3.6

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1.271 readable-stream 2.3.6

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```text
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1.272 postfix 2.10.1
1.272.1 Available under license :
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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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```
1.273 validate-npm-package-license 3.0.1
1.273.1 Available under license:

validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
```
validForNewPackages: true,
validForOldPackages: true,
spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
valid('Apache 2.0'),
{
validForOldPackages: false,
validForNewPackages: false,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
'"UNLICENSED", or ' +
"SEE LICENSE IN <filename>". ' +
'license is similar to the valid expression "Apache-2.0"
]
}
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
valid('(GPL-3.0 OR BSD-2-Clause)'),
validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
'license should be ' +
```
'a valid SPDX license expression (without "LicenseRef"), ' +
"UNLICENSED", or ' +
"SEE LICENSE IN <filename>"'
];
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```
```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
```
```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

SPDX:Apache-2.0

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Version 2.0, January 2004

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1.274 fontconfig 2.10.95-11.el7
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1.275 libxfont 2.0.1 2.el7

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   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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1.276 syndtr-gocapability 0.0.0-20180916011248-d98352740cb2

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1.277 lua 5.2.2

1.278 connected-domain 1.0.0

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1.279 negotiator 0.6.2

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1.280 checker-qual 2.5.2
1.281 jersey-container-servlet-core 2.29.1

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* https://github.com/eclipse-ee4j/jersey

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import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.LinkedHashMap;
import java.util.Map;

public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }
}
public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonIgnoreGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonIgnoreSetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

@override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    return result;
}

@override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    if (name == null ? obj.name != null : !name.equals(obj.name)) {
        return false;
    }
    if (url == null ? obj.url != null : !url.equals(obj.url)) {
        return false;
    }
    return true;
}

public boolean equalsIgnoreVendorExtensions(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    if (name == null ? obj.name != null : !name.equals(obj.name)) {
        return false;
    }
    if (url == null ? obj.url != null : !url.equals(obj.url)) {
        return false;
    }
    return true;
}
return false;
}
License other = (License) obj;
if (name == null) {
    if (other.name != null) {
        return false;
    }
} else if (!name.equals(other.name)) {
    return false;
}
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}
return true;
}

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 */
package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 *
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}

1.286 hamcrest 1.3

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<body bgcolor="#FFFFFF" vlink="#800000">

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
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* Marc Schlaich <marc.schlaich@gmail.com>
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  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovskiy@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen 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

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tllynn <https://github.com/tllynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@gmail.com>
* App Engine environment tests.
* Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```.
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```.
  * Creation of ```HTTPConnectionPool.ResponseCls```.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

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* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite
* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HttpResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bug fix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    `HTTPConnectionPool._make_request()`, also for `BaseExceptions`.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * Non-multipart encoding for POST requests

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* brandon-rhodes <http://rhodesmill.org/brandon>
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* Thomas Weischuh <thomas@t-8ch.de>
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  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support
* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeadersDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url
* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen 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

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.
* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.295 extsprintf 1.0.2
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1.296 libjpeg 6b

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

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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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.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.

*.
  Unix-style man pages for programs (same info as usage.doc).
wizard.doc  Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc  How to use the JPEG library in your own programs.
example.c   Sample code for calling the JPEG library.
structure.doc   Overview of the JPEG library's internal structure.
filelist.doc   Road map of IJG files.
coderules.doc  Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful 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 compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. 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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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, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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
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REFERENCES
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We highly 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 ftp://ftp.uu.net/graphics/jpeg/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 JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified
In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The 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.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300,  fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/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 ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. 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. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. 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: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NetPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.
In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.297 grub2 2.02-0.87.0.13.el7_9.7

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1.306 jackson-databind 2.10.4
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 */
```

Found in path(s):
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/config/PluginRegistriesBeanDefinitionRegistrar.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/PluginRegistrySupport.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/config/EnablePluginRegistries.java
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 */

Found in path(s):
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/OrderAwarePluginRegistry.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/config/PluginListDefinitionParser.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/config/PluginNamespaceHandler.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/SimplePluginRegistry.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/config/PluginRegistryDefinitionParser.java
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 */
1.308 typing 3.7.4.3

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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.

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

Found in path(s):
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-jar/org/springframework/plugin/core/support/BeanListFactoryBean.java
0.9.0 thru 1.2  1991-1995  CWI  yes
1.3 thru 1.5.2  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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1.309 util-linux 2.23.2 52.el7
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*/

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 bsd.img

---layout--------
<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts_dev</strong></td>
<td>1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83 Linux</td>
</tr>
<tr>
<td><strong>ts_dev</strong></td>
<td>2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5 FreeBSD</td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts_dev</strong></td>
<td>10 MB</td>
<td>10 MB</td>
<td>20480</td>
<td>512</td>
<td>512 bytes</td>
</tr>
<tr>
<td>Units</td>
<td>sectors of 1 * 512 = 512 bytes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sector size (logical/physical): 512 bytes / 512 bytes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I/O size (minimum/optimal): 512 bytes / 512 bytes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk label type: dos</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk identifier: 0x00000001</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create 2nd primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts_dev</strong></td>
<td>10 MB</td>
<td>10 MB</td>
<td>20480</td>
<td>512</td>
<td>512 bytes</td>
</tr>
<tr>
<td>Units</td>
<td>sectors of 1 * 512 = 512 bytes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sector size (logical/physical): 512 bytes / 512 bytes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I/O size (minimum/optimal): 512 bytes / 512 bytes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk label type: dos</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disk identifier: 0x00000001</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 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:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0 0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

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):

<table>
<thead>
<tr>
<th>0</th>
<th>unused</th>
<th>5</th>
<th>4.1BSD</th>
<th>9</th>
<th>4.4LFS</th>
<th>d</th>
<th>boot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
<td>unknown</td>
<td>e</td>
<td>ADOS</td>
</tr>
</tbody>
</table>
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):

1.310 squashfs-tools 4.2
1.310.1 Available under license:

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1.312 ncurses 6.1

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use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! { 
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );

    fn acquire_async_future(
        &self,
    ) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

    fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

    fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );
fn release_async_future(
    &self,
) -> Pin<Box<dyn FutureOutput = Result<(), glib::Error> + 'static>>;

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    ) {
        let user_data: Box<Q> = Box::new(callback);
        unsafe extern "C" fn acquire_async_trampoline<
            Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
            _source_object: *mut gobject::GObject,
            res: *mut gio::GAsyncResult,
            user_data: glib::gpointer,
        >(
            _source_object: *mut gobject::GObject,
            res: *mut gio::GAsyncResult,
            user_data: glib::gpointer,
        ) {
            let mut error = ptr::null_mut();
            let _ = gio::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
            let result = if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    ) {
        let user_data: Box<Q> = Box::new(callback);
        unsafe extern "C" fn acquire_async_trampoline<
            Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
            _source_object: *mut gobject::GObject,
            res: *mut gio::GAsyncResult,
            user_data: glib::gpointer,
        >(
            _source_object: *mut gobject::GObject,
            res: *mut gio::GAsyncResult,
            user_data: glib::gpointer,
        ) {
            let mut error = ptr::null_mut();
            let _ = gio::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
            let result = if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }
}
let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
callback(result);
}
let callback = acquire_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_acquire_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref()).to_glib_none().0,
        Some(callback),
        Box_::into_raw(user_data) as *mut _,
    );
}
}

fn acquire_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.acquire_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });

        cancellable
    }));
}

fn get_allowed(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_allowed(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}
fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(
            self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box<_Q> = Box::new(callback);
    unsafe extern "C" fn release_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
    >(source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release_finish(source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
    _source_object = *mut gobject_sys::GObject,
    res = *mut gio_sys::GAsyncResult,
    user_data = glib_sys::gpointer,
)
fn release_async_future(
    &self,
) -> Pin<Box<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box::<pin::crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });
        cancellable
    }))
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box_<F> = Box::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::allowed" as_ptr() as *const _,
            Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
            Box::<Box_<F>>::into_raw(f),
        )
    }
}
fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box_<F> = Box_::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-acquire\0".as_ptr() as *const _,
            Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
            Box_::into_raw(f),
        )
    }
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box_<F> = Box_::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-release\0".as_ptr() as *const _,
            Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
            Box_::into_raw(f),
        )
    }
}
impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        write!(f, "Permission")
    }
}

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* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT
  * chrystn@fsfe.org
  * dfberger@users.noreply.github.com
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#include <sys/sys_poll.h>

#ifdef HAVE_POLL && !defined(HAVE_POLL_H)
#ifndef COMPAT_POLL_H

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef COMPAT_POLL_H
#endif

#endif

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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef COMPAT_POLL_H

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef COMPAT_POLL_H
#endif

#endif

#ifndef COMPAT_POLL_H
#endif
typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#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 *, nfds_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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*
*/

#else _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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*/

#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 */
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#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 */

/*	$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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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 nfds_t;

#define POLLIN0x0001
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLWRBAND0x0080
#if 0
/* the following are currently not implemented */
#define POLLPRIO0x0002
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLRD0x0004
#define POLLNORMPOLLRD
#define POLLWRNORM POLLHUP
#define POLLWRBAND0x0080
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
Wed, 13 Jan 2010 01:08:49 +0300.

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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

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 * */
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-mode2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.82017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
Sets an explicit umask 2 to be applied to newly-created files and directories, instead of the user's default mask.

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.

On some systems,

 /* Version of client */
 static u_int version;

/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
/* SSH2_FXP_INIT received */
static int init_done;

if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
@@ -679,6 +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)
printf(stderr,
    "usage: %s [-ehR] [-d start_directory] [-f log_facility]"
    "[-l log_level] [-P blacklisted_requests]"
-    "[-p whitelisted_requests] [-u umask]"
+    "[-p whitelisted_requests] [-u umask] [-f force_file_perms]"
    " %s -Q protocol_feature"
    __progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
    pw = pwcopy(user_pw);

while (!skipargs && (ch = getopt(argc, argv,
+    "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();
1.317 getpass 0.1.6
1.317.1 Available under license :

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1.318 http-errors 1.4.0
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1.319 pinentry 0.8.1-17.el7

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1.329 bcel 5.2

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1.330 python-dateutil 1.5

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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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Christian Hammers <ch@debian.org>.

The MariaDB packages were initally made by http://ourdelta.org/, and
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* /opt/ws_local/PERMITS_SQL/1069127233_1594491615.74/0/kubernetes-model-common-4-10-2-sources-jar/io/fabric8/kubernetes/model/annotation/ApiGroup.java
* /opt/ws_local/PERMITS_SQL/1069127233_1594491615.74/0/kubernetes-model-common-4-10-2-sources-jar/io/fabric8/kubernetes/model/annotation/ApiVersion.java
* /opt/ws_local/PERMITS_SQL/1069127233_1594491615.74/0/kubernetes-model-common-4-10-2-sources-jar/io/fabric8/kubernetes/model/util/Helper.java
* /opt/ws_local/PERMITS_SQL/1069127233_1594491615.74/0/kubernetes-model-common-4-10-2-sources-jar/io/fabric8/kubernetes/model/annotation/PackageSuffix.java

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1.343 extend 3.0.0

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1.345 tomcat-jasper 7.0.76

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* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/nlri/evpn/mac.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/nlri/evpn/nlri.py
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* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/vendoring/ordereddict.py
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* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/nlri/ipvpn.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/configuration/static/route.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/community/initial/communities.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/attributes.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/configuration/core/tokeniser.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/configuration/operational/__init__.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/configuration/operational/___init___py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/rib/change.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/configuration/core/tokeniser.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/application/flow.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/configuration/capability.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-
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4.0.10/lib/exabgp/bgp/message/update/attribute/community/extended/origin.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/nlri/qualifier/esi.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/community/extended/encapsulation.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/nlri/qualifier/etag.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/nlri/qualifier/mac.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/nlri/rtc.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/community/extended/l2info.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/pmsi.py

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from exabgp.bgp.message.update.nlri.bgpls.tlvs.node import NodeDescriptor
from exabgp.bgp.message.update.nlri.bgpls.tlvs.neighaddr import NeighAddr
from exabgp.bgp.message.update.nlri.bgpls.tlvs.ifaceaddr import IfaceAddr
from exabgp.bgp.message.update.nlri.bgpls.tlvs.linkid import LinkIdentifier
from exabgp.bgp.message.update.nlri.bgpls.tlvs.ipreach import IpReach
from exabgp.bgp.message.update.nlri.bgpls.tlvs.ospfroute import OspfRoute

Found in path(s):
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/nlri/bgpls/tlvs/__init__.py

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* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/link/rsvpbw.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/prefix/ospfaddr.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/node/srcap.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/link/unrsvpbw.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/prefix/igpflags.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/prefix/prefixmetric.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/prefix/__init__.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/node/opaque.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/bgp/message/update/attribute/bgpls/node/srigpprefixattr.py

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Introduction
============

ExaBGP allows engineers to control their network from commodity servers. Think of it as Software Defined Networking using BGP.

It can be used to announce ipv4, ipv6, vpn or flow routes (for DDOS protection) from its configuration file(s). ExaBGP can also transform BGP messages into friendly plain text or JSON which can be easily manipulate by scripts and report peer announcements.

Use cases include
-----------------
- sql backed `looking glass <https://code.google.com/p/gixlg/wiki/sample_maps>`_ with prefix routing visualisation
- `anycasted <http://blog.iweb-hosting.co.uk/blog/2012/01/27/using-bgp-to-serve-high-availability-dns>`_ services

Installation
============

Prerequisites
------------

ExaBGP requires python 2.7 or 3.x. It has no external dependencies.

Using pip
--------

#. Use pip to install the packages:

::
pip install -U exabgp
exabgp --help

Without installation
---------------------
::
curl -L https://github.com/Exa-Networks/exabgp/archive/4.0.10.tar.gz | tar xz
./exabgp-4.0.10/sbin/exabgp --help

Feedback and getting involved
=================================
- Gitter: https://gitter.im/Exa-Networks/exabgp
- #exabgp: irc://irc.freenode.net:6667/exabgp
- Google +: https://plus.google.com/u/0/communities/108249711110699351497
- Twitter: https://twitter.com/#!/search/exabgp
- Mailing list: http://groups.google.com/group/exabgp-users
- Issue tracker: https://github.com/Exa-Networks/exabgp/issues
- Code Repository: https://github.com/Exa-Networks/exabgp

Keywords: BGP routing SDN FlowSpec HA
Platform: macosx-10.13-x86_64
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: POSIX
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: Microsoft :: Windows
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet

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* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10 PKG-INFO
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp.egg-info/PKG-INFO

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* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/reactor/delay.py
* /opt/cola/permits/1154644401_1618870931.38/0/exabgp-4-0-10-tar-gz/exabgp-4.0.10/lib/exabgp/reactor/keepalive.py

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1.349 go-md2man 2.0.0-20190314233015-f79a8a8ca69d
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1.350 guava 20.0

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1.351 kubernetes-model 4.10.2

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1.352 csv-stringify 0.0.6

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1.354 libcap 2.22 9.el7

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1.361 es6-iterator 2.0.0

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1.362 libdrm 2.4.83 2.el7

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1.365 javassist 3.21.0-GA

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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtMethod.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/GeneratedType.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/FieldDeclaration.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ASTList.java
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frylinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
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
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Mnier, Loc
Moffat, Darren
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Buor-en, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
1.374 jersey-container-servlet-core 2.25.1
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1.376 hk2-config 2.5.0-b32

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1.382 ganymed-ssh2 261

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* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/core/userdetails/jdbc/JdbcDaoImpl.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/access/SecurityMetadataSource.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/access/vote/AuthenticatedVoter.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/access/AccessDecisionVoter.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/core/context/SecurityContext.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/core/userdetails/UserDetails.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/authentication/TestingAuthenticationToken.java
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/core/session/SessionRegistry.java

* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources.jar/org/springframework/security/core/GrantedAuthority.java
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@ author Ben Alex

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*/
/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources-
  jar/org/springframework/security/access/PermissionEvaluator.java
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* @author Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/

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 */

/*
 * Determines if the { @link #getAuthentication() } has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",}
"write", etc).
* @return true if permission is granted to the [@link #getAuthentication()], else false
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070861410_1594759179.92/0/spring-security-core-5-2-4-release-sources-jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
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1.392 docker-java 3.1.2

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* /opt/cola/permits/1137623225_1614109455.62/0/spring-boot-autoconfigure-2-1-11-release-sources-2-jar/org/springframework/boot/autoconfigure/validation/PrimaryDefaultValidatorPostProcessor.java
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)

## 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) $< \n| sed "s/\(*\$\*\)/\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "s/\(*\$\*\)/\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@’

## Versioned libraries rules
1.402 v8 3.28.71.20

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Tests included here are based on build output generated by the six-speed benchmark suite.

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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 the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Name: coverage
Version: 3.6b3
Summary: Code coverage measurement for Python
Home-page: http://nedbatchelder.com/code/coverage/3.6b3
Author: Ned Batchelder and others
Author-email: ned@nedbatchelder.com
License: BSD
Description: Coverage.py measures code coverage, typically during test execution. It uses the code analysis tools and tracing hooks provided in the Python standard library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.3, and PyPy 1.9.
Documentation is at `nedbatchelder.com <http://nedbatchelder.com/code/coverage/3.6b3>`_. Code repository and issue tracker are at `bitbucket.org <http://bitbucket.org/ned/coveragepy>`_.

New in 3.6: ``--fail-under```, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files can be reported.

New in 3.3: .coveragerc files.

New in 3.2: Branch coverage!

Keywords: code coverage testing
Platform: UNKNOWN
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Quality Assurance
Classifier: Topic :: Software Development :: Testing
Classifier: Development Status :: 4 - Beta

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage.egg-info/PKG-INFO
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* http://jquery.com/
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* 
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 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
 * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link [http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html]
 */

* Javascript Diff Algorithm
* By John Resig (http://ejohn.org/)
* Modified by Chu Alan "sprite"
* Released under the MIT license.
* More Info:
* http://ejohn.org/projects/javascript-diff-algorithm/

* Usage: QUnit.diff(expected, actual)

* QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown</del> fox <del>jumped</del><ins>jumps</ins> over"

*/

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.js
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* http://github.com/jquery/jquery-tmpl
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1.431 libxml 2.9.9

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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

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1.438 buffer-from 1.1.1

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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() {

    }
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 ª " + tags[i].text() + " </dt>\") + "");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}
}

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

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

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

public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */

    private static final long serialVersionUID = -5636570222231596674L;

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

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

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

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

/**
 * Check to see if this object equals obj. Use <code>equals</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:
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

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Version 3, 29 June 2007

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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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*L
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<signature of Ty Coon>, 1 April 1990
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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#
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# any later version.

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

import os
import re
import sys
import time
import subprocess

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

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

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

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

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

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symmlink-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 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]opyrights+\([Cc]\)'  
    '[Cc]opyrights+%'s  
    '[Cc]opyrights+&copy;'  
    '[Cc]opyrights+@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 + \|integrate))?')

# 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):
    
    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:
            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
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
    self.errors.report (pathname,
                        'unrecognised copyright: %s'
                        % line.strip())
    lines.append (line)
    line = next_line

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

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

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

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

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', """quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)
def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

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

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

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

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

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

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

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

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

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set ([
            # 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 woed 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)
        canonic_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canonic_fsf)
        self.add_package_author ('Free Software Foundation.', canonic_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canonic_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canonic_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canonic_fsf)
        self.add_package_author ('The Free Software Foundation', canonic_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canonic_fsf)
        self.add_package_author ('Software Foundation, Inc.', canonic_fsf)
        self.add_package_author ('Software Foundation, Inc.', canonic_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
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 ('libquadmath')
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libsanitiser')
# 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',
    'libdecmnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCC CmdLine().main()

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

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign
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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

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

@display
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@appendixsubsec Preamble

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Local Variables:
ispell-local-pdict: "ispell-dict"
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 (dossier@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.mit.edu.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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/**
 * 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 is the same as this 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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1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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/* Use the Sequent Symmetry assembler syntax. */

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

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

#define LPREFIX "L"

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

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

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

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

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

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

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

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

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
  ( fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),

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

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

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

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

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

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

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

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

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

#define USER_LABEL_PREFIX "_
"

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

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

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# update-license

This is a small tool that updates the license header for Uber's open source Golang files.

## Installation

```bash
go get go.uber.org/tools/update-license
```

## Usage

```bash
update-license go_files...
```

## Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
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tomb - support for clean goroutine termination in Go.

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package api

import (
    "io/ioutil"
    "strings"
    "time"
)

type License struct {
    // The unique identifier of the license
    LicenseID string `json:"license_id"`

    // The customer ID associated with the license
    CustomerID string `json:"customer_id"`

    // If set, an identifier that should be used to lock the license to a
    // particular site, cluster, etc.
    InstallationID string `json:"installation_id"`

    // The time at which the license was issued
    IssueTime time.Time `json:"issue_time"`

    // The time at which the license starts being valid
    StartTime time.Time `json:"start_time"`

    // The time after which the license expires
    ExpirationTime time.Time `json:"expiration_time"`

    // The time at which the license ceases to function and can
    // no longer be used in any capacity
    TerminationTime time.Time `json:"termination_time""}
// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// List of features enabled by the license
Features []string `json:"features"

}
type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
r.params.Set("signed", "1")
r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    } defer resp.Body.Close()

data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
}
r.setWriteOptions(opts)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return nil, err
}
def resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
def resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

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import (  
    "encoding/json"
    
    "github.com/go-openapi/swag"
)

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {  
    LicenseProps  
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {  
    Name string `json:"name.omitempty""
    URL string `json:"url.omitempty""
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return nil
}
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/google/renameio - https://github.com/google/renameio

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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* gogrep - https://github.com/mvdan/gogrep

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*gosmith* - https://github.com/dvyukov/gosmith

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Gocheck - A rich testing framework for Go

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goproperties - properties file decoder for Go

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Protocol Buffers for Go with Gadgets

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

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

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1.459 cookie-signature 1.0.6
1.459.1 Available under license:
No license file was found, but licenses were detected in source scan.

# cookie-signature

Sign and unsign cookies.

```js
```
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGsIZ5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```

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util-linux 2.23.0

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* 2 7680 16383   8704 4.3M      8f8378c0-02
* 5 7936 12799   4864 2.4M
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1.463 oauth-sign 0.8.2
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1.465 mime-db 1.12.0
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1.466 curl 7.29.0 46.el7
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libcurl http://curl.haxx.se/docs/copyright.html

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GnuTLS http://www.gnults.org/

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

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

NSS  http://www.mozilla.org/projects/security/pki/nss/

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axTLS  http://axtls.sourceforge.net/

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

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

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

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

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

krb4

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

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

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

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

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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.

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

1.467 llvm 5.0.0-3.el7

1.467.1 Available under license :

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s 
; Test that early if conversion produces LOCR with operands of the right
; register classes.
define void @autogen_SD4739(i8*) {
 ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
 BB:
   %L34 = load i8, i8* %0
   %Cmp56 = icmp sgt i8 undef, %L34
   br label %CF246

CF246: ; preds = %CF246, %BB
   %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
   br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
   store i8 %Sl163, i8* %0
   br label %CF248
}

; NOTE: Assertions have been autogenerated by
; utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
; FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
; legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: add256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
 ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
 ; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
 ; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
 ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
 ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq
   %d = load <16 x i32>, <16 x i32>* %a
   %e = load <16 x i32>, <16 x i32>* %b
   %f = add <16 x i32> %d, %e
   store <16 x i32> %f, <16 x i32>* %c
   ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: add512:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
 ; CHECK-NEXT:    vmovdqa64 32(%rdi), %zmm1
 ; CHECK-NEXT:    vpadd (%rsi), %zmm0, %zmm0
 ; CHECK-NEXT:    vpadd 32(%rsi), %zmm1, %zmm1
 ; CHECK-NEXT:    vmovdqa64 %zmm1, 32(%rdx)
 ; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
 ; CHECK-NEXT:    vzeroupper
 ; CHECK-NEXT:    retq
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
  CHECK-LABEL: avg_v64i8_256:
  CHECK:     # %bb.0:
  CHECK-NEXT: vmovdqa (%rsi), %ymm0
  CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
  CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
  CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
  CHECK-NEXT: vmovdqu %ymm1, (%rax)
  CHECK-NEXT: vmovdqu %ymm0, (%rax)
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
  %1 = load <64 x i8>, <64 x i8>* %a
  %2 = load <64 x i8>, <64 x i8>* %b
  %3 = zext <64 x i8> %1 to <64 x i32>
  %4 = zext <64 x i8> %2 to <64 x i32>
  %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
  %6 = add nuw nsw <64 x i32> %5, %4
  %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
  %8 = trunc <64 x i32> %7 to <64 x i8>
  store <64 x i8> %8, <64 x i8>* undef, align 4
  ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
  CHECK-LABEL: avg_v64i8_512:
  CHECK:     # %bb.0:
  CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
  CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
  CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
  CHECK-NEXT: vzeroupper
  CHECK-NEXT: retq
  %1 = load <64 x i8>, <64 x i8>* %a
  %2 = load <64 x i8>, <64 x i8>* %b
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> 0<i32 0, i32 0, i32 0, i32 0, i32 0, i32 4, i32 4, i32 8, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> 0<i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqua64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0

Open Source Used In NFVIS Branch Virtualization 4.8.1 3640
%y = load <64 x i8>, <64 x i8>* %y.ptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %z.ptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
; CHECK-LABEL: _Z9test_charPcS_i_256:  
; CHECK:       # %bb.0: # %entry  
; CHECK-NEXT: movl %edx, %eax  
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT: xorl %ecx, %ecx  
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2  
; CHECK-NEXT: .p2align 4, 0x90  
; CHECK-NEXT: .LBB8_1: # %vector.body  
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3  
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4  
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5  
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3  
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1  
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3  
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm4  
; CHECK-NEXT: vpaddd %ymm2, %ymm3, %ymm2  
; CHECK-NEXT: addq $32, %rcx  
; CHECK-NEXT: cmpq %rcx, %rax  
; CHECK-NEXT: jne .LBB8_1  
; CHECK-NEXT: # %bb.2: # %middle.block  
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0  
; CHECK-NEXT: vpadd %ymm0, %ymm2, %ymm0  
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm1  
; CHECK-NEXT: vextacti128 81, %ymm0, %ymm1  
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0  
; CHECK-NEXT: vpshufd \{[*\#+]\} xmm1 = xmm0[2,3,0,1]  
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0  
; CHECK-NEXT: vpshufd \{[*\#+]\} xmm1 = xmm0[1,1,2,3]  
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0  
; CHECK-NEXT: vmovd %xmm0, %eax  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
entry:
%3 = zext i32 %2 to i64
br label %vector.body
vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="512" {  
; CHECK-LABEL: _Z9test_charPeS_i_512:  
; CHECK:       # %bb.0: # %entry  
; CHECK-NEXT: movl %edx, %eax  
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT: xorl %ecx, %ecx  
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
; CHECK-NEXT: .p2align 4, 0x90  
; CHECK-NEXT: :LBB9_1: # %vector.body  
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %xmm2  
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %xmm3  
; CHECK-NEXT: vpmaddwd %zzmm2, %zzmm3, %zzmm2  
; CHECK-NEXT: vpaddd %zzmm1, %zzmm2, %zzmm1  
; CHECK-NEXT: addq $32, %rcx  
; CHECK-NEXT: cmpq %rcx, %rax  
; CHECK-NEXT: jne .LBB9_1  
; CHECK-NEXT: # %bb.2: # %middle.block  
; CHECK-NEXT: vpaddd %zzmm0, %zzmm1, %zzmm0  
; CHECK-NEXT: vextracti64x4 $1, %zzmm0, %ymmm1  
; CHECK-NEXT: vpaddd %zzmm1, %zzmm0, %zzmm0  
; CHECK-NEXT: vextracti128 $1, %ymmm0, %zzmm1  
; CHECK-NEXT: vpaddd %zzmm1, %zzmm0, %zzmm0  
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]  
; CHECK-NEXT: vpaddd %zzmm1, %zzmm0, %zzmm0  
; CHECK-NEXT: vmovd %zzmm0, %eax  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
entry:  
%3 = zext i32 %2 to i64  
br label %vector.body  

vector.body:  
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]  
%vec.phi = phi <32 x i32> [ %index, %vector.body ], [ zeroinitializer, %entry ]  
%4 = getelementptr inbounds i8, i8* %0, i64 %index  
%5 = bitcast i8* %4 to <32 x i8>*  
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1  
%6 = sext <32 x i8> %wide.load to <32 x i32>  
%7 = getelementptr inbounds i8, i8* %1, i64 %index  
%8 = bitcast i8* %7 to <32 x i8>*  
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1  
%9 = sext <32 x i8> %wide.load14 to <32 x i32>  
%10 = mul nsw <32 x i32> %9, %6  
%11 = add nsw <32 x i32> %10, %vec.phi  
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx20, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sad_16i8_256:
 ; CHECK:    # %bb.0:    # %entry
 ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
 ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
 ; CHECK-NEXT:    .p2align 4, 0x90
 ; CHECK-NEXT:    LBB10_1:    # %vector.body
 ; CHECK-NEXT:      # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT:      vmovdqu a+1024(%rax), %ymm1
 ; CHECK-NEXT:      vpaddb %ymm1, %ymm2, %ymm2
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> %2, %5
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf1 = shufflevector <16 x i32> %lcssa, <16 x i32> undef <i32 -8, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <16 x i32> %.lcssa, %rdx.shuf1
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx1, <16 x i32> undef <i32 -4, i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx1, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef <i32 -2, i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
ENTRY:
   br label %vector.body

VECTOR.BODY:
   %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
   %vec.phi = phi <16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
   %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
   %1 = bitcast i8* %0 to <16 x i8>*
   %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
   %2 = zext <16 x i8> %wide.load to <16 x i32>
   %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
   %4 = bitcast i8* %3 to <16 x i8>*
   %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef
%2 = extractelement <16 x i32> %bin.rdx, i32 0
ret i32 %2
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
 CHECK-LABEL: sbto16f32_256:
 CHECK: # %bb.0:
 CHECK-NEXT: vpmovw2m %ymm0, %k0
 CHECK-NEXT: kshiftrw $8, %k0, %k1
 CHECK-NEXT: vpmovm2d %k1, %ymm0
 CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
 CHECK-NEXT: vpmovm2d %k0, %ymm1
 CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
 CHECK-NEXT: vmovaps %ymm1, (%rdi)
 CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
 CHECK-NEXT: vzeroupper
 CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sbto16f32_512:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
 ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
 ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
 ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
 ; CHECK-NEXT:  vzeroupper
 ; CHECK-NEXT:  retq
 %mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbto16f64_256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
 ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
 ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
 ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
 ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
 ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
 ; CHECK-NEXT:  vpmovm2d %k0, %ymm2
 ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
 ; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
 ; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
 ; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
 ; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
 ; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
 ; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
 ; CHECK-NEXT:  vzeroupper
 ; CHECK-NEXT:  retq
 %mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sbto16f64_512:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
 ; CHECK-NEXT:  vpmovm2d %k0, %zmm0

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %yrm0, %k0
    ; CHECK-NEXT:   kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:   vpmovmd %k1, %ym0
    ; CHECK-NEXT:   vpsrlq $31, %ym0, %ym0
    ; CHECK-NEXT:   vcvtdq2pd %xmm0, %ym0
    ; CHECK-NEXT:   vextracti128 $1, %ym0, %xmm0
    ; CHECK-NEXT:   vcvtdq2pd %xmm0, %ym0
    ; CHECK-NEXT:   vpmovm2d %k0, %ym2
    ; CHECK-NEXT:   vpsrlq $31, %ym2, %ym2
    ; CHECK-NEXT:   vcvtdq2pd %xmm2, %ym2
    ; CHECK-NEXT:   vextracti128 $1, %ym2, %xmm2
    ; CHECK-NEXT:   vcvtdq2pd %xmm2, %ym2
    ; CHECK-NEXT:   vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:   vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:   vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:   vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %yrm0, %k0
    ; CHECK-NEXT:   vpmovmd %k0, %zmm0
    ; CHECK-NEXT:   vpsrlq $31, %zmm0, %zmm0
    ; CHECK-NEXT:   vcvtdq2pd %xmm0, %zmm0
    ; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %xmm0
    ; CHECK-NEXT:   vcvtdq2pd %xmm0, %ym0
    ; CHECK-NEXT:   vmovaps %zmm0, 32(%rdi)
    ; CHECK-NEXT:   vmovaps %zmm1, 64(%rdi)
    ; CHECK-NEXT:   vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:   vmovaps %zmm1, 64(%rdi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" 
{
    ; CHECK-LABEL: test_16f32toub_256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: kmovdqu %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: retq

    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" 
{
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT: vpmovd2m %zmm1, %k1
    ; CHECK-NEXT: vpmovd2m %zmm1, %k1
    ; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: retq

    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" 
{
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:     # %bb.0:
    ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: kmovdqu %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: retq

    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ret <16 x i16> %select
}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" { 
  ; CHECK-LABEL: mul512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
  ; CHECK-NEXT:      zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
  ; CHECK-NEXT:      zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],
  ; CHECK-NEXT:      zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm1[40],
  ; CHECK-NEXT:      zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],
  ; CHECK-NEXT:      zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],zmm0[58],
  ; CHECK-NEXT:      zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
  ; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm3 =
  ; CHECK-NEXT:      zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
  ; CHECK-NEXT:        2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63] 
  ; CHECK-NEXT:    vp Mullw %zmm2, %zmm3, %zmm2 
  ; CHECK-NEXT:    vpackuswb %zmm3, %zmm1, %zmm1 
  ; CHECK-NEXT:    vmovdqa %zmm1, 32(%rdx) 
  ; CHECK-NEXT:    vmovdqa %zmm0, (%rdx) 
  ; CHECK-NEXT:    vzeroupper 
  ; CHECK-NEXT:    retq 
}

%d = load <64 x i8>, <64 x i8>* %a 
%e = load <64 x i8>, <64 x i8>* %b 
%f = mulc <64 x i8> %d, %e 
store <64 x i8> %f, <64 x i8>* %c 
ret void 
}
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Program Directory
define void @zext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  ; VEC512-LABEL: 'zext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
  %C = zext <16 x i8> undef to <16 x i32>
  %D = zext <16 x i16> undef to <16 x i32>
  %E = zext <32 x i8> undef to <32 x i16>
  ret void
}

define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'

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; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    ; SKX256-LABEL: 'sext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
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 */

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"
%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
    br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [
      %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]

  sw.bb.i: ; preds = %while.body
    unreachable

  sw.bb3.i: ; preds = %while.body
    unreachable

  exit: ; preds = %while.body
    switch i32 undef, label %exit.2 [
      i32 1, label %sw.bb.i17
      i32 2, label %sw.bb3.i20
    ]

  sw.bb.i17: ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

  sw.bb3.i20: ; preds = %exit
    %2 = bitcast %struct.0* %lsr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable

  exit.2: ; preds = %exit
    %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
    br label %while.body

  while.end: ; preds = %entry
    ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {  
; CHECK-LABEL: test_sitofp_fixed:

  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0  
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0  
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0  
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0  
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0  
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0  
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0  
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0  

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]  
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]  
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]  
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]  
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]  
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]  
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]  
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]  

  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {  
; CHECK-LABEL: test_sitofp_fixed_shortish:

  ; CHECK-DAG: scvtf.2d v0, [v0]  
  ; CHECK-DAG: scvtf.2d v1, [v1]  

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}

define internal void @innerSmall() "min-legal-vector-width"="128" {


ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}

define internal void @innerNoAttribute() {
ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = [ "min-legal-vector-width"="512" ]
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
define void @foo_i8() {
    entry:
    %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
    %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
    %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
    %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
    %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
    store i8 %4, i8* inttoptr(i32 805873688 to i8*)
    store i8 %3, i8* inttoptr(i32 805873719 to i8*)
    store i8 %2, i8* inttoptr(i32 805873720 to i8*)
    store i8 %1, i8* inttoptr(i32 805873727 to i8*)
    store i8* inttoptr(i32 805874800 to i8*), i8** @goo
    ret void
}
; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4
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<td>llvm/utils/unittest/googletest</td>
</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
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<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s ;
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.ffabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000000000000000000000, %mul
  ret fp128 %res
}; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}
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1.473 collectd 5.8.1-1.el7

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/**
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 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
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@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 * @return an optional URL for the license.
 */
String url() default "";
}

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1.487 classmate 1.5.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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* Brian Langel

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# velocity


[![NPM](https://nodei.co/npm/velocity.png?downloads=true&stars=true)](https://nodei.co/npm/velocity/)

A node velocity template engine.

Node velocity


[Bug and suggestion](https://github.com/fool2fish/velocity/issues/new)

[Change log](https://github.com/fool2fish/velocity/releases)

---

## 0. Features

- Full implement of velocity syntax.
- View template dependencies.
- Extract data structure from templates.
- Generate intermediate template to dump the context.

## 1. Installment
## 2. Quick Start

Some examples are ready for you:

```
$ git clone https://github.com/fool2fish/velocity.git
$ cd examples
```

#### Try a simple one

Command:

```
$ cd hello
$ velocity
```

Output:

```
Hello, velocity!
```

#### More examples

- [Diagnose error](https://github.com/fool2fish/velocity/tree/master/examples/errors)
- [Method lookup](https://github.com/fool2fish/velocity/tree/master/examples/method-lookup)
- [View dependencies](https://github.com/fool2fish/velocity/tree/master/examples/dependency)
- [Extract data structure from template](https://github.com/fool2fish/velocity/tree/master/examples/data-structure)
- [Generate intermediate template to dump the context](https://github.com/fool2fish/velocity/tree/master/examples/data-dump)

See all [examples](https://github.com/fool2fish/velocity/tree/master/examples).

### 3. Use In Modules

#### Render a template

```javascript
var Engine = require('velocity').Engine
var engine = new Engine( {{options}} )
```
var result = engine.render( {} )
console.log(result)
```
### Get the AST
```
var parser = require('velocity').parser
var content = fs.readFileSync( , {encoding: })
var ast = parser.parse(content)
console.log(ast)
```
### Extract data structure from template and save to file
```
var Data = require('velocity').Data
var data = new Data(
  output: , ...
)
var result = data.extract( )
```
```
## 4. Options

All options are very simple, you can view them in terminal:
```
$ velocity -h
```
Option `config` specifies a config file path. All [examples](https://github.com/fool2fish/velocity/tree/master/examples) have a config file.

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
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1.508 xml-apis 2.0.2
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Base class for deriving an XML filter.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with NO WARRANTY.
 * </blockquote>
This class is designed to sit between an `XMLReader` and the client application's event handlers. By default, it does nothing but pass requests up to the reader and events on to the handlers unmodified, but subclasses can override specific methods to modify the event stream or the configuration requests as they pass through.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.XMLFilter
@see org.xml.sax.XMLReader
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.ContentHandler
@see org.xml.sax.ErrorHandler

Basic interface for SAX error handlers.

If a SAX application needs to implement customized error handling, it must implement this interface and then register an instance with the XML reader using the `XMLReader#setErrorHandler` method. The parser will then report all errors and warnings through this interface.

If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result.

For XML processing errors, a SAX driver must use this interface instead of throwing an exception: it is up to the application to decide whether to throw an exception for different types of errors and warnings. Note, however, that there is no requirement that...
* the parser continue to provide useful information after a call to
* [@link fatalError](#fatalError) (in other words, a SAX driver class
* could catch an exception and report a fatalError).</p>
*

* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setErrorHandler
* @see org.xml.sax.SAXParseException
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Interface for a list of XML attributes.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</blockquote>
 *
 * This interface allows access to a list of attributes in
 * three different ways:</p>
 *
 * <ol>
 * <li>by attribute index;</li>
 * <li>by Namespace-qualified name; or</li>
 * <li>by qualified (prefixed) name.</li>
 * </ol>
 *
 * The list will not contain attributes that were declared
 * #IMPLIED but not specified in the start tag. It will also not
 * contain attributes used as Namespace declarations (xmlns*) unless
 * the <code>http://xml.org/sax/features/namespace-prefixes</code>
 * feature is set to <var>true</var> (it is <var>false</var> by
 * default).</p>
 *
 * If the namespace-prefixes feature (see above) is <var>false</var>,
 * access by qualified name may not be available; if the
 * <code>http://xml.org/sax/features/namespaces</code>
 * feature is <var>false</var>, access by Namespace-qualified names
 * may not be available.</p>
 *
 * This interface replaces the now-deprecated SAX1 [@link
* org.xml.sax.AttributeList AttributeList} interface, which does not
* contain Namespace support. In addition to Namespace support, it
* adds the <var>getAttribute</var> methods (below). </p>
*
* <p>The order of attributes in the list is unspecified, and will
* vary from implementation to implementation. </p>
*
* @since SAX 2.0
* @author David Megginson,
* @href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.helpers.AttributeListImpl
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0-2-sources-2-jar/org/xml/sax/Attributes.java
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/**
* Default implementation for AttributeList.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>AttributeList implements the deprecated SAX1 {@link
* org.xml.sax.AttributeList AttributeList} interface, and has been
* replaced by the new SAX2 {@link org.xml.sax.helpers.AttributesImpl
* AttributesImpl} interface. </p>
*
* <p>This class provides a convenience implementation of the SAX
* { @link org.xml.sax.AttributeList AttributeList} interface. This
* implementation is useful both for SAX parser writers, who can use
* it to provide attributes to the application, and for SAX application
* writers, who can use it to create a persistent copy of an element's
* attribute specifications: </p>
*
* <pre>
* private AttributeList myatts;
* 
* public void startElement (String name, AttributeList atts)
* { 
*       // create a persistent copy of the attribute list
*       // for use outside this method
*       myatts = new AttributeListImpl(atts);
*       [...]
* }
* </pre>
* 
* Please note that SAX parsers are not required to use this
* class to provide an implementation of AttributeList; it is
* supplied only as an optional convenience. In particular,
* parser writers are encouraged to invent more efficient
* implementations.</p>
* 
* @deprecated This class implements a deprecated interface,
* that interface has been replaced by
* which is implemented in the
* AttributesImpl helper class.
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
* jar/org/xml/sax/helpers/AttributeListImpl.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for an XML filter.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.<em>
 * </em></p>
 * 
 * An XML filter is like an XML reader, except that it obtains its
 * events from another XML reader rather than a primary source like
 * an XML document or database. Filters can modify a stream of
 * events as they pass on to the final application.</p>
 * 
 * The XMLFilterImpl helper class provides a convenient base
 * for creating SAX2 filters, by passing on all</em>
 * <em>@link org.xml.sax.EntityResolver
 * EntityResolver</em>, <em>@link org.xml.sax.DTDHandler DTDHandler</em>,
 * <em>@link org.xml.sax.ContentHandler ContentHandler</em> and <em>@link org.xml.sax.ErrorHandler
 * ErrorHandler</em> events automatically.</p>
**Interface for associating a SAX event with a document location.**

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* If a SAX parser provides location information to the SAX application, it does so by implementing this interface and then passing an instance to the application using the content handler's [setDocumentLocator](http://docs.oracle.com/javase/1.4.2/docs/api/javax/xml/sax/ContentHandler.html#setDocumentLocator%28%29) method. The application can use the object to obtain the location of any other content handler event in the XML source document.

* Note that the results returned by the object will be valid only during the scope of each content handler method: the application will receive unpredictable results if it attempts to use the locator at any other time.

* SAX parsers are not required to supply a locator, but they are very strongly encouraged to do so. If the parser supplies a locator, it must do so before reporting any other document events. If no locator has been set by the time the application receives the [startDocument](http://docs.oracle.com/javase/1.4.2/docs/api/javax/xml/sax/ContentHandler.html#startDocument%28%29) event, the application should assume that a locator is not available.

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* Interface for associating a SAX event with a document location.

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* If a SAX parser provides location information to the SAX application, it does so by implementing this interface and then passing an instance to the application using the content handler's [setDocumentLocator](http://docs.oracle.com/javase/1.4.2/docs/api/javax/xml/sax/ContentHandler.html#setDocumentLocator%28%29) method. The application can use the object to obtain the location of any other content handler event in the XML source document.

* Note that the results returned by the object will be valid only during the scope of each content handler method: the application will receive unpredictable results if it attempts to use the locator at any other time.

* SAX parsers are not required to supply a locator, but they are very strongly encouraged to do so. If the parser supplies a locator, it must do so before reporting any other document events. If no locator has been set by the time the application receives the [startDocument](http://docs.oracle.com/javase/1.4.2/docs/api/javax/xml/sax/ContentHandler.html#startDocument%28%29) event, the application should assume that a locator is not available.
Receive notification of basic DTD-related events.

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If a SAX application needs information about notations and unparsed entities, then the application implements this interface and registers an instance with the SAX parser using the parser's setDTDHandler method. The parser uses the instance to report notation and unparsed entity declarations to the application.

Note that this interface includes only those DTD events that the XML recommendation requires processors to report:

The SAX parser may report these events in any order, regardless of the order in which the notations and unparsed entities were declared; however, all DTD events must be reported after the document handler's startDocument event, and before the first startElement event.

It is up to the application to store the information for future use (perhaps in a hash table or object tree).

If the application encounters attributes of type "NOTATION", "ENTITY", or "ENTITIES", it can use the information that it obtained through this interface to find the entity and/or notation corresponding with the attribute value.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#setDTDHandler
@see org.xml.sax.HandlerBase

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/xml/sax/DTDHandler.java
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*/

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*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/ConvertToURI.java
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//**
 * Default base class for handlers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class implements the default behaviour for four SAX1
 * interfaces: EntityResolver, DTDHandler, DocumentHandler,
 * and ErrorHandler. It is now obsolete, but is included in SAX2 to
 * support legacy SAX1 applications. SAX2 applications should use
 * the {@link org.xml.sax.helpers.DefaultHandler DefaultHandler}
 * class instead.</p>
 *
 * Application writers can extend this class when they need to
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
 * application has not supplied its own.</p>
 *
 * Note that the use of this class is optional.</p>
 *
 * @deprecated This class works with the deprecated
 * interface. It has been replaced by the SAX2
 * class.
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.DocumentHandler
 * @see org.xml.sax.ErrorHandler
 */
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 * <strong>DOM Level 3 WD Experimental:</strong>
 * The DOM Level 3 specification is at the stage
 * of Working Draft, which represents work in
 * progress and thus may be updated, replaced,
 * or obsoleted by other documents at any time.</strong> </p>
 * <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
 * expressions with no specialized extension functions or variables. It is
 * expected that the <code>XPathEvaluator</code> interface will be
 * implemented on the same object which implements the <code>Document</code>
 * interface in an implementation which supports the XPath DOM module.
 * <code>XPathEvaluator</code> implementations may be available from other
 * sources that may provide support for special extension functions or
 * variables which are not defined in this specification. The methods of
 * XPathExpression should be named with more-XPath- specific names because
 * the interface will often be implemented by the same object which
 * implements document.No change.The point of interfaces is to localize the
 * implementing namespace. This would make the method names unnecessarily
 * long and complex even though there are no conflicts in the interface
 * itself. The new core method getInterface is designed for discovering
 * interfaces of additional modules that may not be directly implemented on
 * the objects to which they are attached. This could be used to implement
 * XPath on a separate object. The user only refers to the separate
 * interfaces and not the proprietary aggregate implementation.Should entity
 * refs be supported so that queries can be made on them?No change.We will
 * not do this now. They are not part of the XPath data model. Note that
 * they may be present in the hierarchy of returned nodes, but may not
 * directly be requested or returned in the node set.What does createResult
 * create when one wants to reuse the XPath?It is not useful.Removed method.
 * Should ordering be a separate flag, or a type of result that can be
 * requested. As a type of result, it can be better optimized in
 * implementations.It makes sense as a type of result. Changed.Removed
 * method. Implementing XPathEvaluator on Document can be a problem due to
 * conflicts in the names of the methods.The working group finds no better
 * solution. GetInterface in Level 3 permits the object to be implemented
 * separately. We should be committed to this. We will leave this issue open
 * to see if we get more feedback on it.How does this interface adapt to
 * XPath 2.0 and other query languages.No change. This interface is not
 * intended to adapt to XPath 2.0 or other languages. The models of these
* are likely to be incompatible enough to require new APIs. For alternate
* implementations that can use this APL it can be obtained from different
* sources. Support for custom variables and functions would be very useful.
* No change. It is possible for an implementation to supply alternative
* sources of an XPathEvaluator that can be customized with a custom
* variable and function context. We do not specify how this is accomplished. It is too complex to address in this version of the XPath
* DOM.
* <p>See also the <a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'>Document Object
Model (DOM) Level 3 XPath Specification</a>.</p>
*/

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathEvaluator.java
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/**
 * Interface for an element's attribute specifications.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This is the original SAX1 interface for reporting an element's
 * attributes. Unlike the new [ @link org.xml.sax.Attributes Attributes]
 * interface, it does not support Namespace-related information.</p>
 *
 * <p>When an attribute list is supplied as part of a
 * [ @link org.xml.sax.DocumentHandler#startElement startElement]
 * event, the list will return valid results only during the
 * scope of the event; once the event handler returns control
 * to the parser, the attribute list is invalid. To save a
 * persistent copy of the attribute list, use the SAX1
 * [ @link org.xml.sax.helpers.AttributeListImpl AttributeListImpl]
 * helper class.</p>
 *
 * <p>An attribute list includes only attributes that have been
 * specified or defaulted: #IMPLIED attributes will not be included.</p>
 *
 * <p>There are two ways for the SAX application to obtain information
 * from the AttributeList. First, it can iterate through the entire
 * list:</p>
 *
 * <pre>
 * public void startElement (String name, AttributeList atts) {
 * for (int i = 0; i < atts.getLength(); i++) {
 *
* String name = atts.getName(i);
* String type = atts.getType(i);
* String value = atts.getValue(i);
* [...] 
*} 
*} 
* </pre> 
* 
* <p>(Note that the result of getLength() will be zero if there 
* are no attributes.)
* 
* <p>As an alternative, the application can request the value or 
* type of specific attributes:</p> 
* 
* <pre> 
* public void startElement (String name, AttributeList atts) { 
* String identifier = atts.getValue("id");
* String label = atts.getValue("label");
* [...] 
*} 
* </pre> 
* 
* @deprecated This interface has been replaced by the SAX2 
* @link org.xml.sax.Attributes Attributes interface, which includes Namespace support.
* @since SAX 1.0 
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0 
* @see org.xml.sax.DocumentHandler#startElement startElement 
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java
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/**
* Receive notification of general document events.
* 
* <blockquote>
* <em>This module, both source code and documentation, is in the 
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* 
* <p>This was the main event-handling interface for SAX1; in
* SAX2, it has been replaced by { @link org.xml.sax.ContentHandler 
* ContentHandler}, which provides Namespace support and reporting

---

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The order of events in this interface is very important, and mirrors the order of information in the document itself. For example, all of an element's content (character data, processing instructions, and/or subelements) will appear, in order, between the startElement event and the corresponding endElement event.

Application writers who do not want to implement the entire interface can derive a class from HandlerBase, which implements the default functionality; parser writers can instantiate HandlerBase to obtain a default handler. The application can find the location of any document event using the Locator interface supplied by the Parser through the setDocumentLocator method.

@deprecated This interface has been replaced by the SAX2 ContentHandler interface, which includes Namespace support.

@author David Megginson, sax@megginson.com
@version 2.0
@see org.xml.sax.Parser#setDocumentHandler
@see org.xml.sax.Locator
@see org.xml.sax.HandlerBase

Factory for creating an XML reader.

This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY. See http://www.saxproject.org for further information.

This class contains static methods for creating an XML reader from an explicit class name, or based on runtime defaults.
try {
  XMLReader myReader = XMLReaderFactory.createXMLReader();
} catch (SAXException e) {
  System.err.println(e.getMessage());
}

<p><strong>Note to Distributions bundled with parsers:</strong></p>
You should modify the implementation of the no-arguments
<em>createXMLReader</em> to handle cases where the external
configuration mechanisms aren't set up. That method should do its
best to return a parser when one is in the class path, even when
nothing bound its class name to <code>org.xml.sax.driver</code> so
those configuration mechanisms would see it.</p>

@since SAX 2.0
@since SAX 2.0
@author David Megginson, David Brownell
@version 2.0r2pre3

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderFactory.java
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// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.
 *
 * This class encapsulates the logic of Namespace processing:
 * it tracks the declarations currently in force for each context
 * and automatically processes qualified XML 1.0 names into their
 * Namespace parts; it can also be used in reverse for generating
 * XML 1.0 from Namespaces.
 *
 * Namespace support objects are reusable, but the reset method
 * must be invoked between each session.
 *
 * Here is a simple session:
 *
 * String parts[] = new String[3];
 * NamespaceSupport support = new NamespaceSupport();
* support.pushContext();
* support.declarePrefix("p", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");

* String parts[] = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

* String parts[] = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);

* support.popContext();
* </pre>
*
* <p>Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
*
* @since SAX 2.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/NamespaceSupport.java
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/**
* Default base class for SAX2 event handlers.
* *
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* *
* <p>This class is available as a convenience base class for SAX2
* applications: it provides default implementations for all of the
* callbacks in the four core SAX2 handler classes:</p>
* *
* <ul>
* <li>{@link org.xml.sax.EntityResolver EntityResolver}</li>
* <li>{@link org.xml.sax.DTDHandler DTDHandler}</li>
* <li>{@link org.xml.sax.ContentHandler ContentHandler}</li>
* <li>{@link org.xml.sax.ErrorHandler ErrorHandler}</li>
* </ul>

* <p>Application writers can extend this class when they need to
* implement only part of an interface; parser writers can
* instantiate this class to provide default handlers when the
* application has not supplied its own.</p>

* <p>This class replaces the deprecated SAX1
* {@link org.xml.sax.HandlerBase HandlerBase} class.</p>

* <p>Since this exception is a subclass of {@link org.xml.sax.SAXException
* SAXException}, it inherits the ability to wrap another exception.</p>
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXException
* @see org.xml.sax.Locator
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXParseException.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventTarget.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/TreeWalker.java
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/**
* Basic interface for resolving entities.
* <blockquote>
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* </blockquote>
* <p>If a SAX application needs to implement customized handling for external entities, it must implement this interface and register an instance with the SAX driver using the [setEntityResolver](http://java.sun.com/j2se/1.4.2/docs/api/org/xml/sax/XMLReader.html#setEntityResolver).
* <p>The XML reader will then allow the application to intercept any external entities (including the external DTD subset and external parameter entities, if any) before including them.
* <p>Many SAX applications will not need to implement this interface, but it will be especially useful for applications that build XML documents from databases or other specialised input sources.

---

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* or for applications that use URI types other than URLs.</p>
* 
* The following resolver would provide the application
* with a special character stream for the entity with the system
* identifier "http://www.myhost.com/today":</p>
* 
* <pre>
* import org.xml.sax.EntityResolver;
* import org.xml.sax.InputSource;
*
* public class MyResolver implements EntityResolver {
* public InputSource resolveEntity (String publicId, String systemId)
* {
*   if (systemId.equals("http://www.myhost.com/today")) {
*     // return a special input source
*     MyReader reader = new MyReader();
*     return new InputSource(reader);
*   } else {
*     // use the default behaviour
*     return null;
*   }
* }
* }
* }
* </pre>
* 
* The application can also use this interface to redirect system
* identifiers to local URIs or to look up replacements in a catalog
* (possibly by using the public identifier).</p>
* 
* @since SAX 1.0
* @author David Megginson,
* &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
* */

Found in path(s):
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 */

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jar/org/w3c/dom/html/HTMLElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHtmlElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLabelElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDocument.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLSelectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLMenuElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLInputElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHeadingElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDirectoryElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableCellElement.java
*/
/**
 * Provide an optional convenience implementation of Locator.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.<em>
 * </blockquote>
 *
 * This class is available mainly for application writers, who
 * can use it to make a persistent snapshot of a locator at any
 * point during a document parse:
 *
 * public void setLocator (Locator locator)
* {  
  // note the locator  
  this.locator = locator;  
* }

* public void startDocument ()  
* {  
  // save the location of the start of the document  
  // for future use.  
  Locator startloc = new LocatorImpl(locator);  
* }
* </pre>
*
* &lt;p&gt;Normally, parser writers will not use this class, since it  
* is more efficient to provide location information only when  
* requested, rather than constantly updating a Locator object.&lt;/p&gt;  
*  
*  
* &lt;p&gt;Normally, parser writers will not use this class, since it  
* is more efficient to provide location information only when  
* requested, rather than constantly updating a Locator object.&lt;/p&gt;  
*  
* @since SAX 1.0  
* @author David Megginson,  
* &lt;a href="mailto:sax@megginson.com">sax@megginson.com&lt;/a&gt;  
* @version 2.0  
* @see org.xml.sax.Locator Locator
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-  
  jar/org/xml/sax/helpers/LocatorImpl.java

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jar/javax/xml/parsers/ParserConfigurationException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/FactoryFinder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/FactoryConfigurationError.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/SAXParserFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/DocumentBuilderFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for reading an XML document using callbacks.
 *
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with NO WARRANTY.</em>
 *
 * Note: despite its name, this interface <em>does</em> not extend the standard Java
 * interface, because reading XML is a fundamentally different activity
 * than reading character data.</p>
 *
 * XMLReader is the interface that an XML parser's SAX2 driver must
 * implement. This interface allows an application to set and
 * query features and properties in the parser, to register
 * event handlers for document processing, and to initiate
 * a document parse.</p>
 *
 * All SAX interfaces are assumed to be synchronous: the
 * methods must not return until parsing
 * is complete, and readers must wait for an event-handler callback
 * to return before reporting the next event.</p>
 *
 * This interface replaces the (now deprecated) SAX 1.0
 * interface. The XMLReader interface
 * contains two important enhancements over the old Parser
 * interface:</p>
 *
 * It adds a standard way to query and set features and
 * properties; and</li>
 * it adds Namespace support, which is required for many
 * higher-level XML standards.</li>
 * </ol>
 *
 * There are adapters available to convert a SAX1 Parser to
 * a SAX2 XMLReader and vice-versa.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * @version 2.0
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/XMLReader.java

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/**
 * A single input source for an XML entity.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class allows a SAX application to encapsulate information
 * about an input source in a single object, which may include
 * a public identifier, a system identifier, a byte stream (possibly
 * with a specified encoding), and/or a character stream.
 *
 * There are two places that the application will deliver this
 * input source to the parser: as the argument to the Parser.parse
 * method, or as the return value of the EntityResolver.resolveEntity
 * method.
 *
 * The SAX parser will use the InputSource object to determine how
 * to read XML input. If there is a character stream available, the
 * parser will read that stream directly; if not, the parser will use
 * a byte stream, if available; if neither a character stream nor a
 * byte stream is available, the parser will attempt to open a URI
 * connection to the resource identified by the system
 * identifier.
 *
 * An InputSource object belongs to the application: the SAX parser
 * shall never modify it in any way (it may modify a copy if
 * necessary).
 *
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser#parse
 * @see org.xml.sax.EntityResolver#resolveEntity
 * @see java.io.InputStream
 * @see java.io.Reader
 */
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/**
 * Exception class for an unsupported operation.
 *
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 * </em><br />
 * </blockquote>
 *
 * <p>An XMLReader will throw this exception when it recognizes a
 * feature or property identifier, but cannot perform the requested
 * operation (setting a state or value). Other SAX2 applications and
 * extensions may use this class for similar purposes.<p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * @version 2.0
 * @see org.xml.sax.SAXNotRecognizedException
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXNotSupportedException.java
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jar/javax/xml/parsers/SecuritySupport.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/SecuritySupport12.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/SecuritySupport12.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/SecuritySupport.java
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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html

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// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * </blockquote>
 *
 * <p>This class wraps a SAX1 {@link org.xml.sax.Parser Parser}
 * and makes it act as a SAX2 {@link org.xml.sax.XMLReader XMLReader},
 * with feature, property, and Namespace support. Note
 * that it is not possible to report {@link org.xml.sax.ContentHandler#skippedEntity
 * skippedEntity} events, since SAX1 does not make that information available.</p>
 *
 * <p>This adapter does not test for duplicate Namespace-qualified
 * attribute names.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.helpers.XMLReaderAdapter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.Parser
 */
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * <p>This class is in the Public Domain, and comes with NO
 * WARRANTY of any kind.</p>
 *
This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are interned whenever requested.

// NO WARRANTY! This class is in the public domain.

This class provides a default implementation of the SAX2 Attributes interface, with the addition of manipulators so that the list can be modified or reused.

There are two typical uses of this class:

- to take a persistent snapshot of an Attributes object in a startElement event; or
- to construct or modify an Attributes object in a SAX2 driver or filter.

This class replaces the now-deprecated SAX1 AttributeListImpl class; in addition to supporting the updated Attributes interface rather than the deprecated AttributeList interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Create a new instance of a class by name.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class contains a static method for creating an instance of a
 * class from an explicit class name. It tries to use the thread's context
 * ClassLoader if possible and falls back to using
 * Class.forName(String). It also takes into account JDK 1.2+'s
 * AccessController mechanism for performing its actions. </p>
 *
 * This code is designed to run on JDK version 1.1 and later and compile
 * on versions of Java 2 and later.</p>
 *
 * @author Edwin Goei, David Brownell, Neil Graham
 * @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/NewInstance.java

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/**
 * Encapsulate a general SAX error or warning.
 *
 * <blockquote>
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</blockquote>
 *
 * This class can contain basic error or warning information from
 * either the XML parser or the application: a parser writer or
 * application writer can subclass it to provide additional
 * functionality. SAX handlers may throw this exception or
 * any exception subclassed from it.</p>
 *
 * If the application needs to pass through other types of
* exceptions, it must wrap those exceptions in a SAXException
* or an exception derived from a SAXException.</p>
*
* If the parser or application needs to include information about a
* specific location in an XML document, it should use the
* [@link org.xml.sax.SAXParseException SAXParseException] subclass.</p>
*
* @since SAX 1.0
* @author David Megginson,
*  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXParseException
*/

// NO WARRANTY! This class is in the Public Domain.
/**
* Exception class for an unrecognized identifier.
 *
* <blockquote>
* This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.<em></em>
* </blockquote>
* An XMLReader will throw this exception when it finds an
* unrecognized feature or property identifier; SAX applications and
* extensions may use this class for other, similar purposes.</p>
* 
* @since SAX 2.0
* @author David Megginson,
*  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXNotRecognizedException
*/

// NO WARRANTY! This class is in the Public Domain.
/**
* Exception class for an unrecognized identifier.
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* <blockquote>
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* 
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* @author David Megginson,
*  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
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* 
* @since SAX 2.0
* @author David Megginson,
*  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
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* @since SAX 2.0
* @author David Megginson,
*  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
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* 
* @since SAX 2.0
* @author David Megginson,
*  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXNotRecognizedException
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* An XMLReader will throw this exception when it finds an
* unrecognized feature or property identifier; SAX applications and
* extensions may use this class for other, similar purposes.</p>
* 
* @since SAX 2.0
* @author David Megginson,
*  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXNotRecognizedException
*/
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the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
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*/
/**
* Create a new <code>DOMBuilder</code>. The newly constructed parser may
* then be configured by means of its <code>setFeature</code> method,
* and used to parse documents by means of its <code>parse</code>
* method.
* @param mode  The <code>mode</code> argument is either
*   <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if
*   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
*   <code>DOMBuilder</code> that is created will operate in synchronous
*   mode, if it's <code>MODEASYNCHRONOUS</code> then the
*   <code>DOMBuilder</code> that is created will operate in
*   asynchronous mode.
* @param schemaType  An absolute URI representing the type of the schema
*   language used during the load of a <code>Document</code> using the
*   newly created <code>DOMBuilder</code>. Note that no lexical
*   checking is done on the absolute URI. In order to create a
*   <code>DOMBuilder</code> for any kind of schema types (i.e. the
*   DOMBuilder will be free to use any schema found), use the value
*   <code>null</code>. For W3C XML Schema , applications must use the
*   value <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD
*   , applications must use the value
*   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
*   are outside the scope of the W3C and therefore should recommend an
*   absolute URI in order to use this method.
* @return  The newly created <code>DOMBuilder</code> object. This
*   <code>DOMBuilder</code> is either synchronous or asynchronous
*   depending on the value of the <code>mode</code> argument. By
*   default, the newly created <code>DOMBuilder</code> does not contain
*   a <code>DOMErrorHandler</code>, i.e. the value of the
*   <code>errorHandler</code> is <code>null</code>. However,
*   implementations may provide a default error handler at creation
*   time. In that case, the initial value of the
* <code>errorHandler</code> attribute on the new created
* <code>DOMBuilder</code> contains a reference to the default error
* handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/ls/DOMImplementationLS.java
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/**
* Basic interface for SAX (Simple API for XML) parsers.
* *
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* *
* This was the main event supplier interface for SAX1; it has
* been replaced in SAX2 by { @link org.xml.sax.XMLReader XMLReader},
* which includes Namespace support and sophisticated configurability
* and extensibility.</p>
* *
* All SAX1 parsers must implement this basic interface: it allows
* applications to register handlers for different types of events
* and to initiate a parse from a URI, or a character stream.</p>
* *
* All SAX1 parsers must also implement a zero-argument constructor
* (though other constructors are also allowed).</p>
* *
* SAX1 parsers are reusable but not re-entrant: the application
* may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
* *
* @deprecated This interface has been replaced by the SAX2
* { @link org.xml.sax.XMLReader XMLReader} interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java
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// Public Domain: no warranty.
/**
 * SAX2 extension handler for DTD declaration events.
 * 
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * 
 * This is an optional extension handler for SAX2 to provide
 * information about DTD declarations in an XML document. XML
 * readers are not required to support this handler, and this
 * handler is not included in the core SAX2 distribution.
 * 
 * Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the
 * org.xml.sax.DTDHandler DTDHandler interface.
 * 
 * If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * [startDTD startDTD] and the
 * [endDTD endDTD] events.
 * 
 * To set the DeclHandler for an XML reader, use the
 * [setProperty setProperty] method
 * with the propertyId "http://xml.org/sax/properties/declaration-handler".
 * If the reader does not support declaration events, it will throw a
 * [SAXNotRecognizedException] or a
 * [SAXNotSupportedException] when you attempt to register the handler.
 * 
 * @since 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 1.0
 * @see org.xml.sax.XMLReader
 */
/**
 * Java-specific class for dynamically loading SAX parsers.
 * <blockquote>
 * <em>This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.</em>
 * </blockquote>
 *
 * Note: This class is designed to work with the now-deprecated SAX1 class. SAX2 applications should use <em>XMLReaderFactory</em> instead.
 *
 * ParserFactory is not part of the platform-independent definition of SAX; it is an additional convenience class designed specifically for Java XML application writers. SAX applications can use the static methods in this class to allocate a SAX parser dynamically at run-time based either on the value of the `org.xml.sax.parser` system property or on a string containing the class name.
 *
 * Note that the application still requires an XML parser that implements SAX1.
 *
 * This class works with the deprecated interface.
 *
 * Since SAX 1.0
 *
 * @author David Megginson
 * @version 2.0r2pre3
 */

---

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*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/FilePathToURI.java
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/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong></em>.</blockquote>
 */

*<p>This class wraps a SAX2 [ @link org.xml.sax.XMLReader XMLReader] and makes it act as a SAX1 [ @link org.xml.sax.Parser Parser]. The XMLReader must support a true value for the http://xml.org/sax/features/namespace-prefixes property or parsing will fail with a [ @link org.xml.sax.SAXException SAXException]; if the XMLReader supports a false value for the http://xml.org/sax/features/namespaces property, that will also be used to improve efficiency.</p>

* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser
* @see org.xml.sax.XMLReader
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLReaderAdapter.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Receive notification of the logical content of a document.
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong></em>.</blockquote>
 */

*<p>This is the main interface that most SAX applications
* implement: if the application needs to be informed of basic parsing
* events, it implements this interface and registers an instance with
* the SAX parser using the {@link org.xml.sax.XMLReader#setContentHandler}
* setContentHandler} method. The parser uses the instance to report
* basic document-related events like the start and end of elements
* and character data.</p>
* 
* <p>The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
* 
* <p>This interface is similar to the now-deprecated SAX 1.0
* DocumentHandler interface, but it adds support for Namespaces
* and for reporting skipped entities (in non-validating XML
* processors).</p>
* 
* <p>Implementors should note that there is also a Java class
* {@link java.net.ContentHandler ContentHandler} in the java.net
* package; that means that it's probably a bad idea to do</p>
* 
* <blockquote>
* import java.net.*;
* import org.xml.sax.*;
* </blockquote>
* 
* <p>In fact, "import ...*" is usually a sign of sloppy programming
* anyway, so the user should consider this a feature rather than a
* bug.</p>
* 
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ContentHandler.java

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// Public Domain: no warranty.
/**
 * SAX2 extension handler for lexical events.
 *
This is an optional extension handler for SAX2 to provide lexical information about an XML document, such as comments and CDATA section boundaries; XML readers are not required to support this handler, and it is not part of the core SAX2 distribution.

The events in the lexical handler apply to the entire document, not just to the document element, and all lexical handler events must appear between the content handler's startDocument and endDocument events.

To set the LexicalHandler for an XML reader, use the `@link org.xml.sax.XMLReader#setProperty` method with the propertyId "http://xml.org/sax/properties/lexical-handler". If the reader does not support lexical events, it will throw a `@link org.xml.sax.SAXNotRecognizedException` or a `@link org.xml.sax.SAXNotSupportedException` when you attempt to register the handler.

@since 1.0
@version 1.0
@package org.xml.sax.ext

// Found in path(s):
// /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/LexicalHandler.java

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1.510 wrappy 1.0.2

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1.511 polkit 0.112-26.el7

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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 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.)

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

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

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

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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
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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) 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.

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

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1.513 libvorbis 1.3.3 8.el7

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1.514 os-tmpdir 1.0.1

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1.521 once 1.3.1

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1.522 dmraid 1.0.0.rc16 28.el7

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* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5-2-6-release-sources-1-
jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
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* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5-2-6-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java
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* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5-2-6-release-sources-1-jar/org/springframework/aop/support/MethodMatchers.java
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* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5.2.6-release-sources-1-jar/org/springframework/aop/aspectj/aspectjproxy/AspectJProxyFactory.java
* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5.2.6-release-sources-1-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5.2.6-release-sources-1-
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* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5-2-6-release-sources-1-jar/org/aopalliance/intercept/MethodInvocation.java
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* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5-2-6-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAutoProxyBeanDefinitionParser.java
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* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5-2-6-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
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* /opt/cola/permits/1136375489_1613753039.4/0/spring-aop-5-2-6-release-sources-1-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
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On the historical side, those ECMA standards were established in the early 90's whereas the VT100, for example, was designed in the mid/late 70's. At that point in time, control codes were still pretty ungoverned and engineers used them for a multitude of things, namely to activate hardware ports that may have been proprietary. Somewhere else you see a similar 'anarchy' of codes is in the x86 architecture for processors; there are a ton of "interrupts" that can mean different things on certain brands of processors, most of which have been phased out.

1.531 ee-first 1.1.1
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
*/
* key. Proper calls will resolve to the version in [@code ImmutableSortedMap], not this dummy version.

* @throws UnsupportedOperationException always
* @deprecated Pass a key of type [@code Comparable] to use [@link ImmutableSortedMap#of(Comparable, Object)].

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/CacheBuilder.java

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  jar/com/google/common/collection/CompactHashMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/TreeRangeMap.java
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  jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/CompactHashSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/Range.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/UnmodifiableIterator.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/Table.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/Tables.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collect/ImmutableListMultimap.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collect/ImmutableSortedSet.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/graph/BaseGraph.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Network.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/PredecessorsFunction.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/GwtTransient.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Booleans.java

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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

Found in path(s):
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ImmutableMapEntry.java

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jar/com/google/common/hash/package-info.java

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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ConsumingQueueIterator.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/annotations/VisibleForTesting.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/io/LittleEndianDataOutputStream.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Defaults.java

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 */
/**
 * Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
 * { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize
 * it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/JdkBackedImmutableSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/JdkBackedImmutableMultiset.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/Subscriber.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/Runnables.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/RowSortedTable.java
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jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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1.537 seccomp 0.9.1

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## xwd v1.0.7

### xwd utility

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<td>src/mesa/</td>
<td>MIT</td>
</tr>
<tr>
<td>Device drivers</td>
<td>src/mesa/drivers/**</td>
<td>MIT, generally</td>
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<td>src/gallium/</td>
<td>MIT</td>
</tr>
<tr>
<td>Ext headers</td>
<td>GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>GL/glxext.h</td>
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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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Version 2, June 1991

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

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table, the facility still operates, and performs whatever part of
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(For example, a function in a library to compute square roots has
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
/* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. */
/* http://www.hypermall.com/*
/* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY */
/* interrupts us (except possibly for removal/insertion of the cable?) */
/* 10/4/97 - began heavy inline documentation of the code. Corrected typos */
/* and spelling mistakes. */
/* 10/5/97 - added code to handle PHY interrupts, disable PHY on */
/* loss of link, and correctly re-enable PHY when link is */
/* re-established. (put back CFG_PHYIE) */
/* */
/* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. */
/* */
/* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 */
/* */
/* Linux driver for the IDT77201 NICSAR 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: */
/* IDET 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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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 many bugfixes

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
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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
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1.572 cookie-signature 1.0.5
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# cookie-signature

Sign and unsign cookies.

## Example
```javascript
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```

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1.573 hibernate-c3p0 5.4.15.Final

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1.596 jackson-dataformat-yaml 2.10.3

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* /opt/cola/permits/1130440174_1612575494.77/0/jnr-unixsocket-0-38-5-sources-jar/jnr/unixsocket/UnixSocketAddress.java
* /opt/cola/permits/1130440174_1612575494.77/0/jnr-unixsocket-0-38-5-sources-jar/jnr/unixsocket/SockAddrUnix.java
* /opt/cola/permits/1130440174_1612575494.77/0/jnr-unixsocket-0-38-5-sources-jar/jnr/unixsocket/UnixServerSocket.java

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  jar/jnr/unixsocket/UnixDatagramChannel.java
* /opt/cola/permits/1130440174_1612575494.77/0/jnr-unixsocket-0-38-5-sources-
  jar/jnr/unixsocket/UnixSocketOptions.java
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  jar/jnr/unixsocket/impl/Common.java
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Joshua Hight

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Bihari Babu

The following people donated financially to help with the release of 1.60:

Jens Neuhalfen and perillamint.

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- Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!
- <a href="http://www.grierforensics.com/">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.
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- TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: <a href="http://www.flexiprovider.de/">http://www.flexiprovider.de/</a>
Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at [http://voxeolabs.com](http://voxeolabs.com)

Core Infrastructure Initiative - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.

Additional CertPath testing and validation data from the CertPath testing tool developed by [cryptosource GmbH](https://www.cryptosource.de) and [media Transfer AG](https://www.mtg.de) both located in Darmstadt, Germany.

[Core Infrastructure Initiative](https://www.coreinfrastructure.org) - financial support towards developing the TLS/DTLS API and the BCJSSE provider.

**People**

- Tito Pena &lt;Fortunato.Pena@AdNovum.CH&gt; - initial RC5 implementation
- Michael Lee &lt;yfl@#64;mira.net&gt; - initial RC6 implementation, MD2 implementation
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- Markus Niedermann &lt;markus.niedermann@softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.
- Mike Benham &lt;moxie@#64;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.
- Soren Hilmer &lt;hilmer@mail.tele.dk&gt; - initial implementation of netscape certificate request classes.
- Uwe Guenther &lt;uwe@#64;csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.
- Markus Bradtke &lt;mab@#64;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.
- Waclaw Sierek &lt;waclaw.sierek@#64;tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.
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Carmen Bastiaans &lt;cbastiaa@microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson &lt;tomaszg@primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

Eugen Kuleshov &lt;euxx@hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

Megan Woods &lt;meganwoods@sekurafile.com&gt; - initial implementation of ECIES.

Christian Geuer-Pollmann &lt;geuerp@apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

Michael M&uuml;hle &lt;michael@mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

Michael Mansell &lt;me@michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.

Eike Recker &lt;eike.recker@gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.

Chris Southern &lt;CSouthern@baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.

Sidney Markowitz &lt;sidney@sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.

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Martin Petraschek &lt;e9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.

Jess Garms &lt;jgarms@yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.

Mike Bremford &lt;mike@big.faceless.org&gt; - contributing the initial PKCS7 implementation.

Shankar Srinivasan &lt;ssr002@yahoo.com&gt; - S/Mime interoperability testing and debugging.

Stef Hoeben &lt;ilsestef@skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk &lt;kciokos@max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.

Thomas Houtekier &lt;Thomas.Houtekier@tectrade.net&gt; - S/Mime testing and debugging.
Interoperability with Biztalk.

- Don Hillsberry &lt;hillsber@#064;dialcorp.com&gt; - S/Mime testing and debugging.
- Kazuo Furuya &lt;kfuruya@#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.
- John Novotny &lt;jnovotny@#064;lb.gov&gt; - initial work on the openSSL PEM processing.
- Joel Hockey &lt;joe.hockey@#064;qsipayments.com&gt; - initial work on the openSSL PEM processing.
- John Steenbruggen &lt;JoinS@#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.
- Justin Chapweske &lt;justin@#064;chapweske.com&gt; - ordering patch for Tiger message digest.
- John Serock &lt;jserock@#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.
- Sascha Weinreuter &lt;Sascha.Weinreuter@#064;cit.de&gt; - fixed SMIME saveChanges() bug.
- Andre Wehnert &lt;aw5@#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.
- Luigi Lo Iacono &lt;lo_iacono@#064;inf.tu-dresden.de&gt; - adding SIC mode to the blockciphers in the provider.
- Tim Sakach &lt;tsakach@#064;certivo.net&gt; - SMIME v2 compatibility patches.
- Marcus Povey &lt;mpovey@#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.
- Sebastian Clau&szlig; &lt;sc2@#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.
- Nicolas Bielza &lt;nicolas.bielza@#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.
- Casey Marshall &lt;rsdio@#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.
- Rick Zeldes &lt;rick.zeldes@#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.
- Jarek Gawor &lt;gawor@#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.
- Brett Neumeier &lt;random@#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.
- Graham Coles &lt;graham.coles@#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.
- J&ouml;n von Kattch&eacute;e &lt;J.Kattchee@#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multpart objects.
- Matteo Artuso &lt;matartuso@#064;libero.it&gt; - picking up the possible overload in ASN1InputStream.
- Julian Morrison &lt;julian@#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.
- Elmar Sonnenschein &lt;eso@#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.
- Bryan Loququist &lt;bkl@#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.
- Michael H&auml;usler &lt;hausler@#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.
- Johan Seland &lt;johans@#064;netfonds.no&gt; - general toString for BigInteger class.
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generation, fix to CertificateID issuer.</li>
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<li>Jan Dvorak &lt;jan.dvorak@064mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
<li>Joe Cohen &lt;jcohen@064forum.sys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
<li>Chris Long &lt;clong@064ece.cm.edu&gt; - adding public key decoding to PEMReader.</li>
<li>Hes Siemelink &lt;hes@064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu &lt;stefanpuiuro@064yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Kaiser Yang &lt;kaiseryang@064@yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>
<li>Jiri Urbanec &lt;Jiri.urbanec@064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().</li>
<li>Justin Kolb &lt;jkolb@064pfirstx.com&gt; - patch to fix signature generation in OpenPGP. Fix for the unexpected 'Unexpected end of ZLIB input stream' exception.</li>
<li>Ralf Hauser &lt;ralfhauser@064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>
<li>Michal Dvorak &lt;m_dvorak@064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>
<li>Klaus Greve Fiorentini &lt;klaus@064epqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.</li>
<li>Olivier Refalo &lt;Olivier_Refalo@064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSContentData objects.</li>
<li>Mariusz Bandola &lt;mariusz.bandola@064cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
<li>Brien Oberstein &lt;brien.oberstein@064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.</li>
<li>Ian Haywood &lt;ian@064haywood.bpa.eu&gt; - addition of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards &lt;s34gull@mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>
<li>Andrew Thornton &lt;andrew@064cared.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>
<li>Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers@064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>
<li>Peter Sylvester &lt;Peter.Sylvester@064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>
<li>Doug &lt;ummmmm@064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>
<li>Francois Staes &lt;fstaes@064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>
<li>W.R. Dittmer &lt;wdittmer@064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto &lt;laperez@064banxico.org.mx&gt; - patch to use of ByteString in X.500 name.</li>
<li>James Wright &lt;James.Wright@064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford &lt;jim@064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding.
secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler &lt;haustler@064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotha &lt;tpsa@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph@064digifiree.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;xyz@064sagemenbank.de&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jerome van Vianen &lt;jeroen@064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun@064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdudem@064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva@064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alaps@064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jjengelbach@064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug@064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1@064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>
<li>Tom Cargill &lt;cargill@064procal.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;C.Breitenstrom@064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zantotti@064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendoni &lt;nicol@064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Ville Skytt&amp;uuml; &lt;ville.skytt&amp;iuml;@064iki.fi&gt; - patch to CRLDistPoint for eRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon@064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;Miles.Whiteley@064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner@064evinta.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;Carlos@064evinta.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi@064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hakala &lt;joni.hakala@064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www-egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.</li>
<li>Rolf Schillinger &lt;rolf@064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Batihan &lt;Sergey_Bahtin@064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Franck Leroy &lt;Franck.Leroy@064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamanaka &lt;ymnk@064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
<li>Nickolay Bolshackov &lt;tyrex@reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer@064tielenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell@064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>
<li>Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;matartuso@064libero.it&gt; - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson &lt;andrew.paterson@064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassilev &lt;paulvsa@064gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-ede encryption for RSAPrivate keys to PEMWriter.</li>
<li>Łukasz Kowalczyk &lt;lkukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch@064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee@064crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X.509V2AttributeCertificate.</li>
<li>David M. Lee &lt;dmlee@064crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees &lt;rees@0644ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;lbugbee@064mac.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke &lt;bianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-ede MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets. </li>
<li>Kishimoto Kazuhiro &lt;kazu-k@464hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST. </li>
<li>Lawrence Tan &lt;lrwnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory. </li>
<li>Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class. </li>
<li>Olaf Keller, &lt;olaf.keller.bc@bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA. </li>
<li>Jörg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression. </li>
<li>Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression, F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs. </li>
<li>Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests. </li>
<li>Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;ctl;&lt;m&gt; only handling in CRLOutputStream. </li>
<li>John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest. </li>
<li>Stefan Neusatz Guilhen &lt;stneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer. </li>
<li>Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests. </li>
<li>Georg Lippold &lt;georg.lippold@064gm.de&gt; - initial implementation of NaccacheStern cipher. </li>
<li>Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting. </li>
<li>Pasi Eronen &lt;Pasi.Eronen@064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components. </li>
<li>Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags > 30 in ASN.1 parsing. </li>
<li>Armin H&auml;auml;merling &lt;arminha@064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes. </li>
<li>Marius Schilder &lt;mschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery
<li>Xavier Le Vourch &lt;xavier@064brittanysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews@064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;trekomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rjoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list@064mimt.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juilisdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;gl@064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&amp;amp;uuml;thler &lt;olga.kaethler@064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&amp;uuml;ria Mar&amp;iacute; &lt;nnumaa@064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff@064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;pknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozd &lt;gwozdziu@064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow@064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal.yacobi@064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com.t&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com.t&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
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unterminated NDEF's.

- Patrick Peck &lt;peck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

- Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BIA-93].

- Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].

- Roelof Naude &lt;roelof.naude@epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

- Patrick Peck &lt;peck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

- Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

- Ion Larrañaga &lt;ilarra@06421sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

- Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

- Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

- Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

- Rui Hodai &lt;ru@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

- Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

- Torbjorn Svensson &lt;bobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

- Paul FitzPatrick &lt;bounceycastle_pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

- Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

- Cagdas Cirir &lt;cagdascirir@064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.

- Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

- Pedro Henriques &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

- Lothar K immeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

- Richard Farr &lt;rarr.se@064gmail.com&gt; - initial SRP-6a implementation.

- Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

- Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.

- Robin Lundgren &lt;r737lundgren@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.

- Petr Kadlec &lt;mormegil@064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.

- Andreas Antener &lt;antener_a@064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.

- Harendra Rawat &lt;hsrawat@064yahoo.com&gt; - fix for BERConstructedOctetString.

- Rolf Lindemann &lt;lindemann@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

- Alex Artamonov &lt;alextart.home@064gmail.com&gt; - name look up patch for GOST-2001 parameters.

- Mike Lyons &lt;mlyons@064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

- Chris Cole &lt;chris_h_cole@064yahoo.com&gt; - identified a problem handling null passwords when loading a BKS keystore.
<li>Tomas Krivanek &lt;tom@atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau@064t-online.de&gt;; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kil&aring;ring &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.</li>
<li>Bob McGowan &lt;boab.mcgoo@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
<li>Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini &lt;nessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf &lt;alfilmalf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo &lt;gboccardo@064unicampusa.it&gt; initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikocinski &lt;J.Sikocinski@zdzie.pl&gt; addition of Features subpacket support to OpenPGP APL.</li>
<li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;lian.velten@064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.</li>
<li>Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower caseHex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov &lt;tpetrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.
Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt;: Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson@064quest.com&gt;: a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj@064gmail.com&gt;: patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt;: Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

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Ted Shaw &lt;xiao.xj@064gmail.com&gt;: patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
<li>Eric Müller &lt;eric.mueller#sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>
<li>Mathias Herbets &lt;Mathias.Herberts#gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivano#gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86#gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;andrey.utkin#gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis#ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb#riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tyley &lt;/&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick#devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward#pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin#google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student#gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter#iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller#gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli#arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Robert Heldt &lt;Robert.Heldt#cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle#traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;maurice.aarts#bouncy steroid.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franciskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb#yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco#nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer &lt;https://github.com/martinschaefer&gt; contriburred a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt;https://github.com/tobias.wich64eccec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrten &lt;https://github.com/hauke&m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz#galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jt.kapitza64schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan#primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb#riseup.net&gt; Contributions to Bcrypt/OpenBSDCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;https://github.com/derek64ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.
<li>Peter Jr Halicky &lt;peto@halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot &lt;thomas.belot+BC@064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>BJouml;n Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Schouml;mann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;https://github.com/MKneeke&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>Thomas Belot &lt;https://github.com/thomasbelot&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Bj&ouml;rn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
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<li>Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki@wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexandr Krivoshta &lt;wipe@ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storozh72@gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.


mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.

didisof &lt;https://github.com/didisof&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storozh72@gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser@de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott@#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPNT bounds checking.

chris mccown &lt;0xchrismccown@gmail.com&gt; identification of serialisation issue with XMSS/XMSS-MT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitaes&gt;; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.

fgrieu &lt;fgrieu&#064;gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.


Gabriel Stroka &lt;https://github.com/gabrielstroka&gt; corrected comments in RSA validation.

Sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.

Gillis95 &lt;https://github.com/Gillis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.

Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.

Golden Looly &lt;https://github.com/looly&gt; Path for addition of C1C3C2 mode to SM2Engine.

Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer&#064;truesec.se&gt; Additional improvements to constant time comparisons.

Ren&eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSX/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.

gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.

Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath.
Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.
vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
Tobias Ospelt &gt;tobias&#064;pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.

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* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2-
jar/org/springframework/http/client/reactive/ClientHttpRequestDecorator.java
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jar/org/springframework/http/client/reactive/ClientHttpRequestDecorator.java
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 */
/**
 * Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
* client, or with a new session id either because the client did not
* specify one or because the underlying session had expired. Use of this
* method does not automatically create a session. See {@link WebSession}
* for more details.
*/

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* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/http/client/reactive/JettyClientHttpConnector.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/http/server/reactive/AbstractListenerReadPublisher.java
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* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/client/HttpClientErrorException.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/filter/reactive/ForwardedHeaderFilter.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/method/annotation/RequestParamMethodArgumentResolver.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/client/RestOperations.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/http/codec/support/DefaultServerCodecConfigurer.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/http/codec/support/DefaultClientCodecConfigurer.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/http/converter/ByteArrayHttpMessageConverter.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/method/support/InvocableHandlerMethod.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/bind/annotation/RestControllerAdvice.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/http/codec/support/DefaultClientCodecConfigurer.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/cors/CorsConfiguration.java
* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/web/http/converter/feed/AbstractWireFeedHttpMessageConverter.java

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* /opt/cola/permits/1136375269_1613752616.93/0/spring-web-5-2-6-release-sources-2.jar/org/springframework/http/client/support/HttpAccessor.java
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  jar/org/springframework/web/bind/annotation/RequestAttribute.java
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  jar/org/springframework/web/bind/annotation/RequestAttribute.java
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# ================================================================
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# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
application/atomdeleted+xml
# application/atomicmail
application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
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# application/encaprtp
# application/epp+xml
application/epub+zip
# application/example
application/exi
# application/fastinforeset
# application/fastsoap
# application/fdt+xml
# application/fitxml
# application/font-sfnt
application/font-tdpfr
application/font-woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gml
application/gpx+xml
application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudio
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
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application/inkml+xml
application/inkml+xml
# application/iotp
application/ipfix
# application/ipp
# application/isup
# application/its+xml
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application/java-serialized-object
application/java-vm
application/javascript
# application/jose
# application/mikey
application/mods+xml mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
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# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
# application/odx
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application/ogg ogx
application/omdoc+xml omdoc
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# application/smpte336m
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# application/soap+xml
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.615 jackson-databind 2.9.10.1

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1.616 containerd-console 1.0.0

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1.632 ncurses 5.9-14.20130511.el7_4

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Name: wsgiref
Version: 0.1.2
Summary: WSGI (PEP 333) Reference Library
Home-page: http://cheeseshop.python.org/pypi/wsgiref
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ProtocolDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
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jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Snappy.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/string/StringDecoder.java
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 * Enumeration of supported Base64 dialects.
 * <p>
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A decoder that splits the received {link ByteBuf}s dynamically by the value of the length field in the message. It is particularly useful when you decode a binary message which has an integer header field that represents the length of the message body or the whole message.

[@link LengthFieldBasedFrameDecoder] has many configuration parameters so that it can decode any message with a length field, which is often seen in proprietary client-server protocols. Here are some example that will give you the basic idea on which option does what.

2 bytes length field at offset 0, do not strip header

The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

2 bytes length field at offset 0, strip header

Because we can get the length of the content by calling [ByteBuf#readableBytes()], you might want to strip the length field by specifying `initialBytesToStrip`. In this example, we specified `2`, that is same with the length of the length field, to strip the first two bytes.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
* initialBytesToStrip = 2 (= the length of the Length field)
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
+--------+----------------+      +--------+----------------+
```

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In most cases, the length field represents the length of the message body.

In some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero lengthAdjustment. Because the length value in this example message is always greater than the body length by lengthAdjustment, we specify lengthAdjustment for compensation.

```
lengthFieldOffset   =  0
lengthFieldLength   =  2
lengthAdjustment    = 0
initialBytesToStrip = 0
```

**BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)**

```
| Length | Actual Content |------->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
```

**3 bytes length field at the beginning of 5 bytes header, do not strip header**

The following message is a simple variation of the first example. An extra header value is prepended to the message. lengthAdjustment is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```
lengthFieldOffset   =  2 (= the length of Header 1)
lengthFieldLength   =  3
lengthAdjustment    = 0
initialBytesToStrip = 0
```

**BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)**

```
| Header 1 | Length | Actual Content |------->| Header 1 | Length | Actual Content |
| 0xCAFE  | 0x000E | "HELLO, WORLD" |      | 0xCAFE  | 0x000E | "HELLO, WORLD" |
```

**3 bytes length field at the end of 5 bytes header, do not strip header**
This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
<b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
|  Length  | Header 1 | Actual Content | ----->|  Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+
</pre>

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```plaintext
lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+-------------------------------+-------------------------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+-------------------------------+-------------------------------+
</pre>

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>. 
* Please note that we don't need to take the length of HDR2 into account 
* because the length field already includes the whole header length. 
* <pre> 
* lengthFieldOffset = 1 
* lengthFieldLength = 2 
* <b>b.lengthAdjustment</b> = 3 (= the length of HDR1 + LEN, negative) 
* <b>b.initialBytesToStrip</b> = 3 
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes) 
* +------+------+--------+-------+----------------+      +------+------+----------------+ 
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+------+--------+-------+----------------+      +------+------+----------------+ 
* </pre> 
* @see LengthFieldPrepender 
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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 * <p>
 * The encoding and decoding algorithm in this class has been derived from
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Open Source Used In NFVIS Branch Virtualization 4.8.1  4964
* Base64 Encoder/Decoder*. *

/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
  jar/io/netty/handler/codec/base64/Base64.java

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Tom St Denis

1.645 libteam 1.27 4.el7

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Version 2.1, February 1999

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSPool
  * Basic-authenticated HTTPSPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
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* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingmn@cs.stanford.edu>
  * Support for explicitly closing pooled connections
* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeadersDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen 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
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/Http2Codec.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http1/Http1Codec.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http2/Header.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http1/HttpHeaders.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http/HttpCodec.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/ws/WebSocketReader.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3 Púb/RealCall.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/Version.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/CacheRequest.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/CacheRequest.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/proxy/NullProxySelector.java

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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/tls/OkHostnameVerifier.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/cache/CacheInterceptor.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java
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* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
* /opt/cola/permits/1126275629_1611617381.77/0/okhttp-3-12-2-sources-3-jar/okhttp3/internal/http/UnrepeatableRequestBody.java
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* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/FormatString.java
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* /opt/cola/permits/1028387514_1607186847.25/0/error-prone-annotations-2-2-0-sources-2-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
1.660 unpipe 1.0.0

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU’ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1.669 httpcomponents-core 4.4.6

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jar/io/netty/resolver/AddressResolver.java
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1.673 dhcp 4.2.5 68.el7.centos
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<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#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>
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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 3a0982da308228d796df35f98d787c5c8f2bd5b6.

  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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1.674 spring-security-config 5.2.4.RELEASE

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collect/ImmutableRangeSet.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/SerializingExecutor.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-jar/jersey/repackaged/com/google/common/collect/TreeBasedTable.java

jar/jersey/repackaged/com/google/common/collection/StandardRowSortedTable.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/Shorts.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/ImmutableMapKeySet.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/UnmodifiableIterator.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/Booleans.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/EmptyImmutableBiMap.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/EmptyImmutableListMultimap.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/PeekingIterator.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/Table.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/Collections2.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/FluentIterable.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/Platform.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/util/concurrent/ListenersFutureTask.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/primitives/Floats.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/ImmutableMultiset.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/EmptyImmutableSetSet.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/ImmutableMapEntrySet.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/thirdparty/publicsuffix/TrieParser.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/CollectPreconditions.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/base/Stopwatch.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/escape/Scaper.java

* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
jar/jersey/repackaged/com/google/common/collection/HashBasedTable.java

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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/cache/LongAdder.java
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 * 
 * As of 2010/06/11, this method is identical to the (package private) hash
 * method in OpenJDK 7's java.util.HashMap class.
 */

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  jar/jersey/repackaged/com/google/common/collections/AbstractRangeSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collections/Count.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collections/GeneralRange.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collections/SortedIterables.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collections/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
  jar/jersey/repackaged/com/google/common/collections/ImmutableSortedMultisetFauxverideShim.java

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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4-
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4- jar/jersey/repackaged/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4- jar/jersey/repackaged/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4- jar/jersey/repackaged/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4- jar/jersey/repackaged/com/google/common/collection/ForwardingNavigableMap.java
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* /opt/cola/permits/1136113812_1613679412.19/0/jersey-guava-2-25-1-sources-4- jar/jersey/repackaged/com/google/common/cache/LongAddables.java
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1.686 pkix-ssh 10.1

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*
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*
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1.689 range-parser 1.2.1

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1.690 string_decoder 1.1.1

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1.691 uuid 3.3.2

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1.692 lua-cjson 2.1.0

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* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/Datatypes.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/RegExp.java
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* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/MinimizationOperations.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/BasicOperations.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/Transition.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/StatePair.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/RunAutomaton.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/SpecialOperations.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/BasicAutomata.java

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  jar/dk/brics/automaton/AutomatonMatcher.java

1.694 gir1.2-gdkpixbuf-2.0 2.36.5 1.el7
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From 99148c19bd9149bb938309ffb6b4dcde20b67934 Mon Sep 17 00:00:00 2001
From: Zhilong Liu <zlliu@suse.com>
Date: Tue, 2 May 2017 17:27:13 +0800
Subject: [RHEL7.5 PATCH 105/169] change back 0644 permission for Grow.c
Fixes commit:
26714713cd2b ("mdadm: Change timestamps to unsigned data type.")

Signed-off-by: Zhilong Liu <zlliu@suse.com>
Signed-off-by: Jes Sorensen <jsorensen@fb.com>
---
Grow.c | 0
1 file changed, 0 insertions(+), 0 deletions(-)
mode change 100755 => 100644 Grow.c

diff --git a/Grow.c b/Grow.c
old mode 100755
new mode 100644
--
2.7.4

1.723 simple-app 0.1.0
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* DNS resolver (dirmngr/dns.c)

** dns.c - Recursive, Reentrant DNS Resolver. **

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1.740 async 0.9.0
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1.742 commons-compiler 2.7.6

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*/

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* /opt/cola/permits/1001455528_1606951889.05/0/commons-compiler-2-7-6-sources-
jar/org/codehaus/commons/compiler/Cookable.java
* /opt/cola/permits/1001455528_1606951889.05/0/commons-compiler-2-7-6-sources-
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* /opt/cola/permits/1001455528_1606951889.05/0/commons-compiler-2-7-6-sources-
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1.743 log4j-to-slf4j 2.11.2

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1.745 libxcb 1.12-1.el7

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1.746 jctools-core 3.0.0

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```
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</developers>
<developer>
  <url>https://github.com/franz1981</url>
</developer>
<developers>

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</prerequisites>

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  <java.test.version>1.8</java.test.version>
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  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>
  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>

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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
1.747 debuglog 1.0.1

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1.766 write-file-atomic 1.1.4

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1.767 orc 0.4.26 1.el7

1.768 config-chain 1.1.10

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1.770 commonj-sdo 2.1.1

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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/ValidStaxBuilder.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/AbstractPastOrPresentInstantBasedValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/EANValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/ValidStaxBuilder.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/EANValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/ValidStaxBuilder.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/EANValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/ValidStaxBuilder.java
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* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar
  /org/hibernate/validator/internal/xml/AbstractStaxBuilder.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar
  /org/hibernate/validator/internal/constraintvalidators/bv/SizeValidatorForArraysOfDouble.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar
  /org/hibernate/validator/internal/constraintvalidators/bv/time/AbstractPastEpochBasedValidator.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar
  /org/hibernate/validator/spi/resourceloading/package-info.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar
  /org/hibernate/validator/spi/returnvalue/package-info.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar
  /org/hibernate/validator/spi/returnvalue/plugin/package-info.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar
  /org/hibernate/validator/spi/returnvalue/plugin/AbstractReturnValueDescriptorImpl.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar
  /org/hibernate/validator/spi/returnvalue/plugin/AbstractReturnValueDescriptorImpl

jar/org/hibernate/validator/internal/constraintvalidators/bv/money/MinValidatorForMonetaryAmount.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/PositiveOrZeroValidatorForByte.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveOrZeroValidatorForInteger.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeValidatorForInteger.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadatacriptive/package-info.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/descriptor/package-info.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/defs/pl/NIPDef.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/defs/Mod11CheckDef.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/defs/PackageDef.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/descriptor/package-info.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/valueextraction/ValueExtractorResolver.java

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* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/constraintvalidation/HibernateConstraintValidator.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/valueextraction/ListPropertyValueExtractor.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/MessageInterpolatorContext.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/messageinterpolation/package-info.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveOrZeroValidatorForMonetaryAmount.java
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* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfBoolean.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/PESELValidator.java
* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/hv/URLValidator.java
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* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/groups/ValidationOrder.java
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* /opt/cola/permits/110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/TokenCollector.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/util/ModUtil.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/util/privilegedactions/GetAnnotationAttributes.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForBigDecimal.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMinValidatorForCharSequence.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForCharSequence.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/HibernateValidatorContext.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/NullValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/cfg/context/ConfiguredConstraint.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForLocalDate.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/resolver/TraverseAllTraversableResolver.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/annotation/AnnotationFactory.java

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 * Hibernate Validator, declare and validate application constraints
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 */
/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.

* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
*"}
* public void createEvent(Date start, Date end) { ... }
* </pre>
* </p>
* Can be specified on any method or constructor.
* </p>
* 
* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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*/
/**
* Retrieves constraint related meta data for the parameters of the given
* executable.
*
* @param executable The executable of interest.
*
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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*
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*/
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*/

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*/opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/util/TypeHelper.java

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

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.)

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

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

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* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/spel/ast/FloatLiteral.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/spel/ast/OpGE.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/spel/ast/Projection.java
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* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-jar/org/springframework/expression/spel/ast/ValueRef.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-jar/org/springframework/expression/spel/ast/ExpressionValidator.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
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* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-jar/org/springframework/expression/spel/ast/OpLE.java
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* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java

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  jar/org/springframework/expression/eval/Token.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/eval/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/eval/StandardTypeLocator.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/eval/SpelParseException.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
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  jar/org/springframework/expression/EvaluationException.java
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  jar/org/springframework/expression/MethodFilter.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/TypeLocator.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/spel/standard/TokenKind.java
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  jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
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* /opt/cola/permits/1136375549_1613753111.25/0/spring-expression-5-2-6-release-sources-1-
  jar/org/springframework/expression/spel/SpelMessage.java
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  jar/org/springframework/expression/Operation.java
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TweetNaCl.js
==============

Port of [TweetNaCl](http://tweetnacl.cr.yp.to) / [NaCl](http://nacl.cr.yp.to) to JavaScript for modern browsers and Node.js. Public domain.


[Demo](https://dchest.github.io/tweetnacl-js/)

**:warning: Beta version. The library is stable and API is frozen, however it has not been independently reviewed. If you can help reviewing it, please [contact me](mailto:dmitry@codingrobots.com).**

Documentation
=============

* [Overview](#overview)
* [Installation](#installation)
* [Usage](#usage)
  * [Public-key authenticated encryption (box)](#public-key-authenticated-encryption-box)
  * [Secret-key authenticated encryption (secretbox)](#secret-key-authenticated-encryption-secretbox)
  * [Scalar multiplication](#scalar-multiplication)
  * [Signatures](#signatures)
  * [Hashing](#hashing)
  * [Random bytes generation](#random-bytes-generation)
  * [Constant-time comparison](#constant-time-comparison)
* [Utilities](#utilities)
* [Examples](#examples)
* [System requirements](#system-requirements)
* [Development and testing](#development-and-testing)
Overview
--------

The primary goal of this project is to produce a translation of TweetNaCl to JavaScript which is as close as possible to the original C implementation, plus a thin layer of idiomatic high-level API on top of it.

There are two versions, you can use either of them:

* `nacl.js` is the port of TweetNaCl with minimum differences from the original + high-level API.

* `nacl-fast.js` is like `nacl.js`, but with some functions replaced with faster versions.

Installation
------------

You can install TweetNaCl.js via a package manager:

[Bower](http://bower.io):

$ bower install tweetnacl

[NPM](https://www.npmjs.org/):

$ npm install tweetnacl

or [download source code](https://github.com/dchest/tweetnacl-js/releases).

Usage
-----

All API functions accept and return bytes as `Uint8Array`s. If you need to encode or decode strings, use functions from `nacl.util` namespace.

### Public-key authenticated encryption (box)

Implements `curve25519-xsalsa20-poly1305`.

#### nacl.box.keyPair()
Generates a new random key pair for box and returns it as an object with `publicKey` and `secretKey` members:

```javascript
{
  publicKey: ..., // Uint8Array with 32-byte public key
  secretKey: ...  // Uint8Array with 32-byte secret key
}
```

#### nacl.box.keyPair.fromSecretKey(secretKey)

Returns a key pair for box with public key corresponding to the given secret key.

#### nacl.box(message, nonce, theirPublicKey, mySecretKey)

Encrypt and authenticates message using peer's public key, our secret key, and the given nonce, which must be unique for each distinct message for a key pair.

Returns an encrypted and authenticated message, which is `nacl.box.overheadLength` longer than the original message.

#### nacl.box.open(box, nonce, theirPublicKey, mySecretKey)

Authenticates and decrypts the given box with peer's public key, our secret key, and the given nonce.

Returns the original message, or `false` if authentication fails.

#### nacl.box.before(theirPublicKey, mySecretKey)

Returns a precomputed shared key which can be used in `nacl.box.after` and `nacl.box.open.after`.

#### nacl.box.after(message, nonce, sharedKey)

Same as `nacl.box`, but uses a shared key precomputed with `nacl.box.before`.

#### nacl.box.open.after(box, nonce, sharedKey)

Same as `nacl.box.open`, but uses a shared key precomputed with `nacl.box.before`.

#### nacl.box.publicKeyLength = 32

Length of public key in bytes.

#### nacl.box.secretKeyLength = 32
Length of secret key in bytes.

### nacl.box.sharedKeyLength = 32

Length of precomputed shared key in bytes.

### nacl.box.nonceLength = 24

Length of nonce in bytes.

### nacl.box.overheadLength = 16

Length of overhead added to box compared to original message.

### Secret-key authenticated encryption (secretbox)

Implements *xsalsa20-poly1305*.

### nacl.secretbox(message, nonce, key)

Encrypt and authenticates message using the key and the nonce. The nonce must be unique for each distinct message for this key.

Returns an encrypted and authenticated message, which is `nacl.secretbox.overheadLength` longer than the original message.

### nacl.secretbox.open(box, nonce, key)

Authenticates and decrypts the given secret box using the key and the nonce.

Returns the original message, or `false` if authentication fails.

### nacl.secretbox.keyLength = 32

Length of key in bytes.

### nacl.secretbox.nonceLength = 24

Length of nonce in bytes.

### nacl.secretbox.overheadLength = 16

Length of overhead added to secret box compared to original message.

### Scalar multiplication
Implements *curve25519*.

#### nacl.scalarMult(n, p)

Multiplies an integer `n` by a group element `p` and returns the resulting group element.

#### nacl.scalarMult.base(n)

Multiplies an integer `n` by a standard group element and returns the resulting group element.

#### nacl.scalarMult.scalarLength = 32

Length of scalar in bytes.

#### nacl.scalarMult.groupElementLength = 32

Length of group element in bytes.

### Signatures

Implements [ed25519](http://ed25519.cr.yp.to).

#### nacl.sign.keyPair()

Generates new random key pair for signing and returns it as an object with `publicKey` and `secretKey` members:

```javascript
{
    publicKey: ..., // Uint8Array with 32-byte public key
    secretKey: ...  // Uint8Array with 64-byte secret key
}
```

#### nacl.sign.keyPair.fromSecretKey(secretKey)

Returns a signing key pair with public key corresponding to the given 64-byte secret key. The secret key must have been generated by `nacl.sign.keyPair` or `nacl.sign.keyPair.fromSeed`.

#### nacl.sign.keyPair.fromSeed(seed)

Returns a new signing key pair generated deterministically from a 32-byte seed. The seed must contain enough entropy to be secure. This method is not recommended for general use: instead, use `nacl.sign.keyPair` to generate a new key pair from a random seed.
### nacl.sign(message, secretKey)
Signs the message using the secret key and returns a signed message.

### nacl.sign.open(signedMessage, publicKey)
Verifies the signed message and returns the message without signature.
Returns `null` if verification failed.

### nacl.sign.detached(message, secretKey)
Signs the message using the secret key and returns a signature.

### nacl.sign.detached.verify(message, signature, publicKey)
Verifies the signature for the message and returns `true` if verification succeeded or `false` if it failed.

### nacl.sign.publicKeyLength = 32
Length of signing public key in bytes.

### nacl.sign.secretKeyLength = 64
Length of signing secret key in bytes.

### nacl.sign.seedLength = 32
Length of seed for `nacl.sign.keyPair.fromSeed` in bytes.

### nacl.sign.signatureLength = 64
Length of signature in bytes.

### Hashing
Implements *SHA-512*.

### nacl.hash(message)
Returns SHA-512 hash of the message.

### nacl.hash.hashLength = 64
Length of hash in bytes.
### Random bytes generation

#### nacl.randomBytes(length)

Returns a `Uint8Array` of the given length containing random bytes of cryptographic quality.

**Implementation note**

TweetNaCl.js uses the following methods to generate random bytes, depending on the platform it runs on:

* `window.crypto.getRandomValues` (WebCrypto standard)
* `window.msCrypto.getRandomValues` (Internet Explorer 11)
* `crypto.randomBytes` (Node.js)

Note that browsers are required to throw `QuotaExceededError` exception if requested `length` is more than 65536, so do not ask for more than 65536 bytes in *one call* (multiple calls to get as many bytes as you like are okay: browsers can generate infinite amount of random bytes without any bad consequences).

If the platform doesn't provide a suitable PRNG, the following functions, which require random numbers, will throw exception:

* `nacl.randomBytes`
* `nacl.box.keyPair`
* `nacl.sign.keyPair`

Other functions are deterministic and will continue working.

If a platform you are targeting doesn't implement secure random number generator, but you somehow have a cryptographically-strong source of entropy (not `Math.random`!), and you know what you are doing, you can plug it into TweetNaCl.js like this:

```javascript
nacl.setPRNG(function(x, n) {
    // ... copy n random bytes into x ...
});
```

Note that `nacl.setPRNG` *completely replaces* internal random byte generator with the one provided.

### Constant-time comparison

#### nacl.verify(x, y)
Compares `x` and `y` in constant time and returns `true` if their lengths are non-zero and equal, and their contents are equal.

Returns `false` if either of the arguments has zero length, or arguments have different lengths, or their contents differ.

### Utilities

Encoding/decoding functions are provided for convenience. They are correct, however their performance and wide compatibility with uncommon runtimes is not something that is considered important compared to the simplicity and size of implementation. You can use third-party libraries if you need to.

#### nacl.util.decodeUTF8(string)

Decodes string and returns `Uint8Array` of bytes.

#### nacl.util.encodeUTF8(array)

Encodes `Uint8Array` or `Array` of bytes into string.

#### nacl.util.decodeBase64(string)

Decodes Base-64 encoded string and returns `Uint8Array` of bytes.

#### nacl.util.encodeBase64(array)

Encodes `Uint8Array` or `Array` of bytes into string using Base-64 encoding.

System requirements
---------------------

TweetNaCl.js supports modern browsers that have a cryptographically secure pseudorandom number generator and typed arrays, including the latest versions of:

* Chrome
* Firefox
* Safari (Mac, iOS)
* Internet Explorer 11

Other systems:

* Node.js (we test on 0.10 and later)
Development and testing

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

Install NPM modules needed for development:

$ npm install

To build minified versions:

$ npm run build

Tests use minified version, so make sure to rebuild it every time you change
`nacl.js` or `nacl-fast.js`.

### Testing

To run tests in Node.js:

$ npm test

By default all tests described here work on `nacl.min.js`. To test other
versions, set environment variable `NACL_SRC` to the file name you want to test.
For example, the following command will test fast minified version:

$ NACL_SRC=nacl-fast.min.js npm test

To run full suite of tests in Node.js, including comparing outputs of
JavaScript port to outputs of the original C version:

$ npm run testall

To prepare tests for browsers:

$ npm run browser

and then open `test/browser/test.html` (or `test/browser/test-fast.html`) to
run them.

To run headless browser tests with `testling`:

$ npm run testling

(If you get `Error: spawn ENOENT`, install *xvfb*: `sudo apt-get install xvfb`.)

### Benchmarking

To run benchmarks in Node.js:
$ npm run bench
$ NACL_SRC=nacl-fast.min.js npm run bench

To run benchmarks in a browser, open `test/benchmark/bench.html` (or `test/benchmark/bench-fast.html`).

Contributors
-------------

JavaScript port:

* [Dmitry Chestnykh](http://github.com/dchest) (ported xsalsa20, poly1305, curve25519)
* [Devi Mandiri](https://github.com/devi) (ported curve25519, ed25519, sha512)

Original authors of [NaCl](http://nacl.cr.yp.to), [TweetNaCl](http://tweetnacl.cr.yp.to) and [Poly1305-donna](https://github.com/floodyberry/poly1305-donna) (who are *not* responsible for any errors in this implementation):

* [Daniel J. Bernstein](http://cr.yp.to/djb.html)
* Wesley Janssen
* [Tanja Lange](http://hyperelliptic.org/tanja)
* [Peter Schwabe](http://www.cryptojedi.org/users/peter/)
* [Matthew Dempsky](https://github.com/mdempsky)
* [Andrew Moon](https://github.com/floodyberry)

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Third-party libraries based on TweetNaCl.js
------------------------------------------

* [forward-secrecy](https://github.com/alax/forward-secrecy)  Axolotl ratchet implementation
* [nacl-stream](https://github.com/dchest/nacl-stream-js) - streaming encryption
* [tweetnacl-auth-js](https://github.com/dchest/tweetnacl-auth-js)  implementation of `[crypto_auth](http://nacl.cr.yp.to/auth.html)`

Who uses it
----------

Some notable users of TweetNaCl.js:

* [miniLock](http://minilock.io/)
* [Stellar](https://www.stellar.org/)
TweetNaCl.js Changelog
======================

v0.13.2
-------

* Fixed undefined variable bug in fast version of Poly1305. No worries, this bug was *never* triggered.

* Specified CC0 public domain dedication.

* Updated development dependencies.

v0.13.1
-------

* Exclude `crypto` and `buffer` modules from browserify builds.

v0.13.0
-------

* Made `nacl-fast` the default version in NPM package. Now `require("tweetnacl")` will use fast version; to get the original version, use `require("tweetnacl/nacl.js")`.

* Cleanup temporary array after generating random bytes.

v0.12.2
-------

* Improved performance of curve operations, making `nacl.scalarMult`, `nacl.box`, `nacl.sign` and related functions up to 3x faster in `nacl-fast` version.

v0.12.1
-------

* Significantly improved performance of Salsa20 (~1.5x faster) and Poly1305 (~3.5x faster) in `nacl-fast` version.
v0.12.0
-------

* Instead of using the given secret key directly, TweetNaCl.js now copies it to
  a new array in `nacl.box.keyPair.fromSecretKey` and
  `nacl.sign.keyPair.fromSecretKey`.

v0.11.2
-------

* Added new constant: `nacl.sign.seedLength`.

v0.11.1
-------

* Even faster hash for both short and long inputs (in `nacl-fast`).

v0.11.0
-------

* Implement `nacl.sign.keyPair.fromSeed` to enable creation of sign key pairs
deterministically from a 32-byte seed. (It behaves like
[libsodium's](http://doc.libsodium.org/public-key_cryptography/public-key_signatures.html)
`crypto_sign_seed_keypair`: the seed becomes a secret part of the secret key.)

* Fast version now has an improved hash implementation that is 2x-5x faster.

* Fixed benchmarks, which may have produced incorrect measurements.

v0.10.1
-------

* Exported undocumented `nacl.lowlevel.crypto_core_hsalsa20`.

v0.10.0
-------

* **Signature API breaking change!** `nacl.sign` and `nacl.sign.open` now deal
  with signed messages, and new `nacl.sign.detached` and
  `nacl.sign.detached.verify` are available.
Previously, `nacl.sign` returned a signature, and `nacl.sign.open` accepted a message and "detached" signature. This was unlike NaCl's API, which dealt with signed messages (concatenation of signature and message).

The new API is:

```javascript
nacl.sign(message, secretKey) -> signedMessage
nacl.sign.open(signedMessage, publicKey) -> message | null
```

Since detached signatures are common, two new API functions were introduced:

```javascript
nacl.sign.detached(message, secretKey) -> signature
nacl.sign.detached.verify(message, signature, publicKey) -> true | false
```

(Note that it's `verify`, not `open`, and it returns a boolean value, unlike `open`, which returns an "unsigned" message.)

* NPM package now comes without `test` directory to keep it small.

v0.9.2
------

* Improved documentation.
* Fast version: increased theoretical message size limit from $2^{32}-1$ to $2^{52}$ bytes in Poly1305 (and thus, secretbox and box). However this has no impact in practice since JavaScript arrays or ArrayBuffers are limited to 32-bit indexes, and most implementations won't allocate more than a gigabyte or so. (Obviously, there are no tests for the correctness of implementation.) Also, it's not recommended to use messages that large without splitting them into smaller packets anyway.

v0.9.1
------

* Initial release

Found in path(s):
* `/opt/cola/permits/1151573926_1617928521.69/0/tweetnacl-0-13-3-tgz/package/CHANGELOG.md`
No license file was found, but licenses were detected in source scan.

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#
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docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
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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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"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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compilation
and installation of the library.

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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.

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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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will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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<one line to give the library's name and a brief idea of what it does.>
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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!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.
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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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
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
>
> 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
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=}
application 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

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
>
> 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
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> > > released under. This wasn't actually a license change, just a
> > > clarification of the licensing that was already in place.
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> > unlike the old license, GPL-2 prevents people from using cracklib
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> > applications are also GPL-2 which imo is just wrong. it isnt the
> > 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
> > > 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.

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

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

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.umr.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 I91Gxtpr020623
   for <nneul@umr.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>
   <EC90713277D2BE41B7110CCCD74E235CEF4F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@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@umr.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
e-mail
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

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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=

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

--mike

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.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

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 GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isnt the place of library to dictact to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.

=Dmike

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
>
> 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.
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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
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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
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> > What I am hearing so far is that LGPL makes sense, since it can be
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> 
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> timeframe.
> 
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> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> 
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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
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> 
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> the change now ?

yes, go for it. thanks++

-a

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

Attachments: Message as HTML
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> > make the change now ?
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> > yes, go for it. thanks++

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

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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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 alemc@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.umr.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 ESMTPT id 191Gxptr020623
for <nneul@umr.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 ESMTPT id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helio=[192.168.1.3])
    by rutherford.zen.co.uk with esmtpt (Exim 4.50)
id 11c0xC-004Qt-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: <1b1b3fd80710010908k11dacoafp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
            <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
            <1b1b3fd80710010908k11dacoafp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=fowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@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: alemc@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@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alemc@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

1.807 spring-boot-starter-logging

2.1.11.RELEASE

1.807.1 Available under license:

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

Found in path(s):


1.808 gnutls 3.3.29

1.808.1 Available under license:

The "inih" library is distributed under the New BSD license:

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Version 2.1, February 1999

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51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

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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.

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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

Open Source Used In NFVIS Branch Virtualization 4.8.1 5955
you if you distribute copies of the library or if you modify it.

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

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

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

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

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

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

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

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

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

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

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"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.)

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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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However, linking a "work that uses the Library" with the Library
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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
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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1.810 ipmi-tool 1.8.18 7.el7

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1.811 ply 3.4

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Metadata-Version: 1.0
Name: ply
Version: 3.4
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:
PLY is yet another implementation of lex and yacc for Python. Some notable
features include the fact that its implemented entirely in Python and it
uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty
productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.
It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```python
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
==============
PLY requires the use of Python 2.2 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

A Google group for PLY can be found at

http://groups.google.com/group/ply-hack

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
=========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.2 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======
Here is a simple example showing a PLY implementation of a calculator with variables.

# calc.py
#

# calc.py

#
# A simple calculator with variables.
# -----------------------------------------------------------------------------------------------

tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
  )  

# Tokens  
t_PLUS    = r'\+'  
t_MINUS   = r'-'  
t_TIMES   = r'\*'  
t_DIVIDE  = r'/r'  
t_EQUALS  = r'=/'  
t_LPAREN  = r'('  
t_RPAREN  = r')'  
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]\*'  

def t_NUMBER(t):  
    r'd+'  
    t.value = int(t.value)  
    return t  

# Ignored characters  
t_ignore = " \t"  

def t_newline(t):  
    r'\n+'  
    t.lexer.lineno += t.value.count("\n")  

def t_error(t):  
    print("Illegal character '%s'" % t.value[0])  
    t.lexer.skip(1)  

# Build the lexer  
import ply.lex as lex  
lex.lex()  

# Precedence rules for the arithmetic operators  
precedence = (  
    ('left','PLUS','MINUS'),  
    ('left','TIMES','DIVIDE'),  
    ('right','UMINUS'),  
  )  

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
        | expression MINUS expression
        | expression TIMES expression
        | expression DIVIDE expression'''

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while 1:
    try:
```python
s = raw_input('calc > ')  # use input() on Python 3
except EOFError:
    break
yacc.parse(s)
```

Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

In addition there is a Google group for discussing PLY related issues at

http://groups.google.com/group/ply-hack

-- Dave

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1.812 process-nextick-args 2.0.0

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```text
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```
1.813 iconv 2.17

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  jar/com/amazonaws/util/NameValuePair.java
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* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/http/timers/package-info.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/http/client/impl/SdkHttpClient.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredJsonFactory.java
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* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/metrics/MetricFilterInputStream.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/Signer.java
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* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/waiters/HttpFailureStatusAcceptor.java
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jar/com/amazonaws/AmazonWebServiceResult.java
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* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/ReleasableInputStream.java

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* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/CustomBackoffStrategy.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/CRC32MismatchException.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-
jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/EC2MetadataClient.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/http/IdleConnectionReaper.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/util/AwsHostNameUtils.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/AWSCredentialsProviderChain.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java

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  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/ImmutableRequest.java
  * /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/RequestSigner.java

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  jar/com/amazonaws/http/conn/ssl/TLSProtocol.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-
  jar/com/amazonaws/http/conn/ssl/SdkTLSSocketFactory.java

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  jar/com/amazonaws/event/ProgressTracker.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-
  jar/com/amazonaws/auth/profile/internal/securitytoken/STSProfileCredentialsServiceLoader.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-
  jar/com/amazonaws/event/DeliveryMode.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-
  jar/com/amazonaws/internal/SdkSocket.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-
  jar/com/amazonaws/internal/Releasable.java
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* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/profile/ProfilesConfigFileWriter.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/SdkSSLSocket.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/util/UnreliableFilterInputStream.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/event/ProgressInputStream.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/event/request/ProgressSupport.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/internal/SignerKey.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/profile/internal/securitytoken/STSProfileCredentialsServiceProvider.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/event/SyncProgressListener.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/DelegateSSLSocket.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/BoundedLinkedHashMap.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/profile/internal/BasicProfileConfigLoader.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/profile/internal/Profile.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java
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* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/profile/internal/AbstractProfilesConfigFileScanner.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/internal/AWS4SignerRequestParams.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/http/UnreliableTestConfig.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/auth/internal/SignerConstants.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/event/ProgressEventFilter.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/internal/SdkInputStream.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/event/SDKProgressPublisher.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-jar/com/amazonaws/event/request/Progress.java
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  jar/com/amazonaws/util/Classes.java
* /opt/cola/permits/1137623352_1614109368.43/0/aws-java-sdk-core-1-11-201-sources-1-
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  jar/com/amazonaws/util/EncodingScheme.java
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jar/com/amazonaws/http/timers/client/ClientExecutionTimer.java
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jar/com/amazonaws/partitions/model/Partitions.java

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  jar/org/springframework/beans.NomeNullValueInNestedPathException.java
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jar/org/springframework/beans/factory/support/ManagedMap.java
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*/
/**
/*
* A [WebApplicationContext] that can be used to bootstrap itself from a contained
* ServletWebServerFactory bean.
* *
* This context will create, initialize and run a [WebServer] by searching for a
* single ServletWebServerFactory bean within the [ApplicationContext]
* itself. The ServletWebServerFactory is free to use standard Spring concepts
* (such as dependency injection, lifecycle callbacks and property placeholder variables).
* *
* In addition, any Servlet or Filter beans defined in the context will be
* automatically registered with the web server. In the case of a single Servlet bean, the
* /" mapping will be used. If multiple Servlet beans are found then the lowercase bean
* name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
* always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
* *
* For more advanced configuration, the context can instead define beans that implement
* the ServletContextInitializer interface (most often
* ServletRegistrationBean)s and/or ServletRegistrationBean)s. To prevent
* double registration, the use of ServletContextInitializer beans will disable
* automatic Servlet and Filter bean registration.
* *
* Although this context can be used directly, most developers should consider using the
* ServletWebServerApplicationContext or
* ServletWebServerApplicationContext variants.
*
* @author Phillip Webb
* @author Dave Syer
* @since 2.0.0
* @see AnnotationConfigServletWebServerApplicationContext
* @see XmlServletWebServerApplicationContext
* @see ServletWebServerFactory
*/

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* /opt/cola/permits/1137623241_1614109449.78/0/spring-boot-2-1-11-release-sources-2-jar/org/springframework/boot/web/servlet/ServletListenerRegistrationBean.java
* /opt/cola/permits/1137623241_1614109449.78/0/spring-boot-2-1-11-release-sources-2-jar/org/springframework/boot/ClearCachesApplicationListener.java
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* /opt/cola/permits/1137623241_1614109449.78/0/spring-boot-2-1-11-release-sources-2-jar/org/springframework/boot/web/c codec/package-info.java
* /opt/cola/permits/1137623241_1614109449.78/0/spring-boot-2-1-11-release-sources-2-jar/org/springframework/boot/diagnostics/ analyzer/UnboundConfigurationPropertyFailureAnalyzer.java
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* /opt/cola/permits/1137623241_1614109449.78/0/spring-boot-2-1-11-release-sources-2.jar/org/springframework/boot/ansi/AnsiBackground.java
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* /opt/cola/permits/1137623241_1614109449.78/0/spring-boot-2-1-11-release-sources-2-jar/org/springframework/boot/origin/PropertySourceOrigin.java
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* /opt/cola/permits/1137623241_1614109449.78/0/spring-boot-2-1-11-release-sources-2-jar/org/springframework/boot/web/servlet/MultipartConfigFactory.java
* /opt/cola/permits/1137623241_1614109449.78/0/spring-boot-2-1-11-release-sources-2-jar/org/springframework/boot/web/servlet/ServletContextInitializer.java
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1.828 jackson 2.9.10

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1.830 ipset 7.1-1.el7

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1.833 javax-inject 1

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### 1.835 bottle 0.12.8

**1.835.1 Available under license:**

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1  
Name: bottle  
Version: 0.12.8  
Summary: Fast and simple WSGI-framework for small web-applications.  
Home-page: http://bottlepy.org/  
Author: Marcel Hellkamp  
Author-email: marc@gsites.de  
License: MIT  
Description:

Bottle is a fast and simple micro-framework for small web applications. It offers request dispatching (Routes) with url parameter support, templates, a built-in HTTP Server and adapters for many third party WSGI/HTTP-server and template engines - all in a single file and with no dependencies other than the Python Standard Library.

Homepage and documentation: http://bottlepy.org/

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Bottle Web Framework

.. image:: http://bottlepy.org/docs/dev/_static/logo_nav.png
   :alt: Bottle Logo
   :align: right

Bottle is a fast and simple micro-framework for small web applications. It offers request dispatching (URL routing) with URL parameter support, templates, a built-in HTTP Server and adapters for many third party WSGI/HTTP-server and template engines - all in a single file and with no dependencies other than the Python Standard Library.

Homepage and documentation: http://bottlepy.org/
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Install bottle with `pip install bottle` or just `download bottle.py <http://pypi.python.org/pypi/bottle>` and place it in your project directory. There are no (hard) dependencies other than the Python Standard Library.

Example
-------

```python
from bottle import route, run

@route('/hello/<name>)
def hello(name):
    return '<h1>Hello %s!</h1>' % name.title()

run(host='localhost', port=8080)
```

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```
1.836 colors.js 1.1.2
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1.837 libndp 1.2 7.el7

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1.839 jwa 1.0.2

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1.840 springfox-schema 2.7.0

1.841 proxy-addr 2.0.6

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* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2.jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
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  * /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
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* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/context/Lifecycle.java
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*/
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-
  jar/org/springframework/format/datetime/joda/DateTimeParser.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-
  jar/org/springframework/format/datetime/joda/LocalDateParser.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-
  jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-
  jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-
  jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
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* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2.jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2.jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2.jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2.jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2.jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2.jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java

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* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/context/ApplicationContext.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/format/AnnotationFormatterFactory.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/validation/annotation/Validated.java

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 */
/**
 * Indicates that a component is only eligible for registration when all
 * '{@linkplain #value specified conditions} match.
 * 
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see '{@link Condition for details).
 * 
 * <p>The '{@link @Conditional} annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * '{@link Component}, including '{@link Configuration @Configuration} classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any '{@link Bean @Bean} method</li>
 */
If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods, `@Import` annotations, and `@ComponentScan` annotations associated with that class will be subject to the conditions.

* <strong>NOTE</strong>: Inheritance of `@Conditional` annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, `@Conditional` itself is not declared as `@Inherited`; furthermore, any custom `<em>composed annotation</em>` that is meta-annotated with `@Conditional` must not be declared as `@Inherited`.

* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

Found in path(s):
* /opt/cola/permits/1136375446_1613753042.17/0/spring-context-5-2-6-release-sources-2-jar/org/springframework/context/annotation/Conditional.java
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 */

/**
 * `FactoryBean` that obtains a WebSphere `MBeanServer` reference through WebSphere's proprietary `AdminServiceFactory` API, available on WebSphere 5.1 and higher.
 * Exposes the `MBeanServer` for bean references.
 */
This `FactoryBean` is a direct alternative to `MBeanServerFactoryBean`, which uses standard JMX 1.2 API to access the platform's `MBeanServer`.

See the javadocs for WebSphere's


and


@since 2.0.3
@see javax.management.MBeanServer
@see MBeanServerFactoryBean
*/

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1.844 jackson 2.10.4
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1.845 animal-sniffer-annotation 1.17

1.846 mv 2.0.3

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1.847 libunistring 0.9.3 9.el7

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* /opt/ws_local/PERMITS_SQL/1069127254_1594491700.09/kubernetes-client-4-10-2-sources.jar/io/fabric8/kubernetes/client/SchedulingAPIGroupClient.java
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#
io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl

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* /opt/ws_local/PERMITS_SQL/1069127254_1594491700.09/0/kubernetes-client-4-10-2-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ServiceToURLProvider

1.860 isexe 1.1.2

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* /opt/cola/permits/1137623363_1614109425.1/0/jmespath-java-1-11-201-sources-1-
  jar/com/amazonaws/jmespath/OpGreaterThan.java
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    var x;
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        x = "<br><p>The following are other community resources that may be helpful:<br><br><a href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) 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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* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-
  jar/org/springframework/aop/support/AbstractExpressionPointcut.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-
  jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-
  jar/org/springframework/aop/support/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-
  jar/org/springframework/aop/support/InfrastructureAdvisorAutoProxyCreator.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-
  jar/org/springframework/aop/support/AfterReturningAdvice.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/framework/adapter/PoolingConfig.java
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* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/framework/aop/support/DynamicMethodMatcherPointcut.java
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* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/config/PointcutComponentDefinition.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/framework/AopProxyFactory.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/aspectj/AspectJAdvisorUtils.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/before/StaticMethodMatcherPointcut.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/framework/aop/support/StaticMethodMatcherPointcut.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/framework/aop/support/PointcutEntry.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1.jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
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* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-jar/org/springframework/aop/RawTargetAccess.java
* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-jar/org/springframework/aop/config/AspectEntry.java
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* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
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* /opt/cola/permits/1137623466_1614109314.68/0/spring-aop-5-1-12-release-sources-1-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
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 * not use this constructor</i>. Instead, they must use the { @link #BasicInterpreter(int)}
 * version.
 */

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THE BASIC LIBRARY FUNCTIONS
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1.888 netcf 0.2.8-4.el7

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

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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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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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```python
import io, sys
from setuptools import setup

def main():

```
python_version = sys.version_info[:2]
if python_version < (2,7):
    raise SystemExit("Sorry, Python 2.7 or newer required")

package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
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        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

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* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py
1.908 libevent 2.0.21
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1.909 commons-daemon 1.0.13

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* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
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jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/xml/mapping/ContainerElementTypePath.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForReadab
lePartial.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/xml/config/ValidationConfigStaxBuilder.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/AbstractJavaTimeValidator.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/xml/mapping/ConstrainedMethodStaxBuilder.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForYearMonth
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/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/cfg/defs/NotNullDef.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/engine/DefaultClockProvider.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForByte.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfDouble.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/metadata/aggregated/GetterCascadable.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/metadata/descriptor/package-info.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/metadata/aggregated/ReturnValueMetaData.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/package-info.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForMinguoDateTime.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForLocalDate.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/bound/MinValidatorForBigDecimal.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/metadata/aggregated/ReturnValueMetaData.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForOffsetDateTime.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForLocalDateTime.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMinValidatorForCharSequence.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/hv/URLValidator.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/group/GroupSequenceProvider.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/hv/ParameterScriptAssertValidator.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/group/GroupSequenceProvider.java
/opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/hv/ParameterScriptAssertValidator.java
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jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/InterpolationTermState.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/metadata/aggregated/PropertyMetaData.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/metadata/provider/ProgrammaticMetaDataProvider.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMinValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForLong.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/metadata/descriptor/ContainerElementTypeDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredFields.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/AbstractFutureOrPresentJavaTimeV
DateTime.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/constraints/Length.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/CurrencyValidatorForMonetaryAmount.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/internal/logging/Messages.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/internal/engine/resolver/CachingJPATraversableResolverForSingleValidation.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/conf/defs/CreditCardNumberDef.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/constraints/br/CNPJ.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/parameternameprovider/ParanamerParameterNameProvider.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sig/NotNegativeValidatorForShort.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/AbstractMaxValidator.java
jar/org/hibernate/validator/cfg/defs/br/CNPJDef.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/util/CollectionHelper.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/engine/DefaultParameterNameProvider.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/engine/constraintdefinition/ConstraintDefinitionContribution.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/metadata/aggregated/BeanMetaData.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/engine/ServiceLoaderBasedConstraintMappingContributor.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/util/privilegedactions/GetAnnotationAttributes.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/engine/messageinterpolation/el/RootResolver.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMaxValidatorForCharSequence.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/constraints/br/package-info.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForMonthDay.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForReadablePartial.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/spi/scripting/ScriptEvaluator.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/util/privilegedactions/LoadClass.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/package-info.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources.jar/org/hibernate/validator/cfg/context/CrossParameterTarget.java

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jar/org/hibernate/validator/internal/util/privilegedactions/GetAnnotationAttribute.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/messageinterpolation/ResourceBundleMessageInterpolator.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForFloat.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/StringHelper.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/classhierarchy/Filter.java
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jar/org/hibernate/validator/internal/ideal/constraintvalidators/bv/PatternValidator.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/messageinterpolation/ParameterTermResolver.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForInteger.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/metadata/aggregated/FieldCascadable.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/xml/mapping/AbstractOneLineStringStaxBuilder.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/constraintvalidators/bv/number/sign/PositiveOrZeroValidatorForBigDecimal.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/constraintvalidators/bv/number/bound/MaxValidatorForFloat.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/constraintvalidators/bv/time/past/PastValidatorForYearMonth.java
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jar/org/hibernate/validator/internal/ideal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForJapaneseDate.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/constraintvalidators/bv/number/sign/NegativeValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/ideal/constraintvalidators/RegexpURLValidator.java
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jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParalleMethodsMustNotDefineParameterConstraints.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintValidatorManager.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/metadata/location/GetterConstraintLocation.java
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/notempty/NotEmptyValidatorForCollection.java

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 *
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 */

/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 *
 * @param executable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/internal/configuration/PropertyConstraintMappingContextImpl.java

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* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/internal/util/TypeHelper.java
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*/

/**
* <p>
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* [@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
*/
* }  
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
* 
* @author Gunnar Morling

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070667431_1594726833.47/0/hibernate-validator-6-0-19-final-sources-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

1.913 fuse 2.9.2 11.el7

1.913.1 Available under license:

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The GNU LGPL applies to the CUPS and CUPS Imaging libraries located in the "cups" and "filter" subdirectories of the CUPS source distribution and the files in the "test" subdirectory. The GNU GPL applies to the remainder of the CUPS distribution.

For those not familiar with the GNU GPL, the license basically allows you to:

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- Distribute verbatim copies of the software in source or binary form.
- Sell verbatim copies of the software for a media fee, or sell support for the software.

What this license *does not* allow you to do is make changes or add features to CUPS and then sell a binary distribution without source code. You must provide source for any changes or additions to the software, and all code must be provided under the GPL or LGPL as appropriate. The only exceptions to this are the portions of the CUPS software covered by the Apple operating system license exceptions outlined later in this license agreement.

The GNU LGPL relaxes the "link-to" restriction, allowing you to develop applications that use the CUPS and CUPS Imaging libraries under other licenses and/or conditions as appropriate for your application, driver, or filter.

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Version 2, June 1991

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Preamble

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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.

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

Preamble

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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.

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

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

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

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

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

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

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

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   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
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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.

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1.923 indent-string 1.2.2

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1.927 ms 2.0.0

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1.928 at-spi2-core 2.28.0-1
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.929 express-jwt 0.2.2

1.929.1 Available under license:

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`# express-jwt`

[![Build](https://travis-ci.org/auth0/express-jwt.png)](http://travis-ci.org/auth0/express-jwt)

Middleware that validates JsonWebTokens and set `req.user`.

This module lets you authenticate HTTP requests using JWT tokens, in your Node.js applications. JWT tokens are typically used protect API endpoints, and are often issued using OpenID Connect.

## Install

`$ npm install express-jwt`

## Usage

The JWT authentication middleware authenticates callers using a JWT token. If the token is valid, `req.user` will be set with the JSON object decoded to be used by later middleware for authorization and access control.

For example,

```javascript
var jwt = require('express-jwt');

app.get('/protected',
  jwt({secret: 'shhhhhhared-secret'}),
  function(req, res) {
    if (!req.user.admin) return res.send(401);
    res.send(200);
  });
```

You can specify audience and/or issuer as well

```javascript
jwt({
  secret: 'shhhhhhared-secret',
  audience: 'http://myapi/protected',
  issuer: 'http://issuer'
})
```

> If the JWT has an expiration (`exp`), it will be checked.
Optionally you can add paths for the middleware to skip

```javascript
app.use(jwt({ secret: 'shhhhhhared-secret', skip: ['/token']});
```

This is especially useful when applying to multiple routes.

This module also supports tokens signed with public/private key pairs. Instead of a secret, you can specify a Buffer with the public key

```javascript
var publicKey = fs.readFileSync('/pat/to/public.pub');
jwt({ secret: publicKey });
```

## Related Modules

- [jsonwebtoken](https://github.com/auth0/node-jsonwebtoken) JSON Web Token sign and verification

## Tests

```
$ npm install
$ npm test
```

## Credits

- [Matias Woloski](http://github.com/woloski)

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* /opt/cola/permits/1301511224_1649254400.76/0/express-jwt-0-2-2-tgz/package/README.md

1.930 asm-repackaged 2.5.0

1.931 spring-boot-starter-actuator

2.2.7.RELEASE
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<name>Apache License, Version 2.0</name>

Found in path(s):

1.932 ntplib 0.3.2

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from setuptools import setup

long_description = """
ntplib - Python NTP library
===========================
Description
-------------

This module offers a simple interface to query NTP servers from Python.

It also provides utility functions to translate NTP fields values to text (mode, leap indicator...). Since it's pure Python, and only depends on core modules, it should work on any platform with a Python implementation.

Example
--------

>>> import ntplib
>>> from time import ctime
>>> c = ntplib.NTPClient()
>>> response = c.request('europe.pool.ntp.org', version=3)
>>> response.offset
-0.143156766891
>>> response.version
3
>>> ctime(response.tx_time)
'Sun May 17 09:32:48 2009'
>>> ntplib.leap_to_text(response.leap)
'no warning'
>>> response.root_delay
0.0046844482421875
>>> ntplib.ref_id_to_text(response.ref_id)
193.190.230.66

Installation

-----------

As root:

# python setup.py install

or just copy ntplib.py inside a directory in your sys.path, e.g.
`/usr/lib/python2.5/`

```python
setup(name='ntplib',
      version='0.3.4',
      description='Python NTP library',
      author='Charles-Francois Natali',
      author_email='cf.natali@gmail.com',
      url='https://github.com/cf-natali/ntplib',
      py_modules=['ntplib'],
      license='MIT',
      classifiers=[
          'License :: OSI Approved :: MIT License',
          'Programming Language :: Python',
          'Operating System :: OS Independent',
          'Topic :: System :: Networking :: Time Synchronization'
      ],
      long_description=long_description)
```

Found in path(s):
* /opt/cola/permits/1192996331_1649973205.56/0/ntplib-0.3.4.zip/ntplib-0.3.4/setup.py

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version 0.3.3 - 2015-07-27
--------------------------
- Change to more permissive MIT license

version 0.3.2 - 2014-02-02
--------------------------
- PEP8 cleanup
- Update descriptions to match RFC 5905. Patch by Yann Ilas.

version 0.3.1 - 2013-07-03
--------------------------
- cleanup
- update FSF address

version 0.3.0 - 2012-09-01
--------------------------
- add a `timeout` parameter to NTPClient.request()
- rewrite tests using the unittest module, add many tests
- cleanup

version 0.2.0 - 2012-04-01
--------------------------
- cleanup
- raise a NTPException when no response is received from server

version 0.1.8 - 2010-02-20
--------------------------
- change to LGPL license
- cleanup

version 0.1.7 - 2009-12-24
--------------------------
- cleanup
- fix delay computation (thanks to Michael FrÃ¨re for pointing that out)

version 0.1.6 - 2009-11-01
--------------------------
- cleanup
- when the server doesn't respond within a reasonable interval, let the application handle socket.timeout

version 0.1.5 - 2009-07-13
--------------------------
- perform stricter source check upon reception of a response
- small cleanup
Open Source Used In NFVIS Branch Virtualization 4.8.1  6794

version 0.1.4 - 2009-06-04
--------------------------
- add properties to NTPStats to have timestamps converted to local time

version 0.1.3 - 2009-05-18
--------------------------
- fix root delay and root dispersion computation

version 0.1.2 - 2009-05-17
--------------------------
- create request packet after name resolution to avoid name resolution delay

version 0.1.1 - 2009-05-16
--------------------------
- cleanup to conform to PEP 8
- when the server doesn't respond within a reasonable interval, raise a
  NTPException instead of a socket.timeout
- change initial values used to check the source address in NTPClient.request
to (None, None), simpler and cleaner

version 0.1.0 - 2009-05-14
--------------------------
- initial release

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* /opt/cola/permits/1192996331_1649973205.56/0/ntplib-0-3-4-zip/ntplib-0.3.4/CHANGELOG

1.933 asm-util 7.1

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  jar/org/objectweb/asm/util/CheckFieldAdapter.java
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 */

Found in path(s):
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* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-jar/org/objectweb/asm/util/ASMifiable.java
* /opt/cola/permits/1135892376_1613626859.73/0/asm-util-7-1-sources-2-
1.934 swagger-jersey2-jaxrs 1.5.16

1.935 jackson-module-parameter-names

2.10.4

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1.936 configobj 4.7.2
1.936.1 Available under license :
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===================================
Validation Schema with validate.py
===================================

Open Source Used In NFVIS Branch Virtualization 4.8.1 6799
Introduction

Validation is used to check that supplied values conform to a specification.

The value can be supplied as a string, e.g. from a config file. In this case
the check will also *convert* the value to the required type. This allows you
to add validation as a transparent layer to access data stored as strings. The
validation checks that the data is correct *and* converts it to the expected
type.

Checks are also strings, and are easy to write. One generic system can be used
to validate information from different sources via a single consistent
mechanism.

Checks look like function calls, and map to function calls. They can include
parameters and keyword arguments. These arguments are passed to the relevant
function by the ``Validator`` instance, along with the value being checked.

The syntax for checks also allows for specifying a default value. This default
value can be ``None``, no matter what the type of the check. This can be used
to indicate that a value was missing, and so holds no useful value.
Functions either return a new value, or raise an exception. See `Validator Exceptions`_ for the low down on the exception classes that ``validate.py`` defines.

Some standard functions are provided, for basic data types; these come built into every validator. Additional checks are easy to write: they can be provided when the ``Validator`` is instantiated, or added afterwards.

Validate was primarily written to support ConfigObj_, but is designed to be applicable to many other situations.

For support and bug reports please use the ConfigObj `Mailing List`_.

.. _ConfigObj: http://www.voidspace.org.uk/python/configobj.html

Downloading
============

The current version is **1.0.1**, dated 9th January 2010.

You can get obtain validate in the following ways:

Files
-----

* validate.py_ from Voidspace

* configobj.zip from Voidspace - See the homepage of ConfigObj_ for the latest version and download links.

  This contains validate.py and `this document`_. (As well as ConfigObj_ and the ConfigObj documentation).

* The latest development version can be obtained from the `Subversion Repository`_.

Documentation
-------------

*configobj.zip* contains `this document`_.

* You can view `this document`_ online as the `Validate Homepage`_.

.. _validate.py: http://www.voidspace.org.uk/cgi-bin/voidspace/download/validate.py
.. _configobj.zip: http://www.voidspace.org.uk/cgi-bin/voidspace/download/configobj-4.7.0.zip
.. _validate.py: http://www.voidspace.org.uk/cgi-bin/voidspace/download/validate.py
The standard functions
======================

The standard functions come built-in to every ``Validator`` instance. They work with the following basic data types:

* integer
* float
* boolean
* string
* ip_addr

plus lists of these datatypes.

Adding additional checks is done through coding simple functions.

The full set of standard checks are:

:integer: matches integer values (including negative). Takes optional 'min' and 'max' arguments:

   integer()
   integer(3, 9)  # any value from 3 to 9
   integer(min=0) # any positive value
   integer(max=9)

:float: matches float values
   Has the same parameters as the integer check.

:boolean: matches boolean values: ``True`` or ``False``.
   Acceptable string values for True are:

   true, on, yes, 1

   Acceptable string values for False are:

   false, off, no, 0

   Any other value raises an error.

:string: matches any string. Takes optional keyword args 'min' and 'max' to specify min and max length of string.
::ip_addr:: matches an Internet Protocol address, v.4, represented by a
dotted-quad string, i.e. '1.2.3.4'.

::list:: matches any list. Takes optional keyword args 'min', and 'max' to
specify min and max sizes of the list. The list checks always
return a list.

::force_list:: matches any list, but if a single value is passed in will
coerce it into a list containing that value. Useful for
configobj if the user forgot the trailing comma to turn
a single value into a list.

::tuple:: matches any list. This check returns a tuple rather than a list.

::int_list:: Matches a list of integers. Takes the same arguments as list.

::float_list:: Matches a list of floats. Takes the same arguments as list.

::bool_list:: Matches a list of boolean values. Takes the same arguments as
list.

::string_list:: Matches a list of strings. Takes the same arguments as list.

::ip_addr_list:: Matches a list of IP addresses. Takes the same arguments as
list.

::mixed_list:: Matches a list with different types in specific positions.
List size must match the number of arguments.

Each position can be one of::

    int, str, boolean, float, ip_addr

So to specify a list with two strings followed by two integers,
you write the check as::

    mixed_list(str, str, int, int)

::pass:: matches everything: it never fails and the value is unchanged. It is
also the default if no check is specified.

::option:: matches any from a list of options.
You specify this test with::

    option('option 1', 'option 2', 'option 3')

The following code will work without you having to specifically add the
functions yourself.
from validate import Validator
#
vtor = Validator()
newval1 = vtor.check('integer', value1)
newval2 = vtor.check('boolean', value2)
#

.. note::

Of course, if these checks fail they raise exceptions. So you should wrap them in `try...except` blocks. Better still, use ConfigObj for a higher level interface.

Using Validator
===============

Using `Validator` is very easy. It has one public attribute and one public method.

Shown below are the different steps in using `Validator`.

The only additional thing you need to know, is about `Writing check functions`.

Instantiate
--------

.. code-block:: python

    from validate import Validator
    vtor = Validator()

or even :

.. code-block:: python

    from validate import Validator
    #
    fdict = {
        'check_name1': function1,
        'check_name2': function2,
        'check_name3': function3,
    }
    #
vtor = Validator(fdict)

The second method adds a set of your functions as soon as your validator is created. They are stored in the ``vtor.functions`` dictionary. The 'key' you give them in this dictionary is the name you use in your checks (not the original function name).

Dictionary keys/functions you pass in can override the built-in ones if you want.

Adding functions
-----------------

The code shown above, for adding functions on instantiation, has exactly the same effect as the following code:

```python
from validate import Validator
#
vtor = Validator()
vtor.functions['check_name1'] = function1
vtor.functions['check_name2'] = function2
vtor.functions['check_name3'] = function3
```

``vtor.functions`` is just a dictionary that maps names to functions, so we could also have called``vtor.functions.update(fdict)``.

Writing the check
-----------------

As we've heard, the checks map to the names in the ``functions`` dictionary. You've got a full list of `The standard functions` and the arguments they take.

If you're using ``Validator`` from ConfigObj, then your checks will look like:

```
keyword = int_list(max=6)
```

but the check part will be identical.

The check method
-----------------
If you're not using `Validator` from ConfigObj, then you'll need to call the `check` method yourself.

If the check fails then it will raise an exception, so you'll want to trap that. Here's the basic example:

```python
from validate import Validator, ValidateError

#
vtor = Validator()
check = "integer(0, 9)"
value = 3
try:
    newvalue = vtor.check(check, value)
except ValidateError:
    print 'Check Failed.'
else:
    print 'Check passed.'
```

**caution:**

Although the value can be a string, if it represents a list it should already have been turned into a list of strings.

**Default Values**

Some values may not be available, and you may want to be able to specify a default as part of the check.

You do this by passing the keyword `missing=True` to the `check` method, as well as a `default=value` in the check. (Constructing these checks is done automatically by ConfigObj: you only need to know about the `default=value` part):

```python
check1 = 'integer(default=50)'
check2 = 'option("val 1", "val 2", "val 3", default="val 1")'

assert vtor.check(check1, '', missing=True) == 50
assert vtor.check(check2, '', missing=True) == "val 1"
```

If you pass in `missing=True` to the check method, then the actual value is
ignored. If no default is specified in the check, a `ValidateMissingValue` exception is raised. If a default is specified then that is passed to the check instead.

If the check has `'default=None` (case sensitive) then `vtor.check` will *always* return `'None` (the object). This makes it easy to tell your program that this check contains no useful value when missing, i.e. the value is optional, and may be omitted without harm.

.. note::

   As of version 0.3.0, if you specify `'default='None`` (note the quote marks around `'None``) then it will be interpreted as the string `'None``.

List Values
~~~~~~~~~~

It's possible that you would like your default value to be a list. It's even possible that you will write your own check functions - and would like to pass them keyword arguments as lists from within the check.

To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `'default` value. This makes checks look something like:

   checkname(default=list('val1', 'val2', 'val3'))

get_default_value
-----------------``Validator`` instances have a `get_default_value` method. It takes a `check` string (the same string you would pass to the `check` method) and returns the default value, converted to the right type. If the check doesn't define a default value then this method raises a ` KeyError`.

If the `check` has been seen before then it will have been parsed and cached already, so this method is not expensive to call (however the conversion is done each time).

Validator Exceptions
---------------------``
If you only use Validator through ConfigObj, it traps these Exceptions for you. You will still need to know about them for writing your own check functions.

``vtor.check`` indicates that the check has failed by raising an exception. The appropriate error should be raised in the check function.

The base error class is ``ValidateError``. All errors (except for ``VdtParamError``) raised are sub-classes of this.

If an unrecognised check is specified then ``VdtUnknownCheckError`` is raised.

There are also ``VdtTypeError`` and ``VdtValueError``.

If incorrect parameters are passed to a check function then it will (or should) raise ``VdtParamError``. As this indicates *programmer* error, rather than an error in the value, it is a subclass of ``SyntaxError`` instead of ``ValidateError``.

.. note::

This means it *won't* be caught by ConfigObj - but propagated instead.

If the value supplied is the wrong type, then the check should raise ``VdtTypeError``. e.g. the check requires the value to be an integer (or representation of an integer) and something else was supplied.

If the value supplied is the right type, but an unacceptable value, then the check should raise ``VdtValueError``. e.g. the check requires the value to be an integer (or representation of an integer) less than ten and a higher value was supplied.

Both ``VdtTypeError`` and ``VdtValueError`` are initialised with the incorrect value. In other words you raise them like this:

.. code-block:: python

   raise VdtTypeError(value)
   #
   raise VdtValueError(value)

``VdtValueError`` has the following subclasses, which should be raised if they are more appropriate.

* ``VdtValueTooSmallError``
* ``VdtValueTooBigError``
* ``VdtValueTooShortError``
Writing check functions
=======================

Writing check functions is easy.

The check function will receive the value as its first argument, followed by any other parameters and keyword arguments.

If the check fails, it should raise a `VdtTypeError` or a `VdtValueError` (or an appropriate subclass).

All parameters and keyword arguments are *always* passed as strings. (Parsed from the check string).

The value might be a string (or list of strings) and need converting to the right type - alternatively it might already be a list of integers. Our function needs to be able to handle either.

If the check passes then it should return the value (possibly converted to the right type).

And that's it!

Example
------

Here is an example function that requires a list of integers. Each integer must be between 0 and 99.

It takes a single argument specifying the length of the list. (Which allows us to use the same check in more than one place). If the length can't be converted to an integer then we need to raise a `VdtParamError`.

Next we check that the value is a list. Anything else should raise a `VdtTypeError`. The list should also have 'length' entries. If the list has more or less entries then we will need to raise a `VdtValueTooShortError` or a `VdtValueTooLongError`.

Then we need to check every entry in the list. Each entry should be an integer between 0 and 99, or a string representation of an integer between 0 and 99. Any other type is a `VdtTypeError`, any other value is a `VdtValueError` (either too big, or too small).

.. code-block:: python
def special_list(value, length):
    """
    Check that the supplied value is a list of integers,
    with 'length' entries, and each entry between 0 and 99.
    """
    # length is supplied as a string
    # we need to convert it to an integer
    try:
        length = int(length)
    except ValueError:
        raise VdtParamError('length', length)
    # Check the supplied value is a list
    if not isinstance(value, list):
        raise VdtTypeError(value)
    # check the length of the list is correct
    if len(value) > length:
        raise VdtValueTooLongError(value)
    elif len(value) < length:
        raise VdtValueTooShortError(value)
    # Next, check every member in the list
    # converting strings as necessary
    out = []
    for entry in value:
        if not isinstance(entry, (str, unicode, int)):
            # a value in the list
            # is neither an integer nor a string
            raise VdtTypeError(entry)
        elif isinstance(entry, (str, unicode)):
            if not entry.isdigit():
                raise VdtTypeError(entry)
        else:
            entry = int(entry)
            if entry < 0:
                raise VdtValueTooSmallError(entry)
            elif entry > 99:
                raise VdtValueTooBigError(entry)
        out.append(entry)
    # if we got this far, all is well
    # return the new list
    return out

If you are only using validate from ConfigObj then the error type (*TooBig*, *TooSmall*, etc) is lost - so you may only want to raise \``VdtValueError``\.
.. caution::

If your function raises an exception that isn't a subclass of
``ValidateError``, then ConfigObj won't trap it. This means validation will
fail.

This is why our function starts by checking the type of the value. If we
are passed the wrong type (e.g. an integer rather than a list) we get a
``VdtTypeError`` rather than bombing out when we try to iterate over
the value.

If you are using validate in another circumstance you may want to create your
own subclasses of ``ValidateError`` which convey more specific information.

Known Issues
============

The following parses and then blows up. The resulting error message
is confusing:

``checkname(default=list(1, 2, 3, 4))``

This is because it parses as: ``checkname(default="list(1", 2, 3, 4)``.
That isn't actually unreasonable, but the error message won't help you
work out what has happened.

TODO
=====

* A regex check function ?
* A timestamp check function ? (Using the ``parse`` function from ``DateUtil`` perhaps).

ISSUES
======

.. note::

Please file any bug reports to `Michael Foord`_ or the ConfigObj
`Mailing List`_.

If we could pull tuples out of arguments, it would be easier
to specify arguments for 'mixed_lists'.
CHANGELOG

2009/10/25 - Version 1.0.1
* BUGFIX: Fixed compatibility with Python 2.3.

2009/04/13 - Version 1.0.0
* BUGFIX: can now handle multiline strings.
* Addition of 'force_list' validation option.

As the API is stable and there are no known bugs or outstanding feature requests I am marking this 1.0.

2008/02/24 - Version 0.3.2
BUGFIX: Handling of None as default value fixed.

2008/02/05 - Version 0.3.1
BUGFIX: Unicode checks no longer broken.

2008/02/05 - Version 0.3.0
Improved performance with a parse cache.

New `get_default_value` method. Given a check it returns the default value (converted to the correct type) or raises a `KeyError` if the check doesn't specify a default.

Added 'tuple' check and corresponding 'is_tuple' function (which always returns a tuple).

BUGFIX: A quoted 'None' as a default value is no longer treated as None, but as the string 'None'.

BUGFIX: We weren't unquoting keyword arguments of length two, so an empty string didn't work as a default.

BUGFIX: Strings no longer pass the 'is_list' check. Additionally, the list checks always return lists.
A couple of documentation bug fixes.

Removed CHANGELOG from module.

2007/02/04    Version 0.2.3
--------------------------

Release of 0.2.3

2006/12/17    Version 0.2.3-alpha1
--------------------------

By Nicola Larosa

Fixed validate doc to talk of ``boolean`` instead of ``bool``; changed the ``is_bool`` function to ``is_boolean`` (Sourceforge bug #1531525).

2006/04/29    Version 0.2.2
--------------------------

Addressed bug where a string would pass the ``is_list`` test. (Thanks to Konrad Wojas.)

2005/12/16    Version 0.2.1
--------------------------

Fixed bug so we can handle keyword argument values with commas.

We now use a list constructor for passing list values to keyword arguments (including ``default``):

```
default=list("val", "val", "val")
```

Added the ``_test`` test.

Moved a function call outside a try...except block.

2005/08/18    Version 0.2.0
--------------------------

Updated by `Michael Foord` and `Nicola Larosa`
Does type conversion as well.

2005/02/01  Version 0.1.0
------------------------

Initial version developed by `Michael Foord`_ and Mark Andrews.

Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/docs/validate.txt

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# Released subject to the BSD License

Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/test_configobj.py
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/extras/ConfigPersist.py
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/configobj.py

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Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/docs/configobj.html

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Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/setup_validate.py
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/setup.py
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/validate.py

No license file was found, but licenses were detected in source scan.

/*
 * Authors: Ian Bicking, Michael Foord
 * Contact: fuzzyman@voidspace.org.uk
 * Date: 2005/08/26
 * Version: 0.1.0
 * Copyright: This stylesheet has been placed in the public domain.

Stylesheet for Docutils.
Based on `blue_box.css` by Ian Bicking
and `default.css` revision 3442
*/

Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/docs/docutils.css

No license file was found, but licenses were detected in source scan.

<tr class="field"><th class="docinfo-name">License:</th><td class="field-body"><a class="reference external" href="http://www.voidspace.org.uk/python/license.shtml">BSD License</a></td>

Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/docs/validate.html

No license file was found, but licenses were detected in source scan.

/*
 * Author: David Goodger (goodger@python.org)
 * Id: $Id: html4css1.css 5951 2009-05-18 18:03:10Z milde $
 * Copyright: This stylesheet has been placed in the public domain.

Default cascading style sheet for the HTML output of Docutils.

See http://docutils.sf.net/docs/howto/html-stylesheets.html for how to
customize this style sheet.
*/

Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/docs/default.css
No license file was found, but licenses were detected in source scan.

Reading and Writing Config Files

ConfigObj 4 Introduction and Reference

Authors: Michael Foord, Nicola Larosa
Version: ConfigObj 4.7.2
Date: 2010/02/27
Homepage: `ConfigObj Homepage`_
PyPI Entry: `ConfigObj on PyPI <http://pypi.python.org/pypi/configobj/>`_
Development: `Google Code Homepage`_
License: `BSD License`_
Support: `Mailing List`_

.. _Mailing List: http://lists.sourceforge.net/lists/listinfo/configobj-develop
.. _Google Code Homepage: http://code.google.com/p/configobj/

.. meta::
   description: ConfigObj - a Python module for easy reading and writing of config files.
   keywords: python, script, module, config, configuration, data, persistence, developer, configparser

.. contents:: ConfigObj Manual
   .. sectnum::

   note::

   The best introduction to working with ConfigObj, including the powerful configuration validation system, is the article:

   * `An Introduction to ConfigObj <http://www.voidspace.org.uk/python/articles/configobj.shtml>`_

Introduction

ConfigObj is a simple but powerful config file reader and writer: an *ini file round tripper*. Its main feature is that it is very easy to use, with a straightforward programmer's interface and a simple syntax for config files. It has lots of other features though:

* Nested sections (subsections), to any level
* List values
* Multiple line values
* String interpolation (substitution)
* Integrated with a powerful validation system

  - including automatic type checking/conversion
  - repeated sections
  - and allowing default values

* When writing out config files, ConfigObj preserves all comments and the order of members and sections
* Many useful methods and options for working with configuration files (like the 'reload' method)
* Full Unicode support

For support and bug reports please use the ConfigObj `Mailing List`_ or the issue tracker on the
`Google Code Homepage`_.

Downloading
============

The current version is **4.7.2**, dated 27th February 2010. ConfigObj 4 is
stable and mature. We still expect to pick up a few bugs along the way though [#]_.

You can get ConfigObj in the following ways :

* configobj.py_ from Voidspace

  ConfigObj has no external dependencies. This file is sufficient to access
  all the functionality except Validation_.

* configobj.zip_ from Voidspace

  This also contains validate.py_ and `this document`_.

* validate.py_ from Voidspace

Installing
----------

ConfigObj has a source distribution `on PyPI <http://pypi.python.org/pypi/configobj>`_. If you unzip
the archive you can install it with::

```
setup.py install
```

Alternatively, you can install with easy install or pip::
easy_install configobj

Documentation

*configobj.zip* also contains `this document`.

* You can view `this document` online at the `ConfigObj Homepage`.

Development Version

It is sometimes possible to get the latest *development version* of ConfigObj from the Subversion Repository maintained on the `Google Code Homepage`.

.. _configobj.py: http://www.voidspace.org.uk/downloads/configobj.py
.. _configobj.zip: http://www.voidspace.org.uk/downloads/configobj-4.7.2.zip
.. _validate.py: http://www.voidspace.org.uk/downloads/validate.py
.. _this document:
.. _configobj homepage: http://www.voidspace.org.uk/python/configobj.html

ConfigObj in the Real World

**ConfigObj** is widely used. Projects using it include:

* `Bazaar <http://bazaar-ng.org>`_.

  Bazaar is a Python distributed [acro;VCS;Version Control System].
  ConfigObj is used to read `bazaar.conf` and `branches.conf`.

* `Chandler <http://chandler.osafoundation.org/>`_.

  A Python and `wxPython <http://www.wxpython.org>`_.
  Personal Information Manager, being developed by the `OSAFoundation <http://www.osafoundation.org/>`_.

* `matplotlib <http://matplotlib.sourceforge.net/>`_.

  A 2D plotting library.

* `IPython <http://ipython.scipy.org/moin/>`_.

  IPython is an enhanced interactive Python shell. IPython uses ConfigObj in a module called 'TConfig' that
combines it with enthought `Traits <http://code.enthought.com/traits/>`_: `tconfig

* Elisa - the Fluendo Mediacenter <http://elisa.fluendo.com/>*  

Elisa is an open source cross-platform media center solution designed to be simple for people not particularly familiar with computers.

Getting Started

The outstanding feature of using ConfigObj is simplicity. Most functions can be performed with single line commands.

Reading a Config File

The normal way to read a config file, is to give ConfigObj the filename :

.. code-block:: python

    from configobj import ConfigObj
    config = ConfigObj(filename)

You can also pass the config file in as a list of lines, or a `StringIO` instance, so it doesn't matter where your config data comes from.

You can then access members of your config file as a dictionary. Subsections will also be dictionaries.

.. code-block:: python

    from configobj import ConfigObj
    config = ConfigObj(filename)
    #
    value1 = config['keyword1']
    value2 = config['keyword2']
    #
    section1 = config['section1']
    value3 = section1['keyword3']
    value4 = section1['keyword4']
    #
    # you could also write
    value3 = config['section1']['keyword3']
    value4 = config['section1']['keyword4']
Writing a Config File

Creating a new config file is just as easy as reading one. You can specify a filename when you create the ConfigObj, or do it later [#]_.

If you *don’t* set a filename, then the `write` method will return a list of lines instead of writing to file. See the `write`_ method for more details.

Here we show creating an empty ConfigObj, setting a filename and some values, and then writing to file:

```python
from configobj import ConfigObj
config = ConfigObj()
config.filename = filename
#
config['keyword1'] = value1
config['keyword2'] = value2
#
config['section1'] = {
    'keyword3': value3,
    'keyword4': value4
}
section2 = {
    'keyword5': value5,
    'keyword6': value6,
    'sub-section': {
        'keyword7': value7
    }
}
config['section2'] = section2
#
config['section3'] = {
    'keyword 8': [value8, value9, value10],
    'keyword 9': [value11, value12, value13]
}
config.write()
```

.. caution::

Keywords and section names can only be strings [#]_. Attempting to set anything else will raise a ``ValueError``.
See `String Interpolation and List Values` for an important note on using lists in combination with `String Interpolation`.

Config Files
------------

The config files that ConfigObj will read and write are based on the 'INI' format. This means it will read and write files created for `ConfigParser`.

Keywords and values are separated by an `=` , and section markers are between square brackets. Keywords, values, and section names can be surrounded by single or double quotes. Indentation is not significant, but can be preserved.

Subsections are indicated by repeating the square brackets in the section marker. You nest levels by using more brackets.

You can have list values by separating items with a comma, and values spanning multiple lines by using triple quotes (single or double).

For full details on all these see `the config file format`. Here's an example to illustrate:

```
# This is the 'initial_comment'
# Which may be several lines
keyword1 = value1
'keyword 2' = 'value 2'

[ "section 1" ]
# This comment goes with keyword 3
keyword 3 = value 3
'keyword 4' = value4, value 5, 'value 6'

[[ sub-section ]]  # an inline comment
# sub-section is inside "section 1"
'keyword 5' = 'value 7'
'keyword 6' = "A multiline value, that spans more than one line :)"
The line breaks are included in the value."

[[[ sub-sub-section ]]]
# sub-sub-section is *in* 'sub-section'
# which is in 'section 1'
'keyword 7' = 'value 8'

[section 2]  # an inline comment
```
keyword8 = "value 9"
keyword9 = value10  # an inline comment
# The 'final_comment'
# Which also may be several lines

ConfigObj specifications
========================

.. code-block:: python

    config = ConfigObj(infile=None, options=None, configspec=None, encoding=None,
                        interpolation=True, raise_errors=False, list_values=True,
                        create_empty=False, file_error=False, stringify=True,
                        indent_type=None, default_encoding=None, unrepr=False,
                        write_empty_values=False, _inspec=False)

Many of the keyword arguments are available as attributes after the config file has been parsed.

.. note::

    New in ConfigObj 4.7.0: Instantiating ConfigObj with
    an `options` dictionary is now deprecated. To modify code that used to
do this simply unpack the dictionary in the constructor call:

    .. code-block:: python

        config = ConfigObj(filename, **options)

ConfigObj takes the following arguments (with the default values shown):

* infile: `None`

You don't need to specify an infile. If you omit it, an empty ConfigObj will be created. infile can be:

* Nothing. In which case the `filename` attribute of your ConfigObj will be
  `None`. You can set a filename at any time.

* A filename. What happens if the file doesn't already exist is determined by
  the options `file_error` and `create_empty`. The filename will be
  preserved as the `filename` attribute. This can be changed at any time.

* A list of lines. Any trailing newlines will be removed from the lines. The
  `filename` attribute of your ConfigObj will be `None`.

* A `StringIO` instance or file object, or any object with a `read` method.
The `filename` attribute of your ConfigObj will be `None`.

* A dictionary. You can initialise a ConfigObj from a dictionary. The `filename` attribute of your ConfigObj will be `None`. All keys must be strings. In this case, the order of values and sections is arbitrary.

* `raise_errors`: `False`

   When parsing, it is possible that the config file will be badly formed. The default is to parse the whole file and raise a single error at the end. You can set `raise_errors = True` to have errors raised immediately. See the exceptions section for more details.

   Altering this value after initial parsing has no effect.

* `list_values`: `True`

   If `True` (the default) then list values are possible. If `False`, the values are not parsed for lists.

   If `list_values = False` then single line values are not quoted or unquoted when reading and writing.

   Changing this value affects whether single line values will be quoted or not when writing.

* `create_empty`: `False`

   If this value is `True` and the file specified by `infile` doesn't exist, ConfigObj will create an empty file. This can be a useful test that the filename makes sense: an impossible filename will cause an error.

   Altering this value after initial parsing has no effect.

* `file_error`: `False`

   If this value is `True` and the file specified by `infile` doesn't exist, ConfigObj will raise an `IOError`.

   Altering this value after initial parsing has no effect.

* `interpolation`: `True`

   Whether string interpolation is switched on or not. It is on (`True`) by default.

   You can set this attribute to change whether string interpolation is done when values are fetched. See the `String Interpolation` section for more details.
New in ConfigObj 4.7.0: Interpolation will also be done in list values.

* 'configspec': `None`

If you want to use the validation system, you supply a configspec. This is effectively a type of config file that specifies a check for each member. This check can be used to do type conversion as well as check that the value is within your required parameters.

You provide a configspec in the same way as you do the initial file: a filename, or list of lines, etc. See the validation_ section for full details on how to use the system.

When parsed, every section has a `configspec` with a dictionary of configspec checks for *that section*.

* 'stringify': `True`

If you use the validation scheme, it can do type checking *and* conversion for you. This means you may want to set members to integers, or other non-string values.

If 'stringify' is set to `True` (default) then non-string values will be converted to strings when you write the config file. The validation_ process converts values from strings to the required type.

If 'stringify' is set to `False`, attempting to set a member to a non-string value [#]_ will raise a `TypeError` (no type conversion is done by validation).

* 'indent_type': `''`

Indentation is not significant; it can however be present in the input and output config. Any combination of tabs and spaces may be used: the string will be repeated for each level of indentation. Typical values are: `''` (no indentation), `'    '` (indentation with four spaces, the default), `'	'` (indentation with one tab).

If this option is not specified, and the ConfigObj is initialised with a dictionary, the indentation used in the output is the default one, that is, four spaces.

If this option is not specified, and the ConfigObj is initialised with a list of lines or a file, the indentation used in the first indented line is selected and used in all output lines. If no input line is indented, no output line will be either.
If this option *is* specified, the option value is used in the output config, overriding the type of indentation in the input config (if any).

* `encoding`: `"None"`

By default **ConfigObj** does not decode the file/strings you pass it into Unicode [#]. If you want your config file as Unicode (keys and members) you need to provide an encoding to decode the file with. This encoding will also be used to encode the config file when writing.

You can change the encoding attribute at any time.

Any characters in your strings that can't be encoded with the specified encoding will raise a `UnicodeEncodeError`.

.. note::

   `UTF16` encoded files will automatically be detected and decoded, even if `encoding` is `None`.

   This is because it is a 16-bit encoding, and ConfigObj will mangle it (split characters on byte boundaries) if it parses it without decoding.

* `default_encoding`: `"None"

When using the `write` method, **ConfigObj** uses the `encoding` attribute to encode the Unicode strings. If any members (or keys) have been set as byte strings instead of Unicode, these must first be decoded to Unicode before outputting in the specified encoding.

`default_encoding`, if specified, is the encoding used to decode byte strings in the **ConfigObj** before writing. If this is `None`, then the Python default encoding (`sys.defaultencoding` - usually ASCII) is used.

For most Western European users, a value of `latin-1` is sensible.

`default_encoding` is *only* used if an `encoding` is specified.

Any characters in byte-strings that can't be decoded using the `default_encoding` will raise a `UnicodeDecodeError`.

* `unrepr`: `False`

The `unrepr` option reads and writes files in a different mode. This allows you to store and retrieve the basic Python data-types using config files.
This uses Python syntax for lists and quoting. See `unrepr mode` for the full details.

* 'write_empty_values': `False`

If `write_empty_values` is `True`, empty strings are written as empty values. See `Empty Values` for more details.

* `_inspec`: `False`

Used internally by ConfigObj when parsing configspec files. If you are creating a ConfigObj instance from a configspec file you must pass True for this argument as well as `list_values=False`.

Methods
-------

The ConfigObj is a subclass of an object called `Section`, which is itself a subclass of `dict`, the builtin dictionary type. This means it also has all the normal dictionary methods.

In addition, the following `Section Methods` may be useful:

* 'restore_default'
* 'restore_defaults'
* 'walk'
* 'merge'
* 'dict'
* 'as_bool'
* 'as_float'
* 'as_int'
* 'as_list'

Read about Sections for details of all the methods.

.. hint::

The *merge* method of sections is a recursive update.

You can use this to merge sections, or even whole ConfigObjs, into each other.

You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default. You can use configspecs and validation to achieve the same thing of course.
The public methods available on ConfigObj are:

* 'write'
* 'validate'
* 'reset'
* 'reload'

write
~~~~~~

.. code-block:: python

    write(file_object=None)

This method writes the current ConfigObj and takes a single, optional argument
[1].

If you pass in a file like object to the `write` method, the config file will
be written to this. (The only method of this object that is used is its
`write` method, so a `StringIO` instance, or any other file like object
will work.)

Otherwise, the behaviour of this method depends on the `filename` attribute
of the ConfigObj.

``filename``
ConfigObj will write the configuration to the file specified.

``None``
``write`` returns a list of lines. (Not `\n` terminated)

First the 'initial_comment' is written, then the config file, followed by the
'final_comment'. Comment lines and inline comments are written with each
key/value.

validate
~~~~~~

.. code-block:: python

    validate(validator, preserve_errors=False, copy=False)

.. code-block:: python
# filename is the config file
# filename2 is the configspec
# (which could also be hardcoded into your program)
config = ConfigObj(filename, configspec=filename2)
#
from validate import Validator
val = Validator()
test = config.validate(val)
if test == True:
    print 'Succeeded.'

The validate method uses the `validate`<http://www.voidspace.org.uk/python/validate.html>`__ module to do the validation.

This method validates the ConfigObj against the configspec. By doing type conversion as well it can abstract away the config file altogether and present the config *data* to your application (in the types it expects it to be).

If the `''configspec'` attribute of the ConfigObj is `''None'`, it raises a `''ValueError``.

If the stringify_ attribute is set, this process will convert values to the type defined in the configspec.

The validate method uses checks specified in the configspec and defined in the `''Validator`` object. It is very easy to extend.

The configspec looks like the config file, but instead of the value, you specify the check (and any default value). See the validation_ section for details.

.. hint::

    The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best guide to them is this article on ConfigObj:

    * `An Introduction to ConfigObj`_

The ```copy``` parameter fills in missing values from the configspec (default values), *without* marking the values as defaults. It also causes comments to be copied from the configspec into the config file. This allows you to use a configspec to create default config files. (Normally default values aren't written out by the ```write``` method.)

As of ConfigObj 4.3.0 you can also pass in a ConfigObj instance as your configspec. This is especially useful if you need to specify the encoding of
your configspec file. When you read your configspec file, you *must* specify `list_values=False`. If you need to support hashes inside the configspec values then you must also pass in `__inspec=True`. This is because configspec files actually use a different syntax to config files and inline comment support must be switched off to correctly read configspec files with hashes in the values.

.. code-block:: python

    from configobj import ConfigObj
    configspec = ConfigObj(configspecfilename, encoding='UTF8',
                           list_values=False, __inspec=True)
    config = ConfigObj(filename, configspec=configspec)

Return Value

By default, the validate method either returns `True` (everything passed) or a dictionary of `True` / `False` representing pass/fail. The dictionary follows the structure of the ConfigObj.

If a whole section passes then it is replaced with the value `True`. If a whole section fails, then it is replaced with the value `False`.

If a value is missing, and there is no default in the check, then the check automatically fails.

The `validate` method takes an optional keyword argument `preserve_errors`. If you set this to `True`, instead of getting `False` for failed checks you get the actual error object from the `validate` module. This usually contains useful information about why the check failed.

See the `flatten_errors` function for how to turn your results dictionary into a useful list of error messages.

Even if `preserve_errors` is `True`, missing keys or sections will still be represented by a `False` in the results dictionary.

Mentioning Default Values

In the check in your configspec, you can specify a default to be used - by using the `default` keyword. E.g. ::

    key1 = integer(0, 30, default=15)
    key2 = integer(default=15)
key3 = boolean(default=True)
key4 = option('Hello', 'Goodbye', 'Not Today', default='Not Today')

If the configspec check supplies a default and the value is missing in the config, then the default will be set in your ConfigObj. (It is still passed to the ``Validator`` so that type conversion can be done: this means the default value must still pass the check.)

ConfigObj keeps a record of which values come from defaults, using the ``defaults`` attribute of sections_. Any key in this list isn't written out by the ``write`` method. If a key is set from outside (even to the same value) then it is removed from the ``defaults`` list.

.. note:

   Even if all the keys in a section are in the defaults list, the section marker is still written out.

There is additionally a special case default value of ``None``. If you set the default value to ``None`` and the value is missing, the value will always be set to ``None``. As the other checks don't return ``None`` (unless you implement your own that do), you can tell that this value came from a default value (and was missing from the config file). It allows an easy way of implementing optional values. Simply check (and ignore) members that are set to ``None``.

.. note::

   If stringify_ is ``False`` then ``default=None`` returns ``''`` instead of ``None``. This is because setting a value to a non-string raises an error if stringify is unset.

The default value can be a list. See `List Values`_ for the way to do this.

Writing invalid default values is a *guaranteed* way of confusing your users. Default values **must** pass the check.

Mentioning Repeated Sections and Values

In the configspec it is possible to cause *every* sub-section in a section to be validated using the same configspec. You do this with a section in the configspec called ``__many__``. Every sub-section in that section has the ``__many__`` configspec applied to it (without you having to explicitly name them in advance).

Your ``__many__`` section can have nested subsections, which can also include
``__many__`` type sections.

You can also specify that all values should be validated using the same configspec, by having a member with the name ``__many__``. If you want to use repeated values along with repeated sections then you can call one of them ``___many___`` (triple underscores).

Sections with repeated sections or values can also have specifically named sub-sections or values. The ``__many__`` configspec will only be used to validate entries that don't have an explicit configspec.

See `Repeated Sections`_ for examples.

**Mentioning SimpleVal**

```````````````````````````````````````````````
If you just want to check if all members are present, then you can use the `SimpleVal` object that comes with ConfigObj. It only fails members if they are missing.

Write a configspec that has all the members you want to check for, but set every section to `''`.

``code-block:: python``

``
val = SimpleVal()

if test is True:
    print 'Succeeded.'
``

**Mentioning copy Mode**

```````````````````````````````````````````````
As discussed in `Mentioning Default Values`_, you can use a configspec to supply default values. These are marked in the ConfigObj instance as defaults, and *not* written out by the `write` mode. This means that your users only need to supply values that are different from the defaults.

This can be inconvenient if you *do* want to write out the default values, for example to write out a default config file.

If you set `copy=True` when you call validate, then no values are marked as defaults. In addition, all comments from the configspec are copied into your ConfigObj instance. You can then call `write` to create your config file.
There is a limitation with this. In order to allow `String Interpolation` to work within configspecs, `DEFAULT` sections are not processed by validation; even in copy mode.

reload
~~~~~~

If a ConfigObj instance was loaded from the filesystem, then this method will reload it. It will also reuse any configspec you supplied at instantiation (including reloading it from the filesystem if you passed it in as a filename).

If the ConfigObj does not have a filename attribute pointing to a file, then a `ReloadError` will be raised.

reset
~~~~~~

This method takes no arguments and doesn't return anything. It restores a ConfigObj instance to a freshly created state.

Attributes
----------

A ConfigObj has the following attributes:

* indent_type
* interpolation
* stringify
* BOM
* initial_comment
* final_comment
* list_values
* encoding
* default_encoding
* unrepr
* write_empty_values
* newlines

.. note::

   This doesn't include *comments*, *inline_comments*, *defaults*, or *configspec*. These are actually attributes of Sections.

It also has the following attributes as a result of parsing. They correspond to options when the ConfigObj was created, but changing them has no effect.
* raise_errors
* create_empty
* file_error

interpolation
~~~~~~~~~~~~~~

ConfigObj can perform string interpolation in a *similar* way to `ConfigParser`. See the `String Interpolation`_ section for full details.

If `interpolation` is set to `False`, then interpolation is *not* done when you fetch values.

stringify
~~~~~~~~~~

If this attribute is set (`True`) then the validate_ method changes the values in the ConfigObj. These are turned back into strings when write_ is called.

If stringify is unset (`False`) then attempting to set a value to a non string (or a list of strings) will raise a `TypeError`.

BOM
~~~

If the initial config file *started* with the UTF8 Unicode signature (known slightly incorrectly as the BOM - Byte Order Mark), or the UTF16 BOM, then this attribute is set to `True`. Otherwise it is `False`.

If it is set to `True` when `write` is called then, if `encoding` is set to `None` or `utf_8` (and variants) a UTF BOM will be written.

For UTF16 encodings, a BOM is *always* written.

initial_comment
~~~~~~~~~~~~~~

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments before the start of the members.

If you create a new ConfigObj, this will be an empty list.
The write method puts these lines before it starts writing out the members.

```
final_comment
```

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments after the last member.

If you create a new ConfigObj, this will be an empty list.

The ``write`` method puts these lines after it finishes writing out the members.

```
list_values
```

This attribute is ``True`` or ``False``. If set to ``False`` then values are not parsed for list values. In addition single line values are not unquoted.

This allows you to do your own parsing of values. It exists primarily to support the reading of the configspec - but has other use cases.

For example you could use the `LineParser` from the `listquote module <http://voidspace.org.uk/python/listquote.html#lineparser>`_ to read values for nested lists.

Single line values aren't quoted when writing - but multiline values are handled as normal.

.. caution::

   Because values aren't quoted, leading or trailing whitespace can be lost. This behaviour was changed in version 4.0.1. Prior to this, single line values might have been quoted; even with ``list_values=False``. This means that files written by earlier versions of ConfigObj *could* now be incompatible and need the quotes removing by hand.

```
encoding
```

This is the encoding used to encode the output, when you call ``write``. It must be a valid encoding `recognised by Python <http://docs.python.org/lib/standard-encodings.html>`_.

If this value is ``None`` then no encoding is done when ``write`` is called.

```
default_encoding
```
If encoding is set, any byte-strings in your ConfigObj instance (keys or members) will first be decoded to Unicode using the encoding specified by the "default_encoding" attribute. This ensures that the output is in the encoding specified.

If this value is "None" then "sys.defaultencoding" is used instead.

unrepr
~~~~~~

Another boolean value. If this is set, then "repr(value)" is used to write values. This writes values in a slightly different way to the normal ConfigObj file syntax.

This preserves basic Python data-types when read back in. See `unrepr mode` for more details.

write_empty_values
~~~~~~~~~~~~~~~~~~

Also boolean. If set, values that are an empty string ('''') are written as empty values. See `Empty Values` for more details.

e newlines
~~~~~

When a config file is read, ConfigObj records the type of newline separators in the file and uses this separator when writing. It defaults to "None", and ConfigObj uses the system default (``os.sep``) if write is called without newlines having been set.

The Config File Format
======================

You saw an example config file in the `Config Files` section. Here is a fuller specification of the config files used and created by ConfigObj.

The basic pattern for keywords is:

```
# comment line
# comment line
keyword = value # inline comment
```
Both keyword and value can optionally be surrounded in quotes. The equals sign is the only valid divider.

Values can have comments on the lines above them, and an inline comment after them. This, of course, is optional. See the comments_ section for details.

If a keyword or value starts or ends with whitespace, or contains a quote mark or comma, then it should be surrounded by quotes. Quotes are not necessary if whitespace is surrounded by non-whitespace.

Values can also be lists. Lists are comma separated. You indicate a single member list by a trailing comma. An empty list is shown by a single comma:

```
keyword1 = value1, value2, value3
keyword2 = value1, # a single member list
keyword3 = , # an empty list
```

Values that contain line breaks (multi-line values) can be surrounded by triple quotes. These can also be used if a value contains both types of quotes. List members cannot be surrounded by triple quotes:

```
keyword1 = """ A multi line value on several lines"""" # with a comment
keyword2 = """I won't be "afraid"."""
#
keyword3 = """" A multi line value on several lines"""" # with a comment
keyword4 = """"I won't be "afraid"."""
```

.. warning::

There is no way of safely quoting values that contain both types of triple quotes.

A line that starts with a '#', possibly preceded by whitespace, is a comment.

New sections are indicated by a section marker line. That is the section name in square brackets. Whitespace around the section name is ignored. The name can be quoted with single or double quotes. The marker can have comments before it and an inline comment after it:

```
# The First Section
[ section name 1 ] # first section
keyword1 = value1
```
Any subsections (sections that are *inside* the current section) are designated by repeating the square brackets before and after the section name. The number of square brackets represents the nesting level of the sub-section. Square brackets may be separated by whitespace; such whitespace, however, will not be present in the output config written by the ``write`` method.

Indentation is not significant, but can be preserved. See the description of the ``indent_type`` option, in the `ConfigObj specifications`_ chapter, for the details.

A *NestingError* will be raised if the number of the opening and the closing brackets in a section marker is not the same, or if a sub-section's nesting level is greater than the nesting level of its parent plus one.

In the outer section, single values can only appear before any sub-section. Otherwise they will belong to the sub-section immediately before them::

```
# initial comment
keyword1 = value1
keyword2 = value2

[section 1]
keyword1 = value1
keyword2 = value2

[[sub-section]]
# this is in section 1
keyword1 = value1
keyword2 = value2

[[[nested section]]]
# this is in sub section
keyword1 = value1
keyword2 = value2

[[sub-section2]]
# this is in section 1 again
keyword1 = value1
keyword2 = value2

[[sub-section3]]
# this is also in section 1, indentation is misleading here
keyword1 = value1
keyword2 = value2
```
# final comment

When parsed, the above config file produces the following data structure:

```python
ConfigObj({
    'keyword1': 'value1',
    'keyword2': 'value2',
    'section 1': {
        'keyword1': 'value1',
        'keyword2': 'value2',
        'sub-section': {
            'keyword1': 'value1',
            'keyword2': 'value2',
            'nested section': {
                'keyword1': 'value1',
                'keyword2': 'value2',
            },
        },
        'sub-section2': {
            'keyword1': 'value1',
            'keyword2': 'value2',
        },
        'sub-section3': {
            'keyword1': 'value1',
            'keyword2': 'value2',
        },
    },
})
```

Sections are ordered: note how the structure of the resulting ConfigObj is in the same order as the original file.

.. note::

In ConfigObj 4.3.0 *empty values* became valid syntax. They are read as the empty string. There is also an option/attribute (``write_empty_values``) to allow the writing of these.

This is mainly to support 'legacy' config files, written from other applications. This is documented under 'Empty Values'_.

`unrepr mode`_ introduces *another* syntax variation, used for storing basic Python datatypes in config files.
Sections
========

Every section in a ConfigObj has certain properties. The ConfigObj itself also
has these properties, because it too is a section (sometimes called the *root
section*).

``Section`` is a subclass of the standard new-class dictionary, therefore it
has **all** the methods of a normal dictionary. This means you can `update`
and `clear` sections.

.. note::

You create a new section by assigning a member to be a dictionary.

The new `Section` is created *from* the dictionary, but isn't the same
thing as the dictionary. (So references to the dictionary you use to create
the section *aren't* references to the new section).

Note the following.

.. code-block:: python

    config = ConfigObj()
    vals = {'key1': 'value 1',
            'key2': 'value 2'}
    config['vals'] = vals
    config['vals'] == vals
    True
    config['vals'] is vals
    False

If you now change `vals`, the changes won't be reflected in `config['vals']`.

A section is ordered, following its `scalars` and `sections`
attributes documented below. This means that the following dictionary
attributes return their results in order.

* `__iter__`

  More commonly known as `for member in section:`.

* `__repr__` and `__str__`

  Any time you print or display the ConfigObj.
* 'items'

* 'iteritems'

* 'iterkeys'

* 'itervalues'

* 'keys'

* 'popitem'

* 'values'

Section Attributes
------------------

* main

A reference to the main ConfigObj.

* parent

A reference to the 'parent' section, the section that this section is a member of.

On the ConfigObj this attribute is a reference to itself. You can use this to walk up the sections, stopping when `section.parent is section`.

* depth

The nesting level of the current section.

If you create a new ConfigObj and add sections, 1 will be added to the depth level between sections.

* defaults

This attribute is a list of scalars that came from default values. Values that came from defaults aren't written out by the `write` method.

Setting any of these values in the section removes them from the defaults list.

* default_values

This attribute is a dictionary mapping keys to the default values for the
keys. By default it is an empty dictionary and is populated when you validate the ConfigObj.

* scalars, sections

These attributes are normal lists, representing the order that members, single values and subsections appear in the section. The order will either be the order of the original config file, *or* the order that you added members.

The order of members in this lists is the order that `write` creates in the config file. The `scalars` list is output before the `sections` list.

Adding or removing members also alters these lists. You can manipulate the lists directly to alter the order of members.

.. warning::

    If you alter the `scalars`, `sections`, or `defaults` attributes so that they no longer reflect the contents of the section, you will break your ConfigObj.

See also the `rename` method.

* comments

This is a dictionary of comments associated with each member. Each entry is a list of lines. These lines are written out before the member.

* inline_comments

This is *another* dictionary of comments associated with each member. Each entry is a string that is put inline with the member.

* configspec

The configspec attribute is a dictionary mapping scalars to *checks*. A check defines the expected type and possibly the allowed values for a member.

The configspec has the same format as a config file, but instead of values it has a specification for the value (which may include a default value). The validate method uses it to check the config file makes sense. If a configspec is passed in when the ConfigObj is created, then it is parsed and broken up to become the `configspec` attribute of each section.

If you didn't pass in a configspec, this attribute will be `None` on the
root section (the main ConfigObj).

You can set the configspec attribute directly on a section.

See the validation_ section for full details of how to write configspecs.

* extra_values

By default an empty list. After validation_ this is populated with any members of the section that don't appear in the configspec (i.e. they are additional values). Rather than accessing this directly it may be more convenient to get all the extra values in a config file using the get_extra_values_ function.

New in ConfigObj 4.7.0.

Section Methods
----------------

* **dict**

This method takes no arguments. It returns a deep copy of the section as a dictionary. All subsections will also be dictionaries, and list values will be copies, rather than references to the original [#]_.

* **rename**

``rename(oldkey, newkey)``

This method renames a key, without affecting its position in the sequence.

* **merge**

``merge(indict)``

This method is a *recursive update* method. It allows you to merge two config files together.

You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default.

For example :

.. code-block:: python

    # def_cfg contains your default config settings
    # user_cfg contains the user settings
cfg = ConfigObj(def_cfg)
usr = ConfigObj(user_cfg)
#
cfg.merge(usr)

***
cfg now contains a combination of the default settings and the user settings.

The user settings will have overwritten any of the default ones.
***

**walk**

This method can be used to transform values and names. See `walking a section` for examples and explanation.

**as_bool**

``as_bool(key)``

Returns `True` if the key contains a string that represents `True`, or is the `True` object.

Returns `False` if the key contains a string that represents `False`, or is the `False` object.

Raises a `ValueError` if the key contains anything else.

Strings that represent `True` are (not case sensitive):

true, yes, on, 1

Strings that represent `False` are:

false, no, off, 0

**as_int**

``as_int(key)``

This returns the value contained in the specified key as an integer.

It raises a `ValueError` if the conversion can't be done.

**as_float**
``as_float(key)`

This returns the value contained in the specified key as a float.

It raises a ``ValueError`` if the conversion can't be done.

``as_list(key)`

This returns the value contained in the specified key as a list.

If it isn't a list it will be wrapped as a list so that you can guarantee the returned value will be a list.

``restore_default(key)`

Restore (and return) the default value for the specified key.

This method will only work for a ConfigObj that was created with a configspec and has been validated.

If there is no default value for this key, ``KeyError`` is raised.

``restore_defaults()`

Recursively restore default values to all members that have them.

This method will only work for a ConfigObj that was created with a configspec and has been validated.

It doesn't delete or modify entries without default values.

Walking a Section

Walking a Section

.. note::

The walk method allows you to call a function on every member/name.
.. code-block:: python

    walk(function, raise_errors=True,
         call_on_sections=False, **kwargs)

``walk`` is a method of the ``Section`` object. This means it is also a method of ConfigObj.

It walks through every member and calls a function on the keyword and value. It walks recursively through subsections.

It returns a dictionary of all the computed values.

If the function raises an exception, the default is to propagate the error, and stop. If ``raise_errors=False`` then it sets the return value for that keyword to `False` instead, and continues. This is similar to the way validation works.

Your function receives the arguments ``(section, key)``. The current value is then ``section[key]``. Any unrecognised keyword arguments you pass to walk, are passed on to the function.

Normally ``walk`` just recurses into subsections. If you are transforming (or checking) names as well as values, then you want to be able to change the names of sections. In this case set ``call_on_sections`` to `True`. Now, on encountering a sub-section, *first* the function is called for the *whole* sub-section, and *then* it recurses into it's members. This means your function must be able to handle receiving dictionaries as well as strings and lists.

If you are using the return value from `walk` and `call_on_sections`, note that walk discards the return value when it calls your function.

.. caution::

    You can use `walk` to transform the names of members of a section but you mustn't add or delete members.

Examples
-------

You can use this for transforming all values in your ConfigObj. For example you might like the nested lists from ConfigObj 3. This was provided by the listquote module. You could switch off the parsing for list values (`list_values=False`) and use listquote to parse every value.
Another thing you might want to do is use the Python escape codes in your values. You might be *used* to using `\n` for line feed and `\t` for tab. Obviously we’d need to decode strings that come from the config file (using the escape codes). Before writing out we’ll need to put the escape codes back in encode.

As an example we’ll write a function to use with walk, that encodes or decodes values using the `string-escape` codec.

The function has to take each value and set the new value. As a bonus we’ll create one function that will do decode or encode depending on a keyword argument.

We don’t want to work with section names, we’re only transforming values, so we can leave `call_on_sections` as `False`. This means the two datatypes we have to handle are strings and lists, we can ignore everything else. (We’ll treat tuples as lists as well).

We’re not using the return values, so it doesn’t need to return anything, just change the values if appropriate.

```python
.. code-block:: python

def string_escape(section, key, encode=False):
    """
    A function to encode or decode using the 'string-escape' codec.
    To be passed to the walk method of a ConfigObj.
    By default it decodes.
    To encode, pass in the keyword argument `encode=True`.
    """
    val = section[key]
    # is it a type we can work with
    # NOTE: for platforms where Python > 2.2
    # you can use basestring instead of (str, unicode)
    if not isinstance(val, (str, unicode, list, tuple)):
        # no!
        return
    elif isinstance(val, (str, unicode)):
        # it's a string!
        if not encode:
            section[key] = val.decode('string-escape')
        else:
            section[key] = val.encode('string-escape')
    else:
        # it must be a list or tuple!
        # we'll be lazy and create a new list
        newval = []
```
# we'll check every member of the list
for entry in val:
    if isinstance(entry, (str, unicode)):
        if not encode:
            newval.append(entry.decode('string-escape'))
        else:
            newval.append(entry.encode('string-escape'))
    else:
        newval.append(entry)
# done!
section[key] = newval

# assume we have a ConfigObj called `config`
#
# To decode
config.walk(string_escape)
#
# To encode.
# Because `walk` doesn't recognise the `encode` argument
# it passes it to our function.
config.walk(string_escape, encode=True)

Here's a simple example of using `walk` to transform names and values. One usecase of this would be to create a *standard* config file with placeholders for section and keynames. You can then use walk to create new config files and change values and member names:

.. code-block:: python

    # We use 'XXXX' as a placeholder
    config = ""
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [XXXXsection1]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [XXXXsection2]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [[XXXXsection1]]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    "".splitlines()
cfg = ConfigObj(config)
#
def transform(section, key):
    val = section[key]
    newkey = key.replace('XXXX', 'CLIENT1')
    section.rename(key, newkey)
    if isinstance(val, (tuple, list, dict)):
        pass
    else:
        val = val.replace('XXXX', 'CLIENT1')
    section[newkey] = val
#
cfg.walk(transform, call_on_sections=True)
print cfg
ConfigObj({'CLIENT1key1': 'CLIENT1value1', 'CLIENT1key2': 'CLIENT1value2',
    'CLIENT1key3': 'CLIENT1value3',
    'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1',
                        'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'},
    'CLIENT1section2': {'CLIENT1key1': 'CLIENT1value1',
                        'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3',
                        'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1',
                                            'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'}}})

Exceptions
=========

There are several places where ConfigObj may raise exceptions (other than because of bugs).

1) If a configspec filename you pass in doesn't exist, or a config file filename doesn't exist *and* ``"file_error=True"``, an `IOError` will be raised.

2) If you try to set a non-string key, or a non string value when `"stringify=False"`, a `TypeError` will be raised.

3) A badly built config file will cause parsing errors.

4) A parsing error can also occur when reading a configspec.

5) In string interpolation you can specify a value that doesn't exist, or create circular references (recursion).

Number 5 (which is actually two different types of exceptions) is documented in `String Interpolation`.

*This* section is about errors raised during parsing.
The base error class is `ConfigObjError`. This is a subclass of `SyntaxError`, so you can trap for `SyntaxError` without needing to directly import any of the ConfigObj exceptions.

The following other exceptions are defined (all deriving from `ConfigObjError`):

* `NestingError`

  This error indicates either a mismatch in the brackets in a section marker, or an excessive level of nesting.

* `ParseError`

  This error indicates that a line is badly written. It is neither a valid `key = value` line, nor a valid section marker line, nor a comment line.

* `DuplicateError`

  The keyword or section specified already exists.

* `ConfigspecError`

  An error occurred whilst parsing a configspec.

* `UnreprError`

  An error occurred when parsing a value in `unrepr mode`.

* `ReloadError`

  `reload` was called on a ConfigObj instance that doesn't have a valid filename attribute.

When parsing a configspec, ConfigObj will stop on the first error it encounters. It will raise a `ConfigspecError`. This will have an `error` attribute, which is the actual error that was raised.

Behaviour when parsing a config file depends on the option `raise_errors`.

If ConfigObj encounters an error while parsing a config file:

If `raise_errors=True` then ConfigObj will raise the appropriate error and parsing will stop.

If `raise_errors=False` (the default) then parsing will continue to the end and *all* errors will be collected.
If `raise_errors` is False and multiple errors are found a `ConfigObjError` is raised. The error raised has a `config` attribute, which is the parts of the ConfigObj that parsed successfully. It also has an attribute `errors`, which is a list of *all* the errors raised. Each entry in the list is an instance of the appropriate error type. Each one has the following attributes (useful for delivering a sensible error message to your user):

* `line`: the original line that caused the error.

* `line_number`: its number in the config file.

* `message`: the error message that accompanied the error.

If only one error is found, then that error is re-raised. The error still has the `config` and `errors` attributes. This means that your error handling code can be the same whether one error is raised in parsing, or several.

It also means that in the most common case (a single error) a useful error message will be raised.

.. note::

   One wrongly written line could break the basic structure of your config file. This could cause every line after it to flag an error, so having a list of all the lines that caused errors may not be as useful as it sounds.

Validation
==========

.. hint::

   The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best reference is my article on ConfigObj:

   * `An Introduction to ConfigObj`

Validation is done through a combination of the configspec and a `Validator` object. For this you need `validate.py` [##]. See downloading if you don't have a copy.

Validation can perform two different operations:

1) Check that a value meets a specification. For example, check that a value is an integer between one and six, or is a choice from a specific set of options.
2) It can convert the value into the type required. For example, if one of your values is a port number, validation will turn it into an integer for you.

So validation can act as a transparent layer between the datatypes of your application configuration (boolean, integers, floats, etc) and the text format of your config file.

```
configspec
----------
```

The `validate` method checks members against an entry in the configspec. Your configspec therefore resembles your config file, with a check for every member.

In order to perform validation you need a `Validator` object. This has several useful built-in check functions. You can also create your own custom functions and register them with your Validator object.

Each check is the name of one of these functions, including any parameters and keyword arguments. The configspecs look like function calls, and they map to function calls.

The basic datatypes that an un-extended Validator can test for are:

* boolean values (True and False)
* integers (including minimum and maximum values)
* floats (including min and max)
* strings (including min and max length)
* IP addresses (v4 only)

It can also handle lists of these types and restrict a value to being one from a set of options.

An example configspec is going to look something like::

```
port = integer(0, 100)
user = string(max=25)
mode = option('quiet', 'loud', 'silent')
```

You can specify default values, and also have the same configspec applied to several sections. This is called `repeated sections`.

For full details on writing configspecs, please refer to the `validate.py documentation`.

.. important::
Your configspec is read by ConfigObj in the same way as a config file.

That means you can do interpolation *within* your configspec.

In order to allow this, checks in the 'DEFAULT' section (of the root level of your configspec) are *not* used.

If you want to use a configspec *without* interpolation being done in it you can create your configspec manually and switch off interpolation:

```python
from configobj import ConfigObj

configspec = ConfigObj(spec_filename, interpolation=False, list_values=False, _inspec=True)
conf = ConfigObj(config_filename, configspec=configspec)
```

If you need to specify the encoding of your configspec, then you can pass in a ConfigObj instance as your configspec. When you read your configspec file, you *must* specify `"list_values=False"`. If you need to support hashes in configspec values then you must also pass in `"_inspec=True"`.

```python
from configobj import ConfigObj
configspec = ConfigObj(configspecfilename, encoding='UTF8', list_values=False, _inspec=True)
config = ConfigObj(filename, configspec=configspec)
```

Type Conversion
---------------

By default, validation does type conversion. This means that if you specify `"integer"` as the check, then calling validate_ will actually change the value to an integer (so long as the check succeeds).

It also means that when you call the write_ method, the value will be converted back into a string using the `str` function.

To switch this off, and leave values as strings after validation, you need to set the stringify_ attribute to `False`. If this is the case, attempting to set a value to a non-string will raise an error.
Default Values
-------------

You can set a default value in your check. If the value is missing from the config file then this value will be used instead. This means that your user only has to supply values that differ from the defaults.

If you *don’t* supply a default then for a value to be missing is an error, and this will show in the `return value`_ from validate.

Additionally you can set the default to be `None`. This means the value will be set to `None` (the object) *whichever check is used*. (It will be set to `''` rather than `None` if `stringify_` is `False`). You can use this to easily implement optional values in your config files. ::

    port = integer(0, 100, default=80)
    user = string(max=25, default=0)
    mode = option('quiet', 'loud', 'silent', default='loud')
    nick = string(default=None)

.. note::

    Because the default goes through type conversion, it also has to pass the check.

    Note that `default=None` is case sensitive.

List Values
~~~~~~~~~~~

It’s possible that you will want to specify a list as a default value. To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `default` value. This makes checks look something like::

    checkname(default=list('val1', 'val2', 'val3'))

This works with all keyword arguments, but is most useful for default values.

Repeated Sections
-----------------

Repeated sections are a way of specifying a configspec for a section that should be applied to all unspecified subsections in the same section.

The easiest way of explaining this is to give an example. Suppose you have a
config file that describes a dog. That dog has various attributes, but it can also have many fleas. You don't know in advance how many fleas there will be, or what they will be called, but you want each flea validated against the same configspec.

We can define a section called `fleas`. We want every flea in that section (every sub-section) to have the same configspec applied to it. We do this by defining a single section called `__many__`. ::

```
[dog]
name = string(default=Rover)
age = float(0, 99, default=0)

[[fleas]]

[[[__many__]]]
bloodsucker = boolean(default=True)
children = integer(default=10000)
size = option(small, tiny, micro, default=tiny)
```

Every flea on our dog will now be validated using the `__many__` configspec.

`__many__` sections can have sub-sections, including their own `__many__` sub-sections. Defaults work in the normal way in repeated sections.

Repeated Values
---------------

As well as using `__many__` to validate unspecified sections you can use it to validate values. For example, to specify that all values in a section should be integers::

```
[section]
__many__ = integer
```

If you want to use repeated values alongside repeated sections you can call one `__many__` and the other `___many___` (with three underscores).

Copy Mode
---------

Because you can specify default values in your configspec, you can use ConfigObj to write out default config files for your application.

However, normally values supplied from a default in a configspec are *not* written out by the `write` method.
To do this, you need to specify `copy=True` when you call validate. As well as not marking values as default, all the comments in the configspec file will be copied into your ConfigObj instance.

```python
from configobj import ConfigObj
from validate import Validator
vdt = Validator()
config = ConfigObj(configspec='default.ini')
config.filename = 'new_default.ini'
config.validate(vdt, copy=True)
config.write()
```

If you need to support hashes in the configspec values then you must create it with `*_inspec=True` . This has the side effect of switching off the parsing of inline comments, meaning that they won't be copied into the new config file. (ConfigObj syntax is slightly different from configspec syntax and the parser can't support both inline comments and hashes in configspec values.)

Validation and Interpolation
----------------------------

String interpolation and validation don't play well together. When validation changes type it sets the value. If the value uses interpolation, then the interpolation reference would normally be overwritten. Calling `write` would then use the absolute value and the interpolation reference would be lost.

As a compromise - if the value is unchanged by validation then it is not reset. This means strings that pass through validation unmodified will not be overwritten. If validation changes type - the value has to be overwritten, and any interpolation references are lost.

Extra Values
------------

After validation the `extra_values` member of every section that is listed in the configspec will be populated with the names of members that are in the config file but not in the configspec.

If you are reporting configuration errors to your user this information can be useful, for example some missing entries may be due to misspelt entries that appear as extra values.

See the `get_extra_values` function
New in ConfigObj 4.7.0.

SimpleVal
---------

You may not need a full validation process, but still want to check if all the expected values are present.

Provided as part of the ConfigObj module is the `SimpleVal` object. This has a dummy `test` method that always passes.

The only reason a test will fail is if the value is missing. The return value from `validate` will either be `True`, meaning all present, or a dictionary with `False` for all missing values/sections.

To use it, you still need to pass in a valid configspec when you create the ConfigObj, but just set all the values to `''`. Then create an instance of `SimpleVal` and pass it to the `validate` method.

As a trivial example if you had the following config file::

```
# config file for an application
port = 80
protocol = http
domain = voidspace
top_level_domain = org.uk
```

You would write the following configspec::

```
port = 
protocol = 
domain = 
top_level_domain = 
```

.. code-block:: python

```
config = Configobj(filename, configspec=configspec)
val = SimpleVal()
test = config.validate(val)
if test == True:
    print 'All values present.'
elif test == False:
    print 'No values present!
else:
```
for entry in test:
    if test[entry] == False:
        print """%s" missing." % entry

Empty values
=============

Many config files from other applications allow empty values. As of version
4.3.0, ConfigObj will read these as an empty string.

A new option/attribute has been added (``write_empty_values``) to allow
ConfigObj to write empty strings as empty values.

.. code-block:: python

    from configobj import ConfigObj
    cfg = ""
    key =
    key2 = # a comment
    ".splitlines()
    config = ConfigObj(cfg)
    print config
    ConfigObj({'key': '', 'key2': ''})

    config.write_empty_values = True
    for line in config.write():
        print line

    key =
    key2 = # a comment

unrepr mode
============

The ``unrepr`` option allows you to store and retrieve the basic Python
data-types using config files. It has to use a slightly different syntax to
normal ConfigObj files. Unsurprisingly it uses Python syntax.

This means that lists are different (they are surrounded by square brackets),
and strings *must* be quoted.

The types that ``unrepr`` can work with are :

| strings, lists tuples
| None, True, False
| dictionaries, integers, floats
| longs and complex numbers

You can't store classes, types or instances.

``unrepr`` uses ``repr(object)`` to write out values, so it currently *doesn't* check that you are writing valid objects. If you attempt to read an unsupported value, ConfigObj will raise a ``configobj.UnknownType`` exception.

Values that are triple quoted cased. The triple quotes are removed *before* converting. This means that you can use triple quotes to write dictionaries over several lines in your config files. They won't be written like this though.

If you are writing config files by hand, for use with ``unrepr``, you should be aware of the following differences from normal ConfigObj syntax :

- List : ``['A List', 'With', 'Strings']``
- Strings : ``"Must be quoted."``
- Backslash : ``"The backslash must be escaped \"``

These all follow normal Python syntax.

In unrepr mode *inline comments* are not saved. This is because lines are parsed using the `compiler package <http://docs.python.org/lib/compiler.html>`_ which discards comments.

String Interpolation
====================

.. note::

String interpolation can slow down (slightly) the fetching of values from your config object. If you aren't using interpolation and it is performance critical then create your instance with ``interpolation=False``.

ConfigObj allows string interpolation *similar* to the way ``ConfigParser`` or ``string.Template`` work. The value of the ``interpolation`` attribute determines which style of interpolation you want to use. Valid values are "ConfigParser" or "Template" (case-insensitive, so "configparser" and "template" will also work). For backwards compatibility reasons, the value "True" is also a valid value for the "interpolation" attribute, and will select "ConfigParser"-style interpolation. At some undetermined point in the future, that default *may* change to "Template"-style interpolation.

For "ConfigParser"-style interpolation, you specify a value to be substituted by including "%(name)s" in the value.
For ``Template``-style interpolation, you specify a value to be substituted by including ``${cl}name{cr}`` in the value. Alternately, if 'name' is a valid Python identifier (i.e., is composed of nothing but alphanumeric characters, plus the underscore character), then the braces are optional and the value can be written as ``$name``.

Note that ``ConfigParser``-style interpolation and ``Template``-style interpolation are mutually exclusive; you cannot have a configuration file that's a mix of one or the other. Pick one and stick to it. ``Template``-style interpolation is simpler to read and write by hand, and is recommended if you don't have a particular reason to use ``ConfigParser``-style.

Interpolation checks first the current section to see if ``name`` is the key to a value. ('name' is case sensitive).

If it doesn't find it, next it checks the 'DEFAULT' sub-section of the current section.

If it still doesn't find it, it moves on to check the parent section and the parent section's 'DEFAULT' subsection, and so on all the way up to the main section.

If the value specified isn't found in any of these locations, then a "MissingInterpolationOption" error is raised (a subclass of "ConfigObjError").

If it is found then the returned value is also checked for substitutions. This allows you to make up compound values (for example directory paths) that use more than one default value. It also means it's possible to create circular references. If there are any circular references which would cause an infinite interpolation loop, an "InterpolationLoopError" is raised.

Both of these errors are subclasses of "InterpolationError", which is a subclass of "ConfigObjError".

String interpolation and validation don't play well together. This is because validation overwrites values - and so may erase the interpolation references. See `Validation and Interpolation`_. (This can only happen if validation has to *change* the value).

New in ConfigObj 4.7.0: String interpolation is now done in members of list values.

String Interpolation and List Values

------------------------------------
Since version 4.7 string interpolation is done on string members of list values. If interpolation changes any members of the list then what you get back is a *copy* of the list rather than the original list.

This makes fetching list values slightly slower when interpolation is on, it also means that if you mutate the list changes won't be reflected in the original list:

```
.. code-block:: python

    >>> c = ConfigObj()
    >>> c['foo'] = 'boo'
    >>> c['bar'] = ['%(foo)s']
    >>> c['bar']
    ['boo']
    >>> c['bar'].append('fish')
    >>> c['bar']
    ['boo', 'fish']
```

Instead of mutating the list you must create a new list and reassign it.

Comments
========

Any line that starts with a `#`, possibly preceded by whitespace, is a comment.

If a config file starts with comments then these are preserved as the `initial_comment_`.

If a config file ends with comments then these are preserved as the `final_comment_`.

Every key or section marker may have lines of comments immediately above it. These are saved as the `comments` attribute of the section. Each member is a list of lines.

You can also have a comment inline with a value. These are saved as the `inline_comments` attribute of the section, with one entry per member of the section.

Subsections (section markers in the config file) can also have comments.

See `Section Attributes` for more on these attributes.

These comments are all written back out by the `write` method.
flatten_errors

.. code-block:: python

    flatten_errors(cfg, res)

Validation is a powerful way of checking that the values supplied by the user make sense.

The validate method returns a results dictionary that represents pass or fail for each value. This doesn't give you any information about *why* the check failed.

``flatten_errors`` is an example function that turns a results dictionary into a flat list, that only contains values that *failed*.

``cfg`` is the ConfigObj instance being checked, ``res`` is the results dictionary returned by ``validate``.

It returns a list of keys that failed. Each member of the list is a tuple:

   ([list of sections...], key, result)

If ``validate`` was called with ``preserve_errors=False`` (the default) then ``result`` will always be ``False``.

*list of sections* is a flattened list of sections that the key was found in.

If the section was missing then key will be ``None``.

If the value (or section) was missing then ``result`` will be ``False``.

If ``validate`` was called with ``preserve_errors=True`` and a value was present, but failed the check, then ``result`` will be the exception object returned. You can use this as a string that describes the failure.

For example:

   *The value "3" is of the wrong type*.

Example Usage

-----------

The output from ``flatten_errors`` is a list of tuples.
Here is an example of how you could present this information to the user.

```python
.. code-block:: python

    vtor = validate.Validator()
    # ini is your config file - cs is the configspec
    cfg = ConfigObj(ini, configspec=cs)
    res = cfg.validate(vtor, preserve_errors=True)
    for entry in flatten_errors(cfg, res):
        # each entry is a tuple
        section_list, key, error = entry
        if key is not None:
            section_list.append(key)
        else:
            section_list.append('[missing section]')
        section_string = ', '.join(section_list)
        if error == False:
            error = 'Missing value or section.'
        print section_string, ' = ', error

get_extra_values
================

.. code-block:: python

    get_extra_values(conf)

New in ConfigObj 4.7.0.

Find all the values and sections not in the configspec from a validated ConfigObj.

``get_extra_values`` returns a list of tuples where each tuple represents either an extra section, or an extra value.

The tuples contain two values, a tuple representing the section the value is in and the name of the extra values. For extra values in the top level section the first member will be an empty tuple. For values in the 'foo' section the first member will be ```('foo',)```. For members in the 'bar' subsection of the 'foo' section the first member will be ```('foo', 'bar')```.

Extra sections will only have one entry. Values and subsections inside an extra section aren't listed separately.

NOTE: If you call ```get_extra_values``` on a ConfigObj instance that hasn't
been validated it will return an empty list.

Example Usage
-------------

The output from `get_extra_values` is a list of tuples.

Here is an example of how you could present this information to the user.

```python

.. code-block:: python

    vtor = validate.Validator()
    # ini is your config file - cs is the configspec
    cfg = ConfigObj(ini, configspec=cs)
    cfg.validate(vtor, preserve_errors=True)

    for sections, name in get_extra_values(cfg):

        # this code gets the extra values themselves
        the_section = cfg
        for section in sections:
            the_section = cfg[section]

        # the_value may be a section or a value
        the_value = the_section[name]

        section_or_value = 'value
        if isinstance(the_value, dict):
            # Sections are subclasses of dict
            section_or_value = 'section'

        section_string = ', '.join(sections) or "top level"
        print 'Extra entry in section: %s. Entry %r is a %s' % (section_string, name, section_or_value)

CREDITS
=======

ConfigObj 4 is written by (and copyright) `Michael Foord` and
`Nicola Larosa`.

Particularly thanks to Nicola Larosa for help on the config file spec, the
validation system and the doctests.

*validate.py* was originally written by Michael Foord and Mark Andrews.
Thanks to many others for input, patches and bugfixes.

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=======

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TODO
=====

Better support for configuration from multiple files, including tracking *where* the original file came from and writing changes to the correct file.

Make `\texttt{\textasciitilde newline}` a keyword argument (as well as an attribute) ?

`\texttt{\textasciitilde UTF16}` encoded files, when returned as a list of lines, will have the BOM at the start of every line. Should this be removed from all but the first line ?

Option to set warning type for unicode decode ? (Defaults to strict).

A method to optionally remove uniform indentation from multiline values.
(Do as an example of using `\texttt{\textasciitilde walk}` - along with string-escape)

Should the results dictionary from validate be an ordered dictionary if `\texttt{\textasciitilde odict <http://www.voidspace.org.uk/python/odict.html>\_}` is available ?

Implement some of the sequence methods (which include slicing) from the newer `\texttt{\textasciitilde odict}` ?

Preserve line numbers of values (and possibly the original text of each value).

ISSUES
======

.. note::

Please file any bug reports to `\texttt{Michael Foord\_}` or the **ConfigObj** `\texttt{\textasciitilde Mailing List\_}`.

There is currently no way to specify the encoding of a configspec file.

As a consequence of the changes to configspec handling in version 4.6.0, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in configspecs. This will only affect you if you are using `\texttt{\textasciitilde copy=True}` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).
If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in ``_inspec=True`` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

When using ``copy`` mode for validation, it won't copy ``DEFAULT`` sections. This is so that you *can* use interpolation in configspec files. This is probably true even if interpolation is off in the configspec.

You can't have a keyword with the same name as a section (in the same section). They are both dictionary keys - so they would overlap.

ConfigObj doesn't quote and unquote values if ``list_values=False``. This means that leading or trailing whitespace in values will be lost when writing. (Unless you manually quote).

Interpolation checks first the current section, then the 'DEFAULT' subsection of the current section, before moving on to the current section's parent and so on up the tree.

Does it matter that we don't support the ':' divider, which is supported by `ConfigParser`?

String interpolation and validation don't play well together. When validation changes type it sets the value. This will correctly fetch the value using interpolation - but then overwrite the interpolation reference. If the value is unchanged by validation (it's a string) - but other types will be.

**CHANGEOLOG**

`````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````
* BUGFIX: values that use interpolation to reference members that don't exist can now be repr'd.
* BUGFIX: Fix to avoid writing '\r\r\n' on Windows when given a file opened in text write mode ('w').

See `String Interpolation and List Values`_ for information about the problem with lists and interpolation.

2010/02/06 - Version 4.7.1
--------------------------

* Fix bug in options deprecation warning added in 4.7.0

2010/01/09 - Version 4.7.0
----------------------------

* Minimum supported version of Python is now 2.3
* ~25% performance improvement thanks to Christian Heimes
* String interpolation now works in list value members
* After validation any additional entries not in the configspec are listed in the ``extra_values`` section member
* Addition of the ``get_extra_values`` function for finding all extra values in a validated ConfigObj instance
* Deprecated the use of the ``options`` dictionary in the ConfigObj constructor and added explicit keyword arguments instead. Use \*\*options if you want to initialise a ConfigObj instance from a dictionary
* Constructing a ConfigObj from an existing ConfigObj instance now preserves the order of values and sections from the original instance in the new one
* BUGFIX: Checks that failed validation would not populate ``default_values`` and ``restore_default_value()`` wouldn't work for those entries
* BUGFIX: clear() now clears 'defaults'
* BUGFIX: empty values in list values were accidentally valid syntax. They now raise a ``ParseError``. e.g. "value = 1, , 2"
* BUGFIX: Change to the result of a call to `validate` when `preserve_errors` is True. Previously sections where *all* values failed validation would return False for the section rather than preserving the errors. False will now only be returned for a section if it is missing
* Distribution includes version 1.0.1 of validate.py
* Removed __revision__ and __docformat__

2009/04/13 - Version 4.6.0
--------------------------

* Pickling of ConfigObj instances now supported (thanks to Christian Heimes)
* Hashes in configscons are now allowed (see note below)
* Replaced use of hasattr (which can swallow exceptions) with getattr
* __many__ in configspecs can refer to scalars (ordinary values) as well as sections  
* You can use ___many___ (three underscores!) where you want to use __many__ as well  
* You can now have normal sections inside configspec sections that use __many__  
* You can now create an empty ConfigObj with a configspec, programmatically set values and then validate  
* A section that was supplied as a value (or vice-versa) in the actual config file would cause an exception during validation (the config file is still broken of course, but it is now handled gracefully)  
* Added ``as_list`` method  
* Removed the deprecated ``istrue``, ``encode`` and ``decode`` methods  
* Running test_configobj.py now also runs the doctests in the configobj module  

As a consequence of the changes to configspec handling, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in configspecs. This will only affect you if you are using ```copy=True``` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in ```__inspec=True``` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

2008/06/27 - Version 4.5.3
-------------------------------

BUGFIX: fixed a problem with ```copy=True``` when validating with configspecs that use ```__many__``` sections.

2008/02/05 - Version 4.5.2
-------------------------------

Distribution updated to include version 0.3.2 of validate_. This means that ```None``` as a default value in configspecs works.

2008/02/05 - Version 4.5.1
-------------------------------

Distribution updated to include version 0.3.1 of validate_. This means that Unicode configspecs now work.

2008/02/05 - Version 4.5.0
-------------------------------
ConfigObj will now guarantee that files will be written terminated with a newline.

ConfigObj will no longer attempt to import the ``validate`` module, until/unless you call ``ConfigObj.validate`` with ``preserve_errors=True``. This makes it faster to import.

New methods ``restore_default`` and ``restore_defaults``. ``restore_default`` resets an entry to its default value (and returns that value). ``restore_defaults`` resets all entries to their default value. It doesn't modify entries without a default value. You must have validated a ConfigObj (which populates the ``default_values`` dictionary) before calling these methods.

BUGFIX: Proper quoting of keys, values and list values that contain hashes (when writing). When ``list_values=False``, values containing hashes are triple quoted.

Added the ``reload`` method. This reloads a ConfigObj from file. If the filename attribute is not set then a ``ReloadError`` (a new exception inheriting from ``IOError``) is raised.

BUGFIX: Files are read in with 'rb' mode, so that native/non-native line endings work!

Minor efficiency improvement in ``unrepr`` mode.

Added missing docstrings for some overridden dictionary methods.

Added the ``reset`` method. This restores a ConfigObj to a freshly created state.

Removed old CHANGELOG file.

2007/02/04 - Version 4.4.0
--------------------------

Official release of 4.4.0

2006/12/17 - Version 4.3.3-alpha4
---------------------------------

By Nicola Larosa

Allowed arbitrary indentation in the ``indent_type`` parameter, removed the ``NUM_INDENT_SPACES`` and ``MAX_INTERPOL_DEPTH`` (a leftover) constants, added indentation tests (including another docutils workaround, sigh), updated the documentation.
By Michael Foord

Made the import of ```compiler``` conditional so that ```ConfigObj``` can be used

2006/12/17 - Version 4.3.3-alpha3
---------------------------------

By Nicola Larosa

Added a missing ```self``` in the _handle_comment method and a related test,
per Sourceforge bug #1523975.

2006/12/09 - Version 4.3.3-alpha2
---------------------------------

By Nicola Larosa

Changed interpolation search strategy, based on this patch by Robin Munn:
http://sourceforge.net/mailarchive/message.php?msg_id=17125993

2006/12/09 - Version 4.3.3-alpha1
---------------------------------

By Nicola Larosa

Added Template-style interpolation, with tests, based on this patch by
(awful archives, bad Sourceforge, bad).

2006/06/04 - Version 4.3.2
--------------------------

Changed error handling, if parsing finds a single error then that error will
be re-raised. That error will still have an ```errors``` and a ```config```
attribute.

Fixed bug where ```\n``` terminated files could be truncated.

Bugfix in ```unrepr``` mode, it couldn't handle ```#``` in values. (Thanks to
Philippe Normand for the report.)

As a consequence of this fix, ConfigObj doesn't now keep inline comments in
``unrepr`` mode. This is because the parser in the `compiler package`_
doesn't keep comments.

Error messages are now more useful. They tell you the number of parsing errors
and the line number of the first error. (In the case of multiple errors.)

Line numbers in exceptions now start at 1, not 0.

Errors in ``unrepr`` mode are now handled the same way as in the normal mode.
The errors stored will be an ``UnreprError``.

2006/04/29 - Version 4.3.1
--------------------------
Added ``validate.py`` back into ``configobj.zip``. (Thanks to Stewart
Midwinter)

Updated to `validate.py`_ 0.2.2.

Preserve tuples when calling the ``dict`` method. (Thanks to Gustavo Niemeyer.)

Changed ``__repr__`` to return a string that contains ``ConfigObj({ ... })``.

Change so that an options dictionary isn't modified by passing it to ConfigObj.
(Thanks to Artarious.)

Added ability to handle negative integers in ``unrepr``. (Thanks to Kevin
Dangoor.)

2006/03/24 - Version 4.3.0
--------------------------
Moved the tests and the CHANGELOG (etc) into a separate file. This has reduced
the size of ``configobj.py`` by about 40%.

Added the ``unrepr`` mode to reading and writing config files. Thanks to Kevin
Dangoor for this suggestion.

Empty values are now valid syntax. They are read as an empty string `````.
(``key = ''`, or ```key = # comment```)

``validate`` now honours the order of the configspec.

Added the ``copy`` mode to validate. Thanks to Louis Cordier for this suggestion.
Fixed bug where files written on windows could be given `\r\n' line terminators.

Fixed bug where last occurring comment line could be interpreted as the final comment if the last line isn't terminated.

Fixed bug where nested list values would be flattened when `write` is called. Now sub-lists have a string representation written instead.

Deprecated `encode` and `decode` methods instead.

You can now pass in a ConfigObj instance as a configspec (remember to read the configspec file using `list_values=False`).

Sorted footnotes in the docs.

2006/02/16 - Version 4.2.0
--------------------------

Removed `BOM_UTF8` from `__all__`.

The `BOM` attribute has become a boolean. (Defaults to `False`.) It is *only* `True` for the `UTF16/UTF8` encodings.

File like objects no longer need a `seek` attribute.

Full unicode support added. New options/attributes `encoding`, `default_encoding`.

ConfigObj no longer keeps a reference to file like objects. Instead the `write` method takes a file like object as an optional argument. (Which will be used in preference of the `filename` attribute if that exists as well.)

utf16 files decoded to unicode.

If `BOM` is `True`, but no encoding specified, then the utf8 BOM is written out at the start of the file. (It will normally only be `True` if the utf8 BOM was found when the file was read.)

Thanks to Aaron Bentley for help and testing on the unicode issues.

File paths are *not* converted to absolute paths, relative paths will remain relative as the `filename` attribute.

Fixed bug where `final_comment` wasn't returned if `write` is returning a list of lines.
Deprecated `istru``, replaced it with `as_bool``.

Added `as_int`` and `as_float``.

2005/12/14 - Version 4.1.0
--------------------------

Added `merge``, a recursive update.

Added `preserve_errors`` to `validate`` and the `flatten_errors`` example function.

Thanks to Matthew Brett for suggestions and helping me iron out bugs.

Fixed bug where a config file is *all* comment, the comment will now be `initial_comment`` rather than `final_comment``.

Validation no longer done on the 'DEFAULT' section (only in the root level).
This allows interpolation in configspecs.

Also use the new list syntax in validate_ 0.2.1. (For configspecs).

2005/12/02 - Version 4.0.2
--------------------------

Fixed bug in `create_empty``. Thanks to Paul Jimenez for the report.

2005/11/05 - Version 4.0.1
--------------------------

Fixed bug in `Section.walk`` when transforming names as well as values.

Added the `istru`` method. (Fetches the boolean equivalent of a string value).

Fixed `list_values=False`` - they are now only quoted/unquoted if they are multiline values.

List values are written as `item, item`` rather than `item.item``.

2005/10/17 - Version 4.0.0
--------------------------
**ConfigObj 4.0.0 Final**

Fixed bug in ``setdefault``. When creating a new section with setdefault the reference returned would be to the dictionary passed in *not* to the new section. Bug fixed and behaviour documented.

Obscure typo/bug fixed in ``write``. Wouldn't have affected anyone though.

2005/09/09 - Version 4.0.0 beta 5
-------------------------------

Removed ``PositionError``.

Allowed quotes around keys as documented.

Fixed bug with commas in comments. (matched as a list value)

2005/09/07 - Version 4.0.0 beta 4
-------------------------------

Fixed bug in ``__delitem__``. Deleting an item no longer deletes the ``inline_comments`` attribute.

Fixed bug in initialising ConfigObj from a ConfigObj.

Changed the mailing list address.

2005/08/28 - Version 4.0.0 beta 3
-------------------------------

Interpolation is switched off before writing out files.

Fixed bug in handling ``StringIO`` instances. (Thanks to report from Gustavo Niemeyer.)

Moved the doctests from the ``__init__`` method to a separate function. (For the sake of IDE calltips).

2005/08/25 - Version 4.0.0 beta 2
-------------------------------

Amendments to *validate.py*.

First public release.
Reads nested subsections to any depth.

Multiline values.

Simplified options and methods.

New list syntax.

Faster, smaller, and better parser.

Validation greatly improved. Includes:

* type conversion
* default values
* repeated sections

Improved error handling.

Plus lots of other improvements.

2004/05/24 - Version 3.0.0

Several incompatible changes: another major overhaul and change. (Lots of improvements though).

Added support for standard config files with sections. This has an entirely new interface: each section is a dictionary of values.

Changed the update method to be called writein: update clashes with a dict method.

Made various attributes keyword arguments, added several.

Confspecs and orderlists have changed a great deal.

Removed support for adding dictionaries: use update instead.

Now subclasses a new class called caselessDict. This should add various dictionary methods that could have caused errors before.

It also preserves the original casing of keywords when writing them back out.
Comments are also saved using a `caselessDict`.

Using a non-string key will now raise a `TypeError` rather than converting the key.

Added an exceptions keyword for *much* better handling of errors.

Made `createempty=False` the default.

Now checks indict *and* any keyword args. Keyword args take precedence over indict.

```, ',', '=' , ',' and `\t` are now all valid dividers where the keyword is unquoted.

ConfigObj now does no type checking against configspec when you set items.

delete and add methods removed (they were unnecessary).

Docs rewritten to include all this gumph and more; actually ConfigObj is *really* easy to use.

Support for stdout was removed.

A few new methods added.

Charmap is now incorporated into ConfigObj.

2004/03/14 - Version 2.0.0 beta
-----------------------------

Re-written it to subclass dict. My first forays into inheritance and operator overloading.

The config object now behaves like a dictionary.

I've completely broken the interface, but I don't think anyone was really using it anyway.

This new version is much more 'classy'.

It will also read straight from/to a filename and completely parse a config file without you *having* to supply a config spec.

Uses listparse, so can handle nested list items as values.
No longer has getval and setval methods: use normal dictionary methods, or add and delete.

2004/01/29 - Version 1.0.5
--------------------------

Version 1.0.5 has a couple of bugfixes as well as a couple of useful additions over previous versions.

Since 1.0.0 the buildconfig function has been moved into this distribution, and the methods reset, verify, getval and setval have been added.

A couple of bugs have been fixed.

Origins
-------

ConfigObj originated in a set of functions for reading config files in the `atlantibots <http://www.voidspace.org.uk/atlantibots/>`_ project. The original functions were written by Rob McNeur.

Footnotes
==========

.. [#] And if you discover any bugs, let us know. We'll fix them quickly.

.. [#] If you specify a filename that doesn't exist, ConfigObj will assume you are creating a new one. See the *create_empty* and *file_error* options.

.. [#] They can be byte strings (*ordinary* strings) or Unicode.

.. [#] Except we don't support the RFC822 style line continuations, nor ' ' as a divider.

.. [#] This is a change in ConfigObj 4.2.0. Note that ConfigObj doesn't call the seek method of any file like object you pass in. You may want to call ``file_object.seek(0)`` yourself, first.

.. [#] A side effect of this is that it enables you to copy a ConfigObj :

.. code-block:: python
# only copies members
# not attributes/comments
config2 = ConfigObj(config1)

Since ConfigObj 4.7.0 the order of members and sections will be preserved when copying a ConfigObj instance.

.. [#] Other than lists of strings.

.. [#] The exception is if it detects a ``UTF16`` encoded file which it must decode before parsing.

.. [#] The method signature shows that this method takes two arguments. The second is the section to be written. This is because the ``write`` method is called recursively.

.. [#] The dict method doesn't actually use the deepcopy mechanism. This means if you add nested lists (etc) to your ConfigObj, then the dictionary returned by dict may contain some references. For all *normal* ConfigObjs it will return a deepcopy.

.. [#] Passing ``(section, key)`` rather than ``(value, key)`` allows you to change the value by setting ``section[key] = newval``. It also gives you access to the *rename* method of the section.

.. [#] Minimum required version of *validate.py* 0.2.0.

.. _listquote: http://www.voidspace.org.uk/python/modules.shtml#listquote
.. _Nicola Larosa: http://www.teknico.net

Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/docs/configobj.txt

No license file was found, but licenses were detected in source scan.

---------------------------------
Data Persistence with ConfigObj
---------------------------------

The ConfigPersist Module

:Author: Michael Foord
:Contact: fuzzyman@voidspace.org.uk
:Version: 0.1.0
:Date: 2005/09/07
:License: `BSD License`_
Introduction

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

This module contains various functions for data persistence with ConfigObj_.

ConfigObj_ is a pure python module for the easy reading and writing of application configuration data. It uses an *ini* file like syntax - similar to the ConfigParser_ module - but with much greater power.

ConfigObj in conjunction with validate_ can store nested sections (like dictionaries) - with values as integers, floats, strings, booleans, and lists of these values. This makes it ideal for certain types of human readable (and writeable) data persistence.

For a discussion of this idea (out of which this module was born) - see `ConfigObj for Data Persistence`_.

You can find ConfigObj, and other useful modules, over at the `Voidspace Modules Page`_.

.. _Voidspace Modules Page: /python/modules.shtml
.. _validate: /python/validate.html
.. _ConfigParser: http://docs.python.org/lib/module-configparser.html
.. _ConfigObj for Data Persistence: /python/articles/configobj_for_data_persistence.shtml
.. _ConfigObj: /python/configobj.html

Downloading

==========

You can download the ConfigPersist module from : ConfigPersist.py_

.. _ConfigPersist.py: /cgi-bin/voidspace/downman.py?file=ConfigPersist.py

Limitations

==========

.. hint::

    This is an extract from the `ConfigObj for Data Persistence`_ article.

ConfigObj can't just be used to represent arbitrary data structures - even if
all the members are allowed types.

* Although dictionaries can be nested, they can't be inside lists.
* Lists also can't be nested inside each other [#].
* Values other than strings need a schema (a ``configsce``) to convert them back into the right type.
* Dictionary keys must be strings.
* It is actually impossible to store a string containing single triple quotes (''''') *and* double triple quotes (``'''`).
* List members cannot contain carriage returns. (Single line values only). [#]

ConfigObj *isn’t* a data persistence module - this list of restrictions tells you that much. However if you examine the typical data structures used in your programs you may find that these restrictions aren't a problem for many of them.

So Why Do It ?
------------

Why would we want to do this ? Well, the usual method for preserving data structures is the Python pickle module. This can store and retrieve a much wider range of objects - with *none* of the restrictions above.

However :

* Pickles aren't human readable or writeable. This makes ConfigObj ideal for debugging or where you want to manually modify the data.
* Pickles are unsafe - a maliciously crafted pickle can cause arbitrary code execution.
* ConfigObj is slightly easier to use - ```data = ConfigObj(filename)` and ```data.write()```

Of these three reasons the first is overwhelmingly the most compelling.

.. _pickle: http://docs.python.org/lib/module-pickle.html

The Functions
=============

The first three functions provide the highest level interface to this module. You can use these without needing to the other functions.

save_configsce_ could be useful to anyone using the ConfigObj module - not just for data persistence.

store
-----

Open Source Used In NFVIS Branch Virtualization 4.8.1  6880
store(config)

Passed a ConfigObj instance add type info and save.

Returns the result of calling `config.write()`.

.. caution::

   This function modifies the ConfigObj instance by adding the `__types__` data.

   You can call typeinfo_to_configspec_ to reverse this.

restore
-------

restore(stored)

Restore a ConfigObj saved using the `store` function.

Takes a filename or list of lines, returns the ConfigObj instance.

Uses the built-in `Validator` instance of this module (vtor).

Raises an `ImportError` if the validate module isn't available.

save_configs
--------------

save_configs(config)

Creates a configs for a ConfigObj (which must be comprised of the basic datatypes) and returns it as a list of lines.

Lower Level Functions
----------------------

These functions provide a slightly lower level interface to adding type info to a ConfigObj. They are still very easy to use though.
add_configspec
~~~~~~~~~~~~~~

::

add_configspec(config)

A function that adds a configspec to a ConfigObj.

Will only work for ConfigObj instances using basic datatypes:

* floats
* strings
* ints
* booleans
* Lists of the above

write_configspec
~~~~~~~~~~~~~~

::

write_configspec(config)

Return the configspec (of a ConfigObj) as a list of lines.

You must first call `add_configspec`. You can use save_configspec_ which does both in one step.

add_typeinfo
~~~~~~~~~~~~

::

add_typeinfo(config)

Turns the configspec attribute of each section into a member of the section. (Called `__types__`).

You must have already called `add_configspec` on the ConfigObj.

typeinfo_to_configspec
~~~~~~~~~~~~~~~~~~~~~~

::

typeinfo_to_configspec(config)
Turns the `__types__` member of each section into a configspec.

(The opposite of `add_typeinfo`).

vtor

This object isn't actually a function - it's the `Validator` instance used by this module.

If the validate module isn't available - this object will be `None`.

CHANGELOG
============

See the source code for CHANGELOG (and TODO/ISSUES).

Footnotes
==========

.. [#] Online at http://www.voidspace.org.uk/python/license.shtml
.. [#] We could remove this restriction by using the listquote module to parse ConfigObj values. Unfortunately a bug in ConfigObj means that this is currently not possible.
.. [#] List members can also not contain both types of quote. We could remove these last two restrictions using the `quote_unescape` function from listquote - it's a bit ungainly though. Note however that the `walk` method of ConfigObj is ideal for transforming values in this way. It will recursively walk the values and apply a function to them all.

.. _listquote: /python/listquote.html

.. raw:: html

   <center>
     <a href="http://sourceforge.net/donate/index.php?group_id=123265">       <img src="http://images.sourceforge.net/images/project-support.jpg" width="88" height="32" border="0" alt="Support This Project" />
     </a>
     </a>
     <br />
     <a href="http://www.python.org">       <img src="images/powered_by_python.jpg" width="602" height="186" border="0" />
     </a>
   </center>
Found in path(s):
* /opt/cola/permits/1156195761_1619142724.11/0/fbrehm-configobj-4-7-2-0-g935a787-tar-gz/fbrehm-configobj-0cfb11a/extras/configpersist.txt

1.937 mokutil 15-1.el7

1.937.1 Available under license:

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authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

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

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
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     */

    package io.swagger.annotations;

    import java.lang.annotation.ElementType;
    import java.lang.annotation.Retention;
    import java.lang.annotation.Target;

    /**
     * License metadata available within the info section of a Swagger definition, see
     * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
     * @since 1.5.0
     */

    @Target(ElementType.ANNOTATION_TYPE)
    @Retention(RetentionPolicy.RUNTIME)
    public @interface License {

    /**
     */

    }
* The name of the license.
* @return the name of the license
*/
String name();

/**
 * An optional URL for the license.
 * @return an optional URL for the license.
 */
String url() default "";
}

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XSLT-driven View that allows for response context to be rendered as the result of an XSLT transformation.

<p>The XSLT Source object is supplied as a parameter in the model and then detected during response rendering. Users can either specify a specific entry in the model via the sourceKey property or have Spring locate the Source object. This class also provides basic conversion of objects into Source implementations. See here for more details.

All model parameters are passed to the XSLT Transformer as parameters. In addition the user can configure output properties to be passed to the Transformer.

@since 2.0

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  jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
  jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
  jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
  jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java
jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/handler/AbstractUrlHandlerMapping.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/resource/VersionResourceResolver.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/resource/AbstractFlashMapManager.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodProcessor.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerInterceptor.java
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* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceAdapter.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/tags/ArgumentAware.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java

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* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1
A contract for inspecting and potentially modifying request data values such as URL query parameters or form field values before they are rendered by a view or before a redirect.

Implementations may use this contract for example as part of a solution to provide data integrity, confidentiality, protection against cross-site request forgery (CSRF), and others or for other tasks such as automatically adding a hidden field to all forms and URLs.

View technologies that support this contract can obtain an instance to delegate to via `@link RequestContext#getDataValueProcessor()`.

@since 3.1

Found in path(s):
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1.jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java

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* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /opt/cola/permits/1137623979_1614109129.55/0/spring-webmvc-5-1-12-release-sources-1-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java

1.948 netty 4.1.49.Final

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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/MalformedJsonException.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/ConstructorConstructor.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/JsonAdapter.java

1.956 lombok 1.18.8

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its [{@link ChannelPipeline}].
*
* <h3>Sub-types</h3>
* <p>
* {[@link ChannelHandler]} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
* <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {[@link ChannelHandler]} is provided with a {[@link ChannelHandlerContext]} object. A {[@link ChannelHandler]} is supposed to interact with the
* {[@link ChannelPipeline]} it belongs to via a context object. Using the
* context object, the {[@link ChannelHandler]} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {[@link AttributeKey]}s) which is specific to the handler.
* </p>
* <h3>State management</h3>
* A `@link ChannelHandler` often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends `@link SimpleChannelInboundHandler`<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(`@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    ...  
}
```

* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:

```java
// Create a new handler instance per channel.
// See `@link ChannelInitializer#initChannel(Channel)`.
public class DataServerInitializer extends `@link ChannelInitializer`<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

* Using `@link AttributeKey`s

* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
  * [@link ChannelHandlerContext],
  * <pre>
  * public interface Message {
  *     // your methods here
  * }
  *</pre>
  * {[@code @Sharable]}
  * public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; { [[@code @Override]
  *     private final [@link AttributeKey]@<[@link Boolean]>&lt;@link Boolean&gt; auth =
  *     {[@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")]};
  *     {
  *     }
  *     {
  *     }
  *</pre>
  * Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
  * same handler instance to different pipelines:
  * <pre>
  * public class DataServerInitializer extends [@link ChannelInitializer]&lt;@link Channel&gt; {
  *     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
  *     {
  *     }
  *     {
  *     }
  *</pre>
  * <p>
  * The [@code @Sharable] annotation</p>
  * <p>
  * In the example above which used an [@link AttributeKey],
  * you might have noticed the [@code @Sharable] annotation.
If a `@link ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* `/opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/SimpleUserEventChannelHandler.java`
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/WriteBufferWaterMark.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/ChannelPoolHandler.java
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jar/io/netty/channel/ChannelMetadata.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/internal/ChannelUtils.java
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1.963 slf4j 1.7.29

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1.964 string_decoder 0.10.31
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1.965 retrofit 2.5.0

1.966 llvm 6.0.1
1.966.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s 
; Test that early if conversion produces LOCR with operands of the right 
; register classes.
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246

CF246: ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed to be made aware of the
generalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vpadd 32(%rsi), %zmm1, %zmm1
; CHECK-NEXT:    vmovdqa64 %zmm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
}

Open Source Used In NFVIS Branch Virtualization 4.8.1 7093
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: avg_v64i8_256:  
  ; CHECK:      # %bb.0:  
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm0  
  ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1  
  ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0  
  ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1  
  ; CHECK-NEXT: vmovdqu %ymm1, (%rax)  
  ; CHECK-NEXT: vmovdqu %ymm0, (%rax)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %1 = load <64 x i8>, <64 x i8>* %a  
  %2 = load <64 x i8>, <64 x i8>* %b  
  %3 = zext <64 x i8> %1 to <64 x i32>  
  %4 = zext <64 x i8> %2 to <64 x i32>  
  %5 = add nsw %3, %4  
  %6 = lshl %5, %4  
  %7 = trunc <64 x i32> %6 to <64 x i8>  
  store <64 x i8> %7, <64 x i8>* undef, align 4  
  ret void  
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: avg_v64i8_512:  
  ; CHECK:      # %bb.0:  
  ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0  
  ; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0  
  ; CHECK-NEXT: vmovdqu64 %zmm1, (%rax)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %1 = load <64 x i8>, <64 x i8>* %a  
  %2 = load <64 x i8>, <64 x i8>* %b  
  %3 = load <16 x i32>, <16 x i32>* %a  
  %4 = load <16 x i32>, <16 x i32>* %b  
  %5 = add <16 x i32> %3, %4  
  store <16 x i32> %5, <16 x i32>* %c  
  ret void  
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256"  {
  ; CHECK-LABEL: psubus_64i8_max_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vpsubusb (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %x = load <64 x i8>, <64 x i8>* %xptr
  %y = load <64 x i8>, <64 x i8>* %yptr
  %cmp = icmp ult <64 x i8> %x, %y
  %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
  %res = sub <64 x i8> %max, %y
  store <64 x i8> %res, <64 x i8>* %zptr
  ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512"  {
  ; CHECK-LABEL: psubus_64i8_max_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:  vpsubusb (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %x = load <64 x i8>, <64 x i8>* %xptr

%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:     # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB8_1
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd [%.#+] xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd [%.#+] xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body
vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
width"="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:        # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  LBB9_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpadd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB9_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm1, %ymm1
; CHECK-NEXT:  vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %xmm0
; CHECK-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined
  %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
  %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undefined %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> undefined %bin.rdx20 = add <32 x i32> %bin.rdx20, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sad_16i8_256:  
  ; CHECK:  # %bb.0: # %entry  
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0  
  ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00  
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1  
  ; CHECK-NEXT: .p2align 4, 0x90  
  ; CHECK-NEXT: .LBB10_1: # %vector.body  
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1  
  ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2  
  ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2  
  ; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1  
}
entry:
    br label %vector.body

vector.body:

    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %2 = load <16 x i8>, <16 x i8>* %1, align 4
    %3 = load <16 x i8>, <16 x i8>* %2, align 4
    %4 = load <16 x i8>, <16 x i8>* %3, align 4
    %5 = load <16 x i8>, <16 x i8>* %4, align 4
    %6 = load <16 x i8>, <16 x i8>* %5, align 4

    %7 = icmp sgt <16 x i32> %6, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1, %i32 -1
    %8 = add <16 x i32> %9, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

middle.block:

    %.lcssa = phi <16 x i32> [ %10, %vector.body ]
    %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef
    %bin.rdx = add <16 x i32> %rdx.shuf
    %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef
    %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef, <16 x i32> undef

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i32 undef, i32 undef>

%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sad_16i8_512:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:    .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB11_1: # %vector.body
  ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT:    vpadd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    addq $4, %rax
  ; CHECK-NEXT:    jne .LBB11_1
  ; CHECK-NEXT:  # %bb.2: # %middle.block
  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd \[.*#++]\] xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd \[.*#++]\] xmm1 = xmm0[1,1,2,3]
  ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vmovd %xmm0, %eax
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  entry:
  br label %vector.body

vector.body:
  ; %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  ; %vec.phi = phi <16 x i8> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  ; %0 = getelementptr inbounds [1024 x i8], [*a, i64 0, i64 %index
  ; %1 = bitcast i8* %0 to <16 x i8>*
  ; %wide.load = load <16 x i8>, <16 x i8>" %1, align 4
  ; %2 = zext <16 x i8> %wide.load to <16 x i32>
  ; %3 = getelementptr inbounds [1024 x i8], [*b, i64 0, i64 %index
  ; %4 = bitcast i8* %3 to <16 x i8>*
  ; %wide.load1 = load <16 x i8>, <16 x i8>" %4, align 4

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define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:   kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:   vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:   vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:   vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:   vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT:   vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:   vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
}
ret void 
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sbto16f32_512:
 ; CHECK:     # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: vpmovm2d %k0, %zmm0
 ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
 ; CHECK-NEXT: vmovaps %zmm0, (%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zero initializer
 %l = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %l, <16 x float>* %res
 ret void 
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbto16f64_256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vpmovm2d %k1, %ymm0
 ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
 ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
 ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
 ; CHECK-NEXT: vpmovm2d %k0, %ymm2
 ; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
 ; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
 ; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
 ; CHECK-NEXT: vpmovaps %ymm2, 32(%rdi)
 ; CHECK-NEXT: vpmovaps %ymm3, (%rdi)
 ; CHECK-NEXT: vpmovaps %ymm0, 96(%rdi)
 ; CHECK-NEXT: vpmovaps %ymm1, 64(%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zero initializer
 %l = sitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %l, <16 x double>* %res
 ret void 
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sbto16f64_512:
 ; CHECK:     # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: vpmovm2d %k0, %zmm0
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k0, %ymm0
; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:  vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %ymm0
; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:  vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1
  ; CHECK-NEXT: vpmovm2d %k1, %ymm0
  ; CHECK-NEXT: vpsrlq $31, %ymm0, %ymm0
  ; CHECK-NEXT: vcvtq2pd %xmm0, %ymm1
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
  ; CHECK-NEXT: vpmovm2d %k0, %ymm2
  ; CHECK-NEXT: vpsrlq $31, %ymm2, %ymm3
  ; CHECK-NEXT: vcvtq2pd %xmm2, %ymm3
  ; CHECK-NEXT: vcvtq2pd %xmm2, %ymm2
  ; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
  ; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
  ; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
%
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f64_512:
  ; CHECK: # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0
  ; CHECK-NEXT: vpsrlq $31, %zmm0, %zmm0
  ; CHECK-NEXT: vcvtq2pd %ymm0, %zmm1
  ; CHECK-NEXT: vcvtq2pd %ymm0, %zmm0
  ; CHECK-NEXT: vcvtq2pd %ymm0, %zmm0
  ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
%
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32toub_256:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: vpmovd2m %ymm0, %ymm0 [%k1] [z]
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vcvtpps2dq (%rdi), %zmm1
    ; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT: vpmovd2m %zmm1, %k1
    ; CHECK-NEXT: vmovdq16 %ymm0, %ymm0 [%k1] [z]
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k0
    ; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
    ; CHECK-NEXT: vpmovd2m %ymm1, %k1
    ; CHECK-NEXT: kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT: vmovdq16 %ymm0, %ymm0 [%k1] [z]
    ; CHECK-NEXT: retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 [%k1] {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mul256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
        ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13 ],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
        ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
    ; CHECK-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
    ; CHECK-NEXT:    vmovdqa {{.*#+}} ymm5 =
    ; CHECK-NEXT:    vpand %ymm5, %ymm4, %ymm4
    ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm2 =
        ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
    ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm0 =
        ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
    ; CHECK-NEXT:    vpmullw %ymm2, %ymm0, %ymm0
    ; CHECK-NEXT:    vpand %ymm5, %ymm0, %ymm0
    ; CHECK-NEXT:    vpackuswb %ymm4, %ymm0, %ymm0
    ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm2 =
        ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13 ],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
   ; CHECK-LABEL: mul512:
   ; CHECK:       # %bb.0:
   ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
   ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
   ; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
   ; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm4 =
   ; CHECK-NEXT:    vpunpckhlwb {{.*#+}} ymm3 =
   ; CHECK-NEXT:    vpmullw %ymm2, %ymm4, %ymm2
   ; CHECK-NEXT:    vpand %ymm5, %ymm2, %ymm2
   ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
   ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
   ; CHECK-NEXT:    vpmullw %ymm2, %ymm4, %ymm2
   ; CHECK-NEXT:    vpand %ymm5, %ymm2, %ymm2
   ; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
   ; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
   ; CHECK-NEXT:    vpmullw %ymm2, %ymm4, %ymm2
   ; CHECK-NEXT:    vpand %ymm5, %ymm2, %ymm2
   ; CHECK-NEXT:    vpackuswb %ymm2, %ymm1, %ymm1
   ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
   ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
   ; CHECK-NEXT:    vzeroupper
   ; CHECK-NEXT:    retq
   %d = load <64 x i8>, <64 x i8>* %a
   %e = load <64 x i8>, <64 x i8>* %b
   %f = mul <64 x i8> %d, %e
   store <64 x i8> %f, <64 x i8>* %c
   ret void
}
; CHECK-NEXT:  vpandq %zmm3, %zmm2, %zmm2
; CHECK-NEXT:  vpunpcklbw {{.*#+}} %zmm1 =
  zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5]
  ,zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19]
  ,zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0[32]
  ,zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37]
  ,zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50]
  ,zmm1[51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
; CHECK-NEXT:  vpunpcklbw {{.*#+}} %zmm0 =
  zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
  6,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT:  vppackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

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LLVM Team

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Program Directory
define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; VEC512-LABEL: 'zext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

define void @zext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'zext512'
}
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
}
define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ret void
}

define void sext512() {  
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ret void
}

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; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

} $OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp$

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 */

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"
%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
  br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

  sw.bb.i: ; preds = %while.body
  unreachable

  sw.bb3.i: ; preds = %while.body
  unreachable

  exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

  sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

  exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

  while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

Open Source Used In NFVIS Branch Virtualization 4.8.1 7117
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0> ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0> ret <4 x double> %res
}

define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}

define internal void @innerNoAttribute() {
ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}
; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %2 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %2 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %4 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %8 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4
define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
<td>pyyaml tests</td>
<td>llvm/test/YAMLParser/{*.data, LICENSE.TXT}</td>
</tr>
<tr>
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<td>llvm/lib/Target/ARM/LICENSE.TXT</td>
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<tr>
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<td>llvm/lib/Support/MD5.cpp llvm/include/llvm/Support/MD5.h</td>
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "'LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
define fp128 @TestSelect(fp128 %a, fp128 %b) {
    %cmp = fcmp ogt fp128 %a, %b
    %sub = fsub fp128 %a, %b
    %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
    ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK      movaps 16(%rsp), %xmm1
; CHECK-NEXT   callq __subtf3
; CHECK-NEXT   testl %ebx, %ebx
; CHECK-NEXT   jg .LBB0_2
; CHECK-NEXT   # %bb.1:
; CHECK-NEXT   movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT   .LBB0_2:
; CHECK-NEXT   addq $32, %rsp
; CHECK-NEXT   popq %rbx
; CHECK-NEXT   retq
}

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
}

; CHECK-LABEL: TestFabs:
; CHECK      andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT   retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

; CHECK-LABEL: TestCopysign:
; CHECK      andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT   orps %xmm1, %xmm0
; CHECK-NEXT   retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000000000000000000000, %mul
    ret fp128 %res
}

; CHECK-LABEL: TestFneg:
; CHECK      movaps %xmm0, %xmm1
; CHECK-NEXT   callq __multf3
; CHECK-NEXT   xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT   popq %rax
; CHECK-NEXT   retq
}

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# Merge Descriptors ![Build Status](https://travis-ci.org/component/merge-descriptors.png)(https://travis-ci.org/component/merge-descriptors)

Merge objects using descriptors.

```js
var thing = {
    get name() {
        return 'jon'
    }
}

var animal = {

}

merge(animal, thing)

animal.name === 'jon'
```

## API

### merge(destination, source)

Overwrites `destination`’s descriptors with `source`’s.

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1.980 flyway-core 5.0.7
1.981 procps 3.3.10 17.el7

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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1.998 chardet 3.0.4

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1.999 json-parse-helpfulerror 1.0.3

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A. HISTORY OF THE SOFTWARE
============================

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

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

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

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

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1.1004 realize-package-specifier 3.0.1

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1.1006 network-manager 1.10.2 13.el7

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

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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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1.1008 boost 1.53.0 27.el7
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<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
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.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral Constant</a>`: that includes a number of rather intrusive workarounds for broken compilers.

The <code class="computeroutput">T</code> type is not
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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
ccontributions 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 (brazil@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 Petersen(jep@mitiame.mitia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.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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//

#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> {};

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

#endif // BOOST_INTERPROCESS_DETAIL_MPL_HPP
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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Index: boost/mpl/print.hpp
+#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
+    enum { n = aux::dependent_unsigned<T>::value > -1 }; 
+#elif defined(__EDG_VERSION__)
+    enum { n1 }; 
+    enum { n2 }; 
+    enum { n = n1 != n2 }; 
+#else
+    enum { n = sizeof(T) > -1 }; 
+#endif
};

#if defined(BOOST_MSVC)

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

#endif 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>

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

#include <cstdlib>
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
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 { }; };
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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#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;
};

}}
}
#endif // BOOST_INTRUSIVE_DETAIL_MPL_HPP
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_<0 != C::value, T1, T2>::type type;
};

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

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

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

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

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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

#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;  };
#endif

// see boost ticket #4094
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  };
#endif

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;  };
#endif

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;  };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#else // 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;  };
#endif

#endif // 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

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;  };
#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;  };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#else // 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;  };
#endif

#endif // 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

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<typename 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
[section:mpl MPL Interoperability]

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.

Purely as an implementation detail, this means that `__true_type` inherits from [`boost::mpl::true_`], `__false_type` inherits from [`boost::mpl::false_`], and `__integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`)

[endsect]

[/*
  * Copyright (c) 2003 Dr John Maddock
  * Use, modification and distribution is subject to the
  * 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 <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>
//
//@author OWASP NFVIS
//@url https://owasp.org/nfvis
//@description Open Source Used In NFVIS Branch Virtualization 4.8.1
//@note
//@version 1.0
//@copyright OWASP NFVIS
//@license
//@html_split
//@html_end

// 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">
<html>
<head>
<title>Boost Licence Dependency Information</title>
</head>
<body>
<H1>Boost Licence Dependency Information</H1>
<dl>
</dl>
</body>
</html>"
}

if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

while(i != j)
{
// title:
    os << " <a href="#files" Files with no recognised license</a>
    os << " <a href="#files" Files with no recognised copyright holder</a>
    os << " <a href="#files" Files that can be automatically converted to the Boost Software License</a>
    os << " <a href="#files" Files that can be manually converted to the Boost Software License</a>
    os << " <a href="#files" Files that can NOT be moved to the Boost Software License</a>
    os << " <a href="#files" Authors we need to move to the Boost Software License</a>
    os << " <a href="#files" Copyright Holder Information</a>
}
os <<
"<a href="#depend">File Dependency Information</a><br>
";

//
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>
else
    os << "<P>The following Boost modules were checked:<BR>
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 << "<BR>
    ++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 % 100 << "." << version % 100
        << " </P><br>"
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>";

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while(i != j)
{
    // title:
    os << "<H3>&lt;a name=" << make_link_target(licenses.first[i->first].license_name) << "</a>&quot; << licenses.first[i->first].license_name << 
            "&lt;/H3&gt;&lt;n";
    // license text:
    os << "&lt;BLOCKQUOTE&gt;" << licenses.first[i->first].license_text << 
            "&lt;/BLOCKQUOTE&gt;";
    // Copyright holders:
    os << "&lt;p&gt;This license is used by " << i->second.authors.size() 
            " authors and " << i->second.files.size() 
            " files &lt;a href="#" << make_link_target(licenses.first[i->first].license_name) << "">(see details)</a>";
    os << "&lt;/p&gt;&lt;/BLOCKQUOTE&gt;&lt;n";
    ++i;
}

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


m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>
        ++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><a name="files"></a>Files With No Recognisable Licence</h2>
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P><BLOCKQUOTE><P>
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) << "<br>
        ++i2;
}
os << "</P></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P><BLOCKQUOTE><P>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
        ++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><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><p>
" << 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>
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><br>\n<table border="1" >\n<tr><tt>


" << i->second.first << "</pre></tt>\n  &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n...
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
    // Output list of authors that we need permission for to move to the BSL
    //
    os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
    "<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>
    
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
    os << "</p></BLOCKQUOTE>";
    //
    // output a table of copyright information:
    //
    os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1" style="|">
    std::map<std::string, std::set<fs::path, path_less> > ad, ead;
    ad = m_language_data.begin();
    ead = m_language_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>
        ++ad;
    }
    os << "</table>\n";
    }
    //
    // output file dependency information:
    //
    os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
    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;
    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>)</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 << split_path(fs::path(), dep->second);
1.1009 json-c 0.11

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* /opt/cola/permits/1027454137_1613783247.13/0/servlet-api-4-0-0-sources-2-
  jar/org/xipki/http/servlet/AbstractHttpServletRequest.java
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  jar/org/xipki/http/servlet/HttpServlet.java
* /opt/cola/permits/1027454137_1613783247.13/0/servlet-api-4-0-0-sources-2-
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 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
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* /opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources-jar/netty_epoll_linuxsocket.h
* /opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources-jar/netty_epoll_linuxsocket.c
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* /opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

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* /opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources-jar/io/netty/channel/epoll/package-info.java
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*/opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources.jar/io/netty/channel/epoll/EpollTcpInfo.java
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*/opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources.jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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  jar/netty_epoll_native.c
* /opt/ws_local/PERMITS_SQL/1068497208_1594393159.94/0/netty-transport-native-epoll-4-1-49-final-sources-
  jar/io/netty/channel/epoll/Native.java

1.1018 libnfsidmap 0.25 19.el7

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Marius Aamodt Eriksen <marius@umich.edu>
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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/buf/LocalStrings.properties
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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/coyote/http11/upgrade/LocalStrings.properties
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/coyote/http11/filters/LocalStrings.properties
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/http/parser/LocalStrings.properties
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFileItem.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadBase.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/net/NioSelectorPool.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/package-info.java
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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/http/fileupload/FileItemHeadersSupport.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/net/SocketProperties.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/net/SecureNioChannel.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/modeler/modules/MbeansSourceMBean.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/ExceptionUtils.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/http/fileupload/disk/DiskFileItemFactory.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/http/fileupload/MultipartStream.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/http/fileupload/util/Closeable.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/http/fileupload/IOUtils.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/http/fileupload/ParameterParser.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/threads/ThreadPoolExecutor.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/http/fileupload/DeferredFileOutputStream.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/modeler/modules/ModelerSource.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/http/fileupload/ProgressListener.java
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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1.jar/org/apache/tomcat/util/modeler/BaseAttributeFilter.java
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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/util/bcel/classfile/ClassParser.java
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  jar/org/apache/tomcat/util/bcel/classfile/ConstantClass.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/util/bcel/classfile/ConstantLong.java
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  jar/org/apache/tomcat/util/bcel/classfile/SimpleElementValue.java
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  jar/org/apache/tomcat/util/bcel/classfile/ElementValuePair.java
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  jar/org/apache/tomcat/util/bcel/classfile/ConstantInteger.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/util/bcel/classfile/AnnotationElementValue.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/util/bcel/classfile/JavaClass.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/util/bcel/classfile/ClassFormatException.java
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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
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/* Callback to trigger Tomcat's proprietary HTTP upgrade process. */

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 */
/**
 * Listener to which data available events are passed once the associated
 * connection has completed the proprietary Tomcat HTTP upgrade process.
 *
 * @deprecated  Will be removed in Tomcat 8.0.x.
 */

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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/coyote/http11/upgrade/servlet31/WebConnection.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/coyote/http11/upgrade/servlet31/HttpUpgradeHandler.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/threads/StopPooledThreadException.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/collections/ConcurrentCache.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/coyote/ajp/AbstractAjpProcessor.java
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*/
// upgraded using Tomcat's proprietary HTTP upgrade mechanism.

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// Tomcat 7 proprietary upgrade

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// Servlet 3.1 based HTTP upgrade mechanism. NO-OPs for the proprietary

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  jar/org/apache/coyote/http11/Http11NioProtocol.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/util/bcel/classfile/ConstantUtf8.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/util/net/DefaultServerSocketFactory.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/coyote/ajp/AjpMessage.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/jni/FileInfo.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/coyote/Processor.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/coyote/http11/filters/VoidOutputFilter.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-
  jar/org/apache/tomcat/jni/ProcErrorCallback.java
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jar/org/apache/coyote/RequestGroupInfo.java
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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/jni/Mmap.java
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* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/coyote/http11/HeadersTooLargeException.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/coyote/http11/Http11AprProcessor.java
* /opt/cola/permits/1137623719_1614109142.87/0/tomcat-coyote-7-0-76-sources-1-jar/org/apache/tomcat/util/http/parser/MediaType.java
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1.1021 pycrypto 2.6.1

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Last updated: 2009-02-28

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1.1025 jersey-bean-validation 2.29.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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
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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
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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!
@c \input texinfo.tex  @c -*-texinfo-*-  
@c  
@c %**start of header

@c All text is ignored before the setfilename.
@setfilename LGPL.info

@center GNU LESSER GENERAL PUBLIC LICENSE
@center Version 2.1, February 1999

@sp 1

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@sp 1
@center Preamble
@sp 1

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

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

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

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

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

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

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

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

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

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

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

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.

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:

@enumerate
@item
The modified work must itself be a software library.

@sp 1
@item
You must cause the files modified to carry prominent notices stating
that you changed the files and the date of any change.

@sp 1
@item
You must cause the whole of the work to be licensed at no charge to all
third parties under the terms of this License.

@sp 1
@item
If a facility in the modified Library refers to a function or a table of
data to be supplied by an application program that uses the facility,
other than as an argument passed when the facility is invoked, then you
must make a good faith effort to ensure that, in the event an
application does not supply such function or table, the facility still
operates, and performs whatever part of its purpose remains meaningful.

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

@end enumerate

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

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

In addition, mere aggregation of another work not based on the Library 
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this, you must alter all the notices that refer to this License, so that 
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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 
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complete corresponding machine-readable source code, which must be 
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customarily used for software interchange.

If distribution of object code is made by offering access to copy from a 
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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.

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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@enumerate
  @item
  You must indicate the nature of modification of the work.
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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.)

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.

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.

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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
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and of the other library facilities is otherwise permitted, and provided
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@end enumerate

@sp 1
@item
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.

@sp 1
@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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1.1040 libnetfilter-conntrack 1.0.6 1.el7_3

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1.1041 cmd-shim 2.0.2

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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,

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The source code for a work means the preferred form of the work for
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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
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END OF TERMS AND CONDITIONS

Appendix: 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 convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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.

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[This is the first released version of the library GPL. It is
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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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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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Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

**1.1052 libpipeline 1.2.3 3.el7**

**1.1052.1 Available under license:**

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make it effectively proprietary. To prevent this, the GPL assures that
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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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)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d055067c18f2cf9 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 1st primary partition
ada64ace122978d00d1d1e5ee45d26 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
1beb87248e05d6e462b749da65d023 bsd.img
Set 2nd partition type
2d8e8d5a88a045db233418dd73fbd5e 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
2e1cee529cb59e9341afe0443f196a1 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 [fsizes 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 [fsizes 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):**

<table>
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<th>9</th>
<th>4.4LFS</th>
<th>d</th>
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<td>unknown</td>
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<td>2</td>
<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b</td>
<td>HPFS</td>
<td>f</td>
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<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c</td>
<td>ISO-9660</td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

**BSD disklabel command (m for help):**

---

**1.1054 bind 9.9.4-61.el7**

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

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

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

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(string-before($text, '&#10;'))"/>
  <xsl:variable name="rest" select="substring-after($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">
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</xsl:variable>
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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/ue.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2b5b6,

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.

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 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.1055 tomcat-embed-websocket 9.0.29

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1.1058 qs 6.1.0

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jar/org/springframework/boot/actuate/health/SimpleStatusAggregator.java
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1.1082 github.com/seccomp/libseccomp-golang 0.9.1

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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
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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
libsensors and sensors.

* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.

* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.1100 libcap-ng 0.7.5 4.el7
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jar/io.netty.handler.codec.spdy/SpdyFrame.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io.netty.handler.codec.spdy/SpdySettingsFrame.java
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1.1112 libuv 1.6.1

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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                        
    uv__io_t event_watcher;                                                 

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
    int rcount;                                                            
    int wcount;                                                           

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *

========

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1.1113.1 gawk 4.0.2

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

That's all there is to it!

1.1114 ini 1.3.3
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1.1120 cyphar-filepath-securejoin 0.2.2

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1.1121 slf4j 1.7.30

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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*******************
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.cnr.rieston.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              |
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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 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.
Asynchronous socket services
----------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Cookie management
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Modified by Jack Jansen, CWI, July 1995:  
- Use binascii module to do the actual line-by-line conversion  
  between ascii and binary. This results in a 1000-fold speedup. The C  
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--------------------------

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

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1.1130 pycrypto 2.6.1-5.ph2

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Last updated: 2009-02-28

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### EOF ###

### 1.1131 system-storage-manager 0.4 ###

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## Use as a JavaScript Library

[![devDependency Status](https://david-dm.org/shinnn/spdx-license-ids/dev-status.svg)](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)

### Installation

---

Open Source Used In NFVIS Branch Virtualization 4.8.1 8310
### Package managers

#### npm

```
```
```
```
```
```
```

#### bower

```
```
```
```
```
```

#### Duo

```
```
```
```
```
```

### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

### API

#### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```
```
```
```
```
```

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`sudo: false`

`git`

  `depth: 1`

`language: node_js`

`node_js: node`

`after_script:`

  - `npm install Istanbul-coveralls`
1.1136 dhcp 4.2.5

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c7f2bb5b6.

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

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/**
 * JSONSchema Validator - Validates JavaScript objects using JSON Schemas
 * *(http://www.json.com/json-schema-proposal/)
 *
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 To use the validator call the validate function with an instance object and an optional schema object.
 If a schema is provided, it will be used to validate. If the instance object refers to a schema (self-validating),
 that schema will be used to validate and the schema parameter is not necessary (if both exist,
 both validations will occur).

 The validate method will return an array of validation errors. If there are no errors, then an
 empty list will be returned. A validation error will have two properties:
 "property" which indicates which property had the error
 "message" which indicates what the error was
 */

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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.

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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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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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3.2     3.1    2010    PSF    yes  

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* Jim Fulton
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* Justin Azoff
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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

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1.1149 binutils 2.25.1

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That's all there is to it!
(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.
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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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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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That's all there is to it!
# This file contains a list of people who've made non-trivial contribution to the Google C++ Testing Framework project. People who commit code to the project are encouraged to add their names here. Please keep the list sorted by first names.

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From 032df66e235e2f87d6882fda269843f9fa83b8cf Mon Sep 17 00:00:00 2001
From: "commit-queue@webkit.org"
Date: Fri, 6 Oct 2017 06:32:57 +0000
Subject: [PATCH] Update Source/ThirdParty/woff2 to 22c256bc4577777744ba14b7325a6e8e07dec91c
https://bugs.webkit.org/show_bug.cgi?id=177994
Patch by Frederic Wang <fwang@igalia.com> on 2017-10-05
Reviewed by Michael Catanzaro.

Source/ThirdParty:

* woff2/CMakeLists.txt: Also consider the directory for public headers.
* woff2/README.webkit:
  * woff2/include/woff2/decode.h: Renamed from Source/ThirdParty/woff2/src/woff2_dec.h.
  * woff2/include/woff2/encode.h: Renamed from Source/ThirdParty/woff2/src/woff2_enc.h.
(woff2::WOFF2Params::WOFF2Params):
  * woff2/include/woff2/output.h: Renamed from Source/ThirdParty/woff2/src/woff2_out.h.
(woff2::WOFF2Out::~WOFF2Out):
(woff2::WOFF2StringOut::MaxSize):
  * woff2/src/buffer.h:
  * woff2/src/convert_woff2.ttf_*_.cc:
  * woff2/src/file.h:
  * woff2/src/font.cc:
  * woff2/src/font.h:
  * woff2/src/glyph.cc:
  * woff2/src/glyph.h:
  * woff2/src/normalize.cc:
  * woff2/src/normalize.h:
  * woff2/src/port.h:
  * woff2/src/round.h:
  * woff2/src/store_bytes.h:
  * woff2/src/table_tags.cc:
  * woff2/src/table_tags.h:
  * woff2/src/transform.cc:
  * woff2/src/transform.h:
  * woff2/src/variable_length.cc:
  * woff2/src/variable_length.h:
  * woff2/src/woff2_common.cc:
  * woff2/src/woff2_common.h:
  * woff2/src/woff2_compress.cc:
  * woff2/src/woff2_dec.cc:
  * woff2/src/woff2_decompress.cc:
  * woff2/src/woff2_enc.cc:
  * woff2/src/woff2_info.cc:
  * woff2/src/woff2_out.cc:
  * woff2/update.sh: Also consider directory for public headers.

Source/WebCore:

No new tests, already covered by existing tests.

* CMakeLists.txt: Include the directory for public headers instead.
* platform/graphics/WOFFFileFormat.cpp: Use the public header woff2/decode.h and do not use the "wOF2" constant from private headers.
// Library for converting WOFF2 format font files to their TTF versions.
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+*/
+
+/* Library for converting WOFF2 format font files to their TTF versions. */

#ifndef WOFF2_WOFF2_DEC_H_
#define WOFF2_WOFF2_DEC_H_

#include <stddef.h>
#include <inttypes.h>
#include <woff2/output.h>

namespace woff2 {

diff --git a/Source/ThirdParty/woff2/src/woff2_enc.h b/Source/ThirdParty/woff2/include/woff2/encode.h
similarity index 57%
rename from Source/ThirdParty/woff2/src/woff2_enc.h
rename to Source/ThirdParty/woff2/include/woff2/encode.h
index 3ac8c3ab1bd..34b77229749 100644
--- a/Source/ThirdParty/woff2/src/woff2_enc.h
+++ b/Source/ThirdParty/woff2/include/woff2/encode.h
@@ -1,18 +1,10 @@
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+*/
/* Library for converting WOFF2 format font files to their TTF versions. */

#ifndef WOFF2_WOFF2_ENC_H_
#define WOFF2_WOFF2_ENC_H_
@@ -21,16 +13,13 @@
#include <inttypes.h>
#include <string>

- using std::string;
- 
- namespace woff2 {

 struct WOFF2Params {
   WOFF2Params() : extended_metadata(""), brotli_quality(11),
    allow_transforms(true) {} 

-   string extended_metadata;
+   std::string extended_metadata;
   int brotli_quality;
   bool allow_transforms;
   }
@@ -38,7 +27,7 @@ struct WOFF2Params {
  // Returns an upper bound on the size of the compressed file.
  size_t MaxWOFF2CompressedSize(const uint8_t* data, size_t length);
  size_t MaxWOFF2CompressedSize(const uint8_t* data, size_t length,
-    const string& extended_metadata);
+    const std::string& extended_metadata);

  // Compresses the font into the target buffer. *result_length should be at least
  // the value returned by MaxWOFF2CompressedSize(), upon return, it is set to the
  // diff --git a/Source/ThirdParty/woff2/src/woff2_out.h b/Source/ThirdParty/woff2/include/woff2/output.h
  // similarity index 59%
  // rename from Source/ThirdParty/woff2/src/woff2_out.h
  // rename to Source/ThirdParty/woff2/include/woff2/output.h
  // index c956afa0e2a..c325f67be72 100644
  --- a/Source/ThirdParty/woff2/src/woff2_out.h
  +++ b/Source/ThirdParty/woff2/include/woff2/output.h
  @@ -1,34 +1,10 @@
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namespace woff2 {

   // Suggested max size for output. 
   const size_t kDefaultMaxSize = 30 * 1024 * 1024;

   -using std::string;
   -
   /*
*/
* Output interface for the woff2 decoding.
*
@@ -79,7 +51,7 @@ class WOFF2StringOut : public WOFF2Out {
 // Create a writer that writes its data to buf.
 // buf->size() will grow to at most max_size
 // buf may be sized (e.g. using EstimateWOFF2FinalSize) or empty.
- explicit WOFF2StringOut(string* buf);
+ explicit WOFF2StringOut(std::string* buf);

 bool Write(const void *buf, size_t n) override;
 bool Write(const void *buf, size_t offset, size_t n) override;
@@ -87,7 +59,7 @@ class WOFF2StringOut : public WOFF2Out {
     size_t MaxSize() { return max_size_; }
 void SetMaxSize(size_t max_size);
 private:
- string* buf_;
+ std::string* buf_;
     size_t max_size_;  
     size_t offset_;  
};
diff --git a/Source/ThirdParty/woff2/src/buffer.h b/Source/ThirdParty/woff2/src/buffer.h
index 08681a6fcbf..7240e5181ce 100644
--- a/Source/ThirdParty/woff2/src/buffer.h
+++ b/Source/ThirdParty/woff2/src/buffer.h
@@ -1,19 +1,11 @@
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-// limitations under the License.
-//
-// The parts of ots.h & opentype-sanitiser.h that we need, taken from the
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+*/
+/* The parts of ots.h & opentype-sanitiser.h that we need, taken from the
#ifndef WOFF2_BUFFER_H_
#define WOFF2_BUFFER_H_

#include <stddef.h>
#include <stdint.h>

// Entry point for LibFuzzer.
extern "C" int LLVMFuzzerTestOneInput(const uint8_t* data, size_t size) {

// Decode using newer entry pattern.
extern "C" int LLVMFuzz2rTestOneInput(const uint8_t *data, size_t data_size) {

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+ // Code for OTS project.
+ #ifndef WOFF2_BUFFER_H_
+ #define WOFF2_BUFFER_H_
+ 
diff --git a/Source/ThirdParty/woff2/src/convert_woff2ttf_fuzzer.cc
b/Source/ThirdParty/woff2/src/convert_woff2ttf_fuzzer.cc
index 3fd15bc2d0..2d977a3ef20 100644
--- a/Source/ThirdParty/woff2/src/convert_woff2ttf_fuzzer.cc
+++ b/Source/ThirdParty/woff2/src/convert_woff2ttf_fuzzer.cc
@@ -1,7 +1,7 @@
#include <stddef.h>
#include <stdint.h>
-#include "woff2_dec.h"
+#include <woff2/decode.h>

+-#include "woff2_dec.h"
+#include <woff2/decode.h>

// Entry point for LibFuzzer.
extern "C" int LLVMFuzzerTestOneInput(const uint8_t* data, size_t size) {

diff --git a/Source/ThirdParty/woff2/src/convert_woff2ttf_fuzzer_new_entry.cc
b/Source/ThirdParty/woff2/src/convert_woff2ttf_fuzzer_new_entry.cc
index 7511491b1e..5ad93364bf6d 100644
--- a/Source/ThirdParty/woff2/src/convert_woff2ttf_fuzzer_new_entry.cc
+++ b/Source/ThirdParty/woff2/src/convert_woff2ttf_fuzzer_new_entry.cc
@@ -1,5 +1,5 @@
#include <string>
-#include "woff2_dec.h"
+#include <woff2/decode.h>

extern "C" int LLVMFuzz2rTestOneInput(const uint8_t *data, size_t data_size) {
    // Decode using newer entry pattern.

diff --git a/Source/ThirdParty/woff2/src/file.h b/Source/ThirdParty/woff2/src/file.h
index 7afcb315fe8..61318776be3 100644
--- a/Source/ThirdParty/woff2/src/file.h
+++ b/Source/ThirdParty/woff2/src/file.h
@@ -1,18 +1,10 @@
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---

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#ifndef WOFF2_FILE_H_
#define WOFF2_FILE_H_

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*/

/* File IO helpers */
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+/

/* Data model for a font file in sfnt format, reading and writing functions and accessor for the glyph data. */

#ifndef WOFF2_FONT_H_
#define WOFF2_FONT_H_

#include "woff2.h"

/* Data model for a font file in sfnt format, reading and writing functions and accessor for the glyph data. */

#endif /* WOFF2_FONT_H_ */
/* Data model and I/O for glyph data within sfnt format files for the purpose of performing the preprocessing step of the WOFF 2.0 conversion. */

#ifndef WOFF2_GLYPH_H_
#define WOFF2_GLYPH_H_

#include "./glyph.h"

diff --git a/Source/ThirdParty/woff2/src/glyph.h b/Source/ThirdParty/woff2/src/glyph.h
index 0ee755c2f5a..f24056f6c8c 100644
--- a/Source/ThirdParty/woff2/src/glyph.h
+++ b/Source/ThirdParty/woff2/src/glyph.h
@@ -1,19 +1,11 @@
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-//
-// Data model and I/O for glyph data within sfnt format files for the purpose of performing the preprocessing step of the WOFF 2.0 conversion.
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+ */
+
+/* Data model and I/O for glyph data within sfnt format files for the purpose of performing the preprocessing step of the WOFF 2.0 conversion. */

#ifndef WOFF2_GLYPH_H_
#define WOFF2_GLYPH_H_

diff --git a/Source/ThirdParty/woff2/src/normalize.cc b/Source/ThirdParty/woff2/src/normalize.cc
index 1af3b7db66b..39f9405fd31 100644
--- a/Source/ThirdParty/woff2/src/normalize.cc
+++ b/Source/ThirdParty/woff2/src/normalize.cc
@@ -1,18 +1,10 @@
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+*/
+
+/* Glyph normalization */

#include "./normalize.h"

diff --git a/Source/ThirdParty/woff2/src/normalize.h b/Source/ThirdParty/woff2/src/normalize.h
index e0153488ed3..c6fee74db60 100644
--- a/Source/ThirdParty/woff2/src/normalize.h
+++ b/Source/ThirdParty/woff2/src/normalize.h
@@ -1,20 +1,12 @@
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-//
-// Functions for normalizing fonts. Since the WOFF 2.0 decoder creates font
-// files in normalized form, the WOFF 2.0 conversion is guaranteed to be
-// lossless (in a bitwise sense) only for normalized font files.
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/* Functions for normalizing fonts. Since the WOFF 2.0 decoder creates font files in normalized form, the WOFF 2.0 conversion is guaranteed to be lossless (in a bitwise sense) only for normalized font files. */

#ifndef WOFF2_NORMALIZE_H_
#define WOFF2_NORMALIZE_H_

diff --git a/Source/ThirdParty/woff2/src/port.h b/Source/ThirdParty/woff2/src/port.h
index b302d6c4959..8b60ee8be9 100644
--- a/Source/ThirdParty/woff2/src/port.h
+++ b/Source/ThirdParty/woff2/src/port.h
@@ -1,18 +1,10 @@
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-// Helper function for bit twiddling and macros for branch prediction.
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+*/
+
+/* Helper function for bit twiddling and macros for branch prediction. */

#ifndef WOFF2_PORT_H_
#define WOFF2_PORT_H_

diff --git a/Source/ThirdParty/woff2/src/round.h b/Source/ThirdParty/woff2/src/round.h
index abb81f8235d..e5b2cb12200 100644
--- a/Source/ThirdParty/woff2/src/round.h
+++ b/Source/ThirdParty/woff2/src/round.h
@@ -1,18 +1,10 @@
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/* Helper for rounding */

#ifndef WOFF2_ROUND_H_
#define WOFF2_ROUND_H_

/* Helper functions for storing integer values into byte streams.*/
/* No bounds checking is performed, that is the responsibility of the caller.*/

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/* Helper functions for storing integer values into byte streams.*/
+ No bounds checking is performed, that is the responsibility of the caller. */

#ifndef WOFF2_STORE_BYTES_H_
#define WOFF2_STORE_BYTES_H_

diff --git a/Source/ThirdParty/woff2/src/table_tags.cc b/Source/ThirdParty/woff2/src/table_tags.cc
index 0071e00b00c..dca3ec8d287 100644
--- a/Source/ThirdParty/woff2/src/table_tags.cc
+++ b/Source/ThirdParty/woff2/src/table_tags.cc
@@ -1,18 +1,10 @@
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-// Font table tags
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+*/
+
+/* Font table tags */

#include "./table_tags.h"

diff --git a/Source/ThirdParty/woff2/src/table_tags.h b/Source/ThirdParty/woff2/src/table_tags.h
index daa5d9215de..42dc0ae1c44 100644
--- a/Source/ThirdParty/woff2/src/table_tags.h
+++ b/Source/ThirdParty/woff2/src/table_tags.h
@@ -1,18 +1,10 @@
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--- a/Source/ThirdParty/woff2/src/transform.h
+++ b/Source/ThirdParty/woff2/src/transform.h
@@ -1,18 +1,10 @@
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-// Library for preprocessing fonts as part of the WOFF 2.0 conversion.
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+*/
+
+/* Library for preprocessing fonts as part of the WOFF 2.0 conversion. */

#ifndef WOFF2_TRANSFORM_H_
#define WOFF2_TRANSFORM_H_

diff --git a/Source/ThirdParty/woff2/src/variable_length.cc b/Source/ThirdParty/woff2/src/variable_length.cc
index 264eb0a1603..4f348d5e504 100644
--- a/Source/ThirdParty/woff2/src/variable_length.cc
+++ b/Source/ThirdParty/woff2/src/variable_length.cc
@@ -1,18 +1,10 @@
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-//
-// Helper functions for woff2 variable length types: 255UInt16 and UIntBase128

---
/* Helper functions for woff2 variable length types: 255UInt16 and UIntBase128 */

#include "./variable_length.h"

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/* Helper functions for woff2 variable length types: 255UInt16 and UIntBase128 */

#ifndef WOFF2_VARIABLE_LENGTH_H_
#define WOFF2_VARIABLE_LENGTH_H_

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/* Helper functions for woff2 variable length types: 255UInt16 and UIntBase128 */
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-// Helpers common across multiple parts of woff2
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+ */
+ +
+ /* Helpers common across multiple parts of woff2 */

#include <algorithm>

diff --git a/Source/ThirdParty/woff2/src/woff2_common.h b/Source/ThirdParty/woff2/src/woff2_common.h
index a8c45af80e1..51fd4a7bf8a 100644
--- a/Source/ThirdParty/woff2/src/woff2_common.h
+++ b/Source/ThirdParty/woff2/src/woff2_common.h
@@ -1,18 +1,10 @@
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-// Common definition for WOFF2 encoding/decoding
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+ */
+ +
/* Common definition for WOFF2 encoding/decoding */

#ifndef WOFF2_WOFF2_COMMON_H_
#define WOFF2_WOFF2_COMMON_H_

diff --git a/Source/ThirdParty/woff2/src/woff2_compress.cc b/Source/ThirdParty/woff2/src/woff2_compress.cc
index e5cf710793..80e31086676 100644
--- a/Source/ThirdParty/woff2/src/woff2_compress.cc
+++ b/Source/ThirdParty/woff2/src/woff2_compress.cc
@@ -1,23 +1,15 @@
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-//
-// A commandline tool for compressing ttf format files to woff2.
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+*/
+
+/* A commandline tool for compressing ttf format files to woff2. */

#include <string>
#include "file.h"
-#include ".woff2_enc.h"
+#include <woff2/encode.h>

int main(int argc, char **argv) {

diff --git a/Source/ThirdParty/woff2/src/woff2_dec.cc b/Source/ThirdParty/woff2/src/woff2_dec.cc
index 831dd45551..8186c8e5d9e 100644
--- a/Source/ThirdParty/woff2/src/woff2_dec.cc
+++ b/Source/ThirdParty/woff2/src/woff2_dec.cc
@@ -1,20 +1,12 @@
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// Library for converting WOFF2 format font files to their TTF versions.

#include <woff2/decode.h>
#include <stdlib.h>
#include <algorithm>
#include <memory>
#include <utility>
差 --git a/Source/ThirdParty/woff2/src/woff2_decompress.cc b/Source/ThirdParty/woff2/src/woff2_decompress.cc
index a3422bf6767..de088b9ec0f 100644
--- a/Source/ThirdParty/woff2/src/woff2_decompress.cc
+++ b/Source/ThirdParty/woff2/src/woff2_decompress.cc
@@ -27,7 +19,7 @@
 #include <brotli/decode.h>
 +#include <brotli/decode.h>
 #include <buffer.h>
 #include <port.h>
 #include <round.h>

diff --git a/Source/ThirdParty/woff2/src/woff2_decompress.cc b/Source/ThirdParty/woff2/src/woff2_decompress.cc
index a3422bf6767..de088b9ec0f 100644
--- a/Source/ThirdParty/woff2/src/woff2_decompress.cc
+++ b/Source/ThirdParty/woff2/src/woff2_decompress.cc
@@ -1,24 +1,16 @@
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-//
/* Copyright 2014 Google Inc. All Rights Reserved. */

#include <string>

#include "./file.h"
-#include ".woff2_dec.h"
+#include <woff2/decode.h>

int main(int argc, char **argv) {

}
Open Source Used In NFVIS Branch Virtualization 4.8.1 8643
// A commandline tool for dumping info about a woff2 file.
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+*/
+
+/* A commandline tool for dumping info about a woff2 file. */

#include <string>

diff --git a/Source/ThirdParty/woff2/src/woff2_out.cc b/Source/ThirdParty/woff2/src/woff2_out.cc
index 8882306445b..8ab32681f1d 100644
--- a/Source/ThirdParty/woff2/src/woff2_out.cc
+++ b/Source/ThirdParty/woff2/src/woff2_out.cc
@@ -1,20 +1,14 @@
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-// distributed under the License is distributed on an "AS IS" BASIS,
-// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
-// See the License for the specific language governing permissions and
-// limitations under the License.
-//
-// Output buffer for WOFF2 decompression.
+/* Copyright 2014 Google Inc. All Rights Reserved.
+   Distributed under MIT license.
+   See file LICENSE for detail or copy at https://opensource.org/licenses/MIT
+*/
+/* Output buffer for WOFF2 decompression. */
+
+#include <woff2/output.h>

namespace woff2 {

diff --git a/Source/ThirdParty/woff2/update.sh b/Source/ThirdParty/woff2/update.sh
index c67cb43f1c6..7e15f564ff1 100755

--- a/Source/ThirdParty/woff2/update.sh
+++ b/Source/ThirdParty/woff2/update.sh
@@ -10,8 +10,9 @@
@@ -3653,7 +3653,7 @@
endif()
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@-140,7 +140,7 @@ bool convertWOFFToSfnt(SharedBuffer& woff, Vector<char>& sfnt)
}

#if USE(WOFF2)
-    if (signature == woff2::kWoff2Signature) {
+    if (signature == kWoff2Signature) {
        const uint8_t* woffData = reinterpret_cast_ptr<const uint8_t*>(woff.data());
        const size_t woffSize = woff.size();
        const size_t sfntSize = woff2::ComputeWOFF2FinalSize(woffData, woffSize);

2.14.2
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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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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
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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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
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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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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.

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

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

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

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

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

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

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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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## 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,-Bs

## 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) $< \n | sed \"\"s/\$(\$\n)\\.o [ :]*/\1.o $@ : /g\" > $@;\n [ -s $@ ] \| rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n | sed \"\"s/\$(\$\n)\\.o [ :]*/\1.o $@ : /g\" > $@;\n [ -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) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs symbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
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* /opt/ cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ElementKind.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/validation/GroupConversionDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/validation/MethodType.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/validation/ConstructorDescriptor.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/validation/ElementDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/validation/ContainerElementTypeDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/validation/GroupDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/validation/Min.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/ConvertGroup.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/ConvertGroup.java
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1.1163 file 5.11 33.el7
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1.1166 xfsdump 3.1.7

1.1167 pango 1.40.4 1.el7

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1.1168 libsgutils 1.37-12.el7

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1.1177 are-we-there-yet 1.1.2
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1.1178 nettle 2.7.1 8.el7

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/* pbkdf2-hmac-sha256.c
 *
  * PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
  */

/* nettle, low-level cryptographics library
 *
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  *
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  * The nettle library is distributed in the hope that it will be useful, but
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  *
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  * MA 02111-1301, USA.
  */

/* crypto/des/destest.c */

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jar/javassist/tools/reflect/Reflection.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/bytecode/ByteStream.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/convert/TransformCall.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/CtArray.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/bytecode/DeprecatedAttribute.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4.jar/javassist/compiler/ast/Declarator.java
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- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/ClassMetaobject.java
- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ProceedHandler.java
- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/NewArray.java
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- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SourceFileAttribute.java
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- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Frame.java
- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Symbol.java
- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/ObjectImporter.java
- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Bytecode.java
- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/InstanceOfExpr.java
- /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/AppletServer.java
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jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/EnumMemberValue.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/BooleanMemberValue.java
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### 1.1189 eclipselink 2.6.2

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```java
package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;

/**
 * <p><b>Purpose</b>: Allows customization of how an object is cloned.
 */
```
* This class defines common behavior that allows a subclass to be used
* and set on a descriptor to provide a special cloning routine for how an object
* is cloned in a unit of work.
*/
public abstract class AbstractCopyPolicy implements CopyPolicy {
    protected ClassDescriptor descriptor;

    public AbstractCopyPolicy() {
        super();
    }

    public abstract Object buildClone(Object domainObject, Session session) throws DescriptorException;

    /**
     * By default use the buildClone.
     */
    public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
        return buildClone(domainObject, session);
    }

    /**
     * By default create a new instance.
     */
    public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
                               UnitOfWork uow) throws DescriptorException {
        return this.descriptor.getObjectBuilder().buildNewInstance();
    }

    /**
     * INTERNAL:
     * Clones the CopyPolicy
     */
    public Object clone() {
        try {
            // clones itself
            return super.clone();
        } catch (Exception exception) {
        }
        return null;
    }

    /**
     * Return the descriptor.
     */
    protected ClassDescriptor getDescriptor() {
        return descriptor;
    }
}
public void initialize(Session session) throws DescriptorException {
    // Do nothing by default.
}

public void setDescriptor(ClassDescriptor descriptor) {
    this.descriptor = descriptor;
}

/**
* Do nothing by default.
*/

/**
* Set the descriptor.
*/

package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.descriptors.PersistenceObject;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
* <p><b>Purpose</b>: This is the default copy policy when weaving is used.
* It creates a copy by creating a shallow clone of the object using the weaved _persistence_shallow_clone() method.
*/
public class PersistenceEntityCopyPolicy extends AbstractCopyPolicy {
    public PersistenceEntityCopyPolicy() {
        super();
    }

    public Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException {
        return ((PersistenceObject)object)._persistence_shallow_clone();
    }
}
public Object buildClone(Object object, Session session) throws DescriptorException {
    return ((PersistenceObject)object)._persistence_shallow_clone();
}

global boolean buildsNewInstance() {
    return false;
}

global String toString() {
    return Helper.getShortClassName(this) + "()";
}

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package org.eclipse.persistence.descriptors.copying;
import java.lang.reflect.*;
import java.security.AccessController;
import java.security.PrivilegedActionException;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.internal.descriptors.ObjectBuilder;
import org.eclipse.persistence.internal.security.PrivilegedAccessHelper;
import org.eclipse.persistence.internal.security.PrivilegedMethodInvoker;

/**
 * <p><b>Purpose</b>: Allows a clone of an object to be created with a method that returns
 * the cloned object.
 *
 * It is possible to define methods for two types of clones
 *
 * 1. methodName can be set to define the method EclipseLink uses to clone objects for it's
 * own internal use. The objects created by this method will not be visible to the user, and
 * instead used as a basis for comparison when a DeferredChangeDetectionPolicy used. This method will
* also be in place of the workingCopyMethod if it is not provided
*
* 2. workingCopyMethod this method is used to create the clone that is returned to the user when an
* Object is registered in a UnitOfWork
*/

public class CloneCopyPolicy extends AbstractCopyPolicy {

/** Allow for clone method to be specified. */
protected String methodName;
protected String workingCopyMethodName;
protected transient Method method;
protected transient Method workingCopyMethod;

public CloneCopyPolicy() {
    super();
}

/**
 * Clone through calling the clone method.
 */
public Object buildClone(Object domainObject, Session session) throws DescriptorException {
    // Must allow for null clone method for 9.0.4 deployment XML.
    if (this.getMethodName() == null) {
        return getDescriptor().getObjectBuilder().buildNewInstance();
    }
    try {
        if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
            try {
                return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getMethod(), domainObject,
                new Object[0]));
            } catch (PrivilegedActionException exception) {
                Exception throwableException = exception.getException();
                if (throwableException instanceof IllegalAccessException) {
                    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
                    this.getDescriptor(), throwableException);
                } else {
                    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
                    this.getDescriptor(), throwableException);
                }
            }
        } catch (IllegalAccessException exception) {
            throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
            this.getDescriptor(), exception);
        } catch (InvocationTargetException exception) {
            throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
            this.getDescriptor(), exception);
        }
    } catch (PrivilegedActionException exception) {
        throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
        this.getDescriptor(), exception);
    } catch (InvocationTargetException exception) {
        throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
        this.getDescriptor(), exception);
    }
}


throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
}
}

/**
 * Clone through the workingCopyClone method, or if not specified the clone method.
 */
public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
    if (this.getWorkingCopyMethodName() == null) {
        //not implemented to perform special operations.
        return this.buildClone(domainObject, session);
    }
    try {
        if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()) {
            try {
                return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getWorkingCopyMethod(),
                                        domainObject, new Object[0]));
            } catch (PrivilegedActionException exception) {
                Exception throwableException = exception.getException();
                if (throwableException instanceof IllegalAccessException) {
                    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
                                        this.getDescriptor(), throwableException);
                } else {
                    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
                                        this.getDescriptor(), throwableException);
                }
            }
        } else {
            return PrivilegedAccessHelper.invokeMethod(this.getWorkingCopyMethod(), domainObject, new
                                        Object[0]);
        }
    } catch (IllegalAccessException exception) {
        throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
                                        this.getDescriptor(), exception);
    } catch (InvocationTargetException exception) {
        throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
                                        this.getDescriptor(), exception);
    }
}

/**
 * Create a new instance, unless a workingCopyClone method is specified, then build a new instance and clone it.
 */
@Override
public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException {
    // For now must preserve CMP code which builds heavy clones with a context.
    // Also preserve for clients who use the copy policy.
    ObjectBuilder builder = getDescriptor().getObjectBuilder();
    if (getWorkingCopyMethodName() != null) {
        Object original = builder.buildNewInstance();
        builder.buildAttributesIntoShallowObject(original, (AbstractRecord)row, query);
        return buildWorkingCopyClone(original, query.getSession());
    } else {
        return builder.buildNewInstance();
    }
}

/**
 * Return the clone method.
 */
protected Method getMethod() {
    return method;
}

/**
 * Return the clone method name.
 */
public String getMethodName() {
    return methodName;
}

/**
 * Return the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected Method getWorkingCopyMethod() {
    return workingCopyMethod;
}

/**
 * Return the workingCopyClone method name.
 * This is used to clone within a unit of work.
 */
public String getWorkingCopyMethodName() {
    return workingCopyMethodName;
}

/**
 * Validate and build the methods.
 */
public void initialize(Session session) throws DescriptorException {
    final Class javaClass = this.getDescriptor().getJavaClass();
try {
    // Must allow for null clone method for 9.0.4 deployment XML.
    if (this.getMethodName() != null) {
        this.setMethod(Helper.getDeclaredMethod(javaClass, this.getMethodName(), new Class[0]));
    }
} catch (NoSuchMethodException exception) {
    session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
} catch (SecurityException exception) {
    session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
}

if (this.getWorkingCopyMethodName() != null) {
    try {
        this.setWorkingCopyMethod(Helper.getDeclaredMethod(javaClass, this.getWorkingCopyMethodName(), new Class[0]));
    } catch (NoSuchMethodException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    } catch (SecurityException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    }
}

/**
 * Set the clone method.
 */
protected void setMethod(Method method) {
    this.method = method;
}

/**
 * Set the clone method name.
 */
public void setMethodName(String methodName) {
    this.methodName = methodName;
}

/**
 * Set the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected void setWorkingCopyMethod(Method method) {
    this.workingCopyMethod = method;
}
public void setWorkingCopyMethodName(String methodName) {
    this.workingCopyMethodName = methodName;
}

public boolean buildsNewInstance() {
    return getMethodName() == null;
}

public String toString() {
    return Helper.getShortClassName(this) + "(" + this.getMethodName() + ")";
}

package org.eclipse.persistence.descriptors.copying;

import java.io.*;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b>: Allows customization of how an object is cloned.
 * An implementer of CopyPolicy can be set on a descriptor to provide
 * special cloning routine for how an object is cloned in a unit of work.
 * By default the InstantiationCopyPolicy is used which creates a new instance of
 * the class to be copied into.
 */
* The CloneCopyPolicy can also be used that uses a clone method in the object
to clone the object. When a clone method is used it avoid the requirement of having to
copy over each of the direct attributes.
*
* @see org.eclipse.persistence.descriptors.copying.CloneCopyPolicy
* @see org.eclipse.persistence.descriptors.copying.InstantiationCopyPolicy
*/

public interface CopyPolicy extends Cloneable, Serializable {

/**
 * Return a shallow clone of the object for usage with object copying, or unit of work backup cloning.
 */
Object buildClone(Object object, Session session) throws DescriptorException;

/**
 * Return a shallow clone of the object for usage with the unit of work working copy.
 */
Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException;

/**
 * Return an instance with the primary key set from the row, used for building a working copy during a unit of
 work transactional read.
 */
Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException;

/**
 * Clone the CopyPolicy.
 */
Object clone();

/**
 * Allow for any initialization or validation required.
 */
void initialize(Session session) throws DescriptorException;

/**
 * Set the descriptor.
 */
void setDescriptor(ClassDescriptor descriptor);

/**
 * Return if this copy policy creates a new instance, vs a clone.
 */
boolean buildsNewInstance();
}

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package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions. *
import org.eclipse.persistence.internal.helper. *
import org.eclipse.persistence.sessions. *

/**
* <p><b>Purpose</b>: This is the default copy policy.
* It creates a copy by creating a new instance of the object and then using the
* mappings specified for the object to populate the object.
*/
public class InstantiationCopyPolicy extends AbstractCopyPolicy {
    public InstantiationCopyPolicy() {
        super;
    }

    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        return getDescriptor().getObjectBuilder().buildNewInstance();
    }

    public boolean buildsNewInstance() {
        return true;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "()";
    }
}

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1.1193 libvisual 0.4.0 16.el7
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Version 2.1, February 1999

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1.1194 dom4j 2.1.3

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
  jar/org/dom4j/tree/ElementQNameIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
  jar/org/dom4j/tree/ElementIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
  jar/org/dom4j/ElementHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
  jar/org/dom4j/CDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
  jar/org/dom4j/Document.java
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  jar/org/dom4j/IllegalAddException.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXEventRecorder.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DocumentResult.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXModifyElementHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/NodeComparator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/PerThreadSingleton.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMComment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/XMLErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/NonLazyElement.java
jar/org/dom4j/DocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ContentListFacade.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Visitor.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Node.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Attribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/swing/XMLTableModel.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Mode.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/NullAction.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Node.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DefaultProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DefaultXPath.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CharacterData.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/SimpleSingleton.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/NonLazyDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/DatatypeAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultEntity.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/STAXEventReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXContentHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/SingletonStrategy.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractDocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DocumentException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMNamespace.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultDocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXModifyException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMDocument.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/xpath/XPPReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/OutputFormat.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/NamedTypeResolver.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/SingleIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/RuleManager.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/InvalidSchemaException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/xpath/DefaultNamespaceContext.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/DatatypeElement.java
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  jar/org/dom4j/io/SAXReader.java
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1.1195 avalon-framework-impl 4.3

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THE BASIC LIBRARY FUNCTIONS

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

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* /opt/cola/permits/1137623501_1614109158.2/0/spring-expression-5-1-12-release-sources-1-jar/org/springframework/expression/spel/ast/VariableReference.java
* /opt/cola/permits/1137623501_1614109158.2/0/spring-expression-5-1-12-release-sources-1-jar/org/springframework/expression/spel/ast/LongLiteral.java
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jar/org/springframework/expression/MethodResolver.java
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jar/org/springframework/expression/ExpressionInvocationTargetException.java
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1.1207 python-iniparse 0.4

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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
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In May 2000, Guido and the Python core development team moved to
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1.1211 nfs-utils 1.3.0 0.54.el7

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3.17.0/google/protobuf/pyext/descriptor_database.h
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3.17.0/google/protobuf/pyext/message_factory.h

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Metadata-Version: 1.2
Name: protobuf
Version: 3.17.0
Summary: Protocol Buffers
Home-page: https://developers.google.com/protocol-buffers/
Maintainer: protobuf@googlegroups.com
Maintainer-email: protobuf@googlegroups.com
License: 3-Clause BSD License
Download-URL: https://github.com/protocolbuffers/protobuf/releases
Description: Protocol Buffers are Google's data interchange format
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
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Found in path(s):
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* /opt/cola/permits/1255501328_1642558374.33/0/protobuf-3-17-0-tar-gz/protobuf-
1.1217 dmidecode 3.0 5.el7

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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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*/

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{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL },
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{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
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{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
void X86EMU_trace_regs (void) {
    if (DEBUG_TRACE()) {
        x86emu_dump_regs();
        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
            x86emu_dump_xregs();
        } else {
            x86emu_dump_regs();
        }
    }
}

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void) {
     if (DEBUG_TRACE()) {
         x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
     }
 }
printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{

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+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\n");
+ switch (op2) {
+   case 0xc8:
+     M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+     break;
+   case 0xc9:
+     M.x86.R(ECX = x86emu_bswap(M.x86.R_ECX);
+     break;
+   case 0xca:
+     M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+     break;
+   case 0xcb:
+     M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+     break;
+   case 0xcc:
+     M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+     break;
+   case 0xcd:
+     M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+     break;
+   case 0xce:
+     M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+     break;
+   case 0xcf:
+     M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+     break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}

#ifndef -1702.14 +1763.14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
@@
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
/+/* 0xc8 */ x86emuOp2_bswap,
/+/* 0xc9 */ x86emuOp2_bswap,
/+/* 0xca */ x86emuOp2_bswap,
/+/* 0xcb */ x86emuOp2_bswap,
/+/* 0xcc */ x86emuOp2_bswap,
/+/* 0xcd */ x86emuOp2_bswap,
/+/* 0xce */ x86emuOp2_bswap,
/+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    if (cond) {
        M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R ECX : M.x86.R CX;
    M.x86.R CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    + if (M.x86.intr & INTR_HALTED)
        break;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.R_CX -= 1;
    }
}
else {

TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
            }
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
        M.x86.R_CX -= 1;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
}
break;

} else {
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) { /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
      + /* move them until (E)CX is ZERO. */
      + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) { /* move them until (E)CX is ZERO. */
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
          M.x86.R_ECX -= 1;
          else
            M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    + if (M.x86.intr & INTR_HALTED)
      break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

while (count--) {
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
  break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
        } else {
            break;
        }
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - count = M.x86.R_CX;
        + /* move them until (E)CX is ZERO. */
        + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {  
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
    + if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        

+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(M.x86.R_AL, val2);
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    +    M.x86.R_ECX -= 1;
    else
    +    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
    break;
    + if (M.x86.intr & INTR_HALTED)
    +    break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
   /* REPNE */
   - /* move them until CX is ZERO. */
   - while (M.x86.R_CX != 0) {
   + /* move them until (E)CX is ZERO. */
   + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
       val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
       cmp_byte(M.x86.R_AL, val2);
       - M.x86.R_CX -= 1;
       + if (M.x86.mode & SYSMODE_32BIT_REP)
       +    M.x86.R_ECX -= 1;
       else
       +    M.x86.R_CX -= 1;
       M.x86.R_DI += inc;
       if (ACCESS_FLAG(F_ZF))
       break;    /* zero flag set means equal */
       + if (M.x86.intr & INTR_HALTED)
       +    break;
   }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    @@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }

        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
@@ -2977,10 +3034,15 @@
            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }

        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
@@ -3238,9 +3300,9 @@
            imm = fetch_word_imm();
            DECODE_PRINTF("\%x\n", imm);
            RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
            TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETn");
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_CX -= 1;

else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+ ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
- if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ if (M.x86.R_CX != 0)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 and ZF */
M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:\", cs);
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
    case 4:     /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef  __HAS_LONG_LONG__
    -    s64 res = (s64)d * (s64)s;
    +    s64 res = (s64)(s32)d * (s64)(s32)s;
    *
    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
    @ @ .-2013,7 +2013,7 @@
    void mul_long(u32 s)
    {
    #ifdef  __HAS_LONG_LONG__
    -    u64 res = (u32)M.x86.R_EAX * (u32)s;
    +    u64 res = (u64)M.x86.R_EAX * s;
    *
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    @ @ .-2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* dont care whether REPE or REPNE */
    -    /* in until CX is ZERO. */
    -    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
    +    /* in until (E)CX is ZERO. */
    +    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    M.x86.R_ECX : M.x86.R_CX);
    -    while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
}

if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
DB(if (DEBUG_IO_TRACE())
printk("inb %#04x \n", addr);
- return inb(addr);
+ return 0;
}

/***************************************************************************/
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
printk("inw %#04x \n", addr);
- return inw(addr);
+ return 0;
}

/***************************************************************************/
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
printk("inl %#04x \n", addr);
- return inl(addr);
+ return 0;
}

/***************************************************************************/
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
printk("outb %#02x -> %#04x \n", val, addr);
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
printk("outw %#04x -> %#04x \n", val, addr);
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@

 DB(if (DEBUG_IO_TRACE())
 printk("outl %#08x -> %#04x \n", val, addr);
- outl(val, addr);
 return;
}
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

/* checks to be enabled for "runtime" */
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
#define DEBUG_TRACEJMP()       0
#define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0

x86emu_dump_regs();                                     
if (DEBUG_TRACECALL())                                     	|
printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)
   \ 
+# define RETURN_TRACE(u,v,w,x,s)
   \ 
if (DEBUG_TRACECALLREGS())
   \
   x86emu_dump_regs();
   \ 
if (DEBUG_TRACECALL())
   \
   -printk("%04x:%04x: %s
",u,v,n);
   \ 
+printf("%04x:%04x: RET %s %04x:%04x
",u,v,s,w,x);
   \ 
+# define  JMP_TRACE(u,v,w,x,s)
   +
   +if (DEBUG_TRACEJMPREGS())
   +  x86emu_dump_regs();
   +
   +  if (DEBUG_TRACEJMP())
   +  printk("%04x:%04x: JMP %s%04x:%04x
", u , v, s, w, x);
   +
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file:/cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
   SYSMODE_SEGOVR_GS      | \
   SYSMODE_SEGOVR_SS      | \
   SYSMODE_PREFIX_DATA    | \
-\t					 SYSMODE_PREFIX_ADDR)
+\t					 SYSMODE_PREFIX_ADDR    | \
+\t					 SYSMODE_32BIT_REP)
#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2

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```c
/*
   u32 mode;
   volatile int intr; /* mask of pending interrupts */
-int debug;
 + volatile int debug;
#endif DEBUG
-int check;
 + int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/x86emu.h	19 Oct 2007 08:42:15 -0000	1.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
#else
+    #include <stdio.h>
+    #define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
    #ifdef __cplusplus
    }
    /* End of "C" linkage for C++ */
#endif
-#endif /* __X86EMU_X86EMU_H */
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```
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/**
 * A [link WebApplicationContext] that can be used to bootstrap itself from a contained
 * [link ServletWebServerFactory] bean.
 * <p>
 * This context will create, initialize and run an [link WebServer] by searching for a
 * single [link ServletWebServerFactory] bean within the [link ApplicationContext]
 * itself. The [link ServletWebServerFactory] is free to use standard Spring concepts
 * (such as dependency injection, lifecycle callbacks and property placeholder variables).
 * <p>
 * In addition, any [link Servlet] or [link Filter] beans defined in the context will be
 * automatically registered with the web server. In the case of a single Servlet bean, the
 * '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
 * name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
 * always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
 * <p>
 * For more advanced configuration, the context can instead define beans that implement
 * the [link ServletContextInitializer] interface (most often
 * [link ServletRegistrationBean]s and/or [link FilterRegistrationBean]s). To prevent
 * double registration, the use of [link ServletContextInitializer] beans will disable
 * automatic Servlet and Filter bean registration.
 * <p>
 * Although this context can be used directly, most developers should consider using the
 * [link AnnotationConfigServletWebServerApplicationContext] or
 * [link XmlServletWebServerApplicationContext] variants.
 */

* @author Phillip Webb
* @author Dave Syer
* @since 2.0.0
* @see AnnotationConfigServletWebServerApplicationContext  
* @see XmlServletWebServerApplicationContext  
* @see ServletWebServerFactory  
*/

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1.1249 cyrus-sasl 2.1.26 23.el7

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1.1255 graceful-fs 4.1.6

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

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

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

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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1.1260 csv-parse 0.0.9
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1.1261 uid-number 0.0.6

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1.1262 jbossinterceptorsapi 1.0.0.Beta1

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1.1270 openstack4j-core 3.6
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```java
public DomainBuilder domain();

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* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-jar/org/openstack4j/model/identity/v3/builder/IdentityV3Builders.java

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public DomainBuilder toBuilder() {
public DomainConcreteBuilder() {
public Domain build() {
public DomainBuilder from(Domain in) {
public DomainBuilder id(String id) {
public DomainBuilder description(String description) {
public DomainBuilder name(String name) {
public DomainBuilder options(Map<String, String> options) {
public DomainBuilder links(Map<String, String> links) {
public DomainBuilder enabled(boolean enabled) {

Found in path(s):
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-jar/org/openstack4j/openstack/identity/v3/domain/KeystoneDomain.java
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public Domain getDomain() {

Found in path(s):
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-jar/org/openstack4j/openstack/identity/v3/domain/KeystoneProject.java
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-jar/org/openstack4j/openstack/identity/v3/domain/KeystoneUser.java
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*/

public DomainEntry createPublic(String domainName, String project) {
    public DomainEntry createPrivate(String domainName, String availabilityZone) {

    public DomainBuilder domain() {

    found in path(s):
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-
  jar/org/openstack4j/model/heat/ResourceHealth.java
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-
  jar/org/openstack4j/openstack/heat/domain/HeatResourceHealth.java
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-
  jar/org/openstack4j/openstack/identity/v3/builder/KeystoneV3Builders.java

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public Domain getDomain() {
public Domain getDomain() {
public Domain getDomain() {

Found in path(s):
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-jar/org/openstack4j/openstack/identity/v3/domain/KeystoneAuth.java
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public DomainService domains() {

Found in path(s):
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-jar/org/openstack4j/openstack/identity/v3/internal/IdentityServiceImpl.java
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package org.openstack4j.openstack.identity.v3.internal;

import static com.google.common.base.Preconditions.checkNotNull;
import static org.openstack4j.core.transport.ClientConstants.PATH_DOMAINS;
import java.util.List;
import org.openstack4j.api.identity.v3.DomainService;
import org.openstack4j.model.common.ActionResponse;
import org.openstack4j.model.identity.v3.Domain;
import org.openstack4j.openstack.identity.v3.domain.KeystoneDomain;

public class DomainServiceImpl extends BaseIdentityServices implements DomainService {

@Override
public Domain create(Domain domain) {
    checkNotNull(domain);
    return post(KeystoneDomain.class, PATH_DOMAINS).entity(domain).execute();
}

@Override
public Domain create(String name, String description, boolean enabled) {
    checkNotNull(name);
    checkNotNull(description);
    checkNotNull(enabled);
    return create(KeystoneDomain.builder().name(name).description(description).enabled(enabled).build());
}

@Override
public Domain update(Domain domain) {
    checkNotNull(domain);
    return patch(KeystoneDomain.class, PATH_DOMAINS, "/", domain.getId()).entity(domain).execute();
}

@Override
public Domain get(String domainId) {
    checkNotNull(domainId);
    return get(KeystoneDomain.class, PATH_DOMAINS, "/", domainId).execute();
}

@Override
public List<? extends Domain> getByName(String domainName) {
    checkNotNull(domainName);
    return get(Domains.class, uri(PATH_DOMAINS)).param("name", domainName).execute().getList();
}

@Override
public ActionResponse delete(String domainId) {
    checkNotNull(domainId);
    return deleteWithResponse(PATH_DOMAINS, "/", domainId).execute();
}

@Override
public List<? extends Domain> list() {
    return get(Domains.class, uri(PATH_DOMAINS)).execute().getList();
}

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 *
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 *
 * @author nanderson
 */

Found in path(s):
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 *
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Found in path(s):
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-jar/org/openstack4j/openstack/identity/v3/internal/DomainServiceImpl.java
No license file was found, but licenses were detected in source scan.
public Domain getUserDomain(String userId) {

Found in path(s):
* /opt/cola/permits/1266269345_1644001026.06/0/openstack4j-core-3-6-sources-
jar/org/openstack4j/openstack/identity/v3/internal/UserServiceImpl.java

1.1271 combined-stream 1.0.5

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1.1272 nss 0.16.0-3.el7

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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```go
package engine
import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {

cases := []struct {
    context formatter.Context
    expected string
```
// Errors
{
formatter.Context{Format: "{{InvalidFunction}}"},
'Template parsing error: template: :1: function "InvalidFunction" not defined
,
},
formatter.Context{Format: "{{nil}}"},
'Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
,
},
// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
`NUM     OWNER     PRODUCT ID     EXPIRES                PRICING COMPONENTS
1        owner1   productid1   2020-01-01 10:00:00 +0000 UTC  compstring
2        owner2   productid2   2020-01-01 10:00:00 +0000 UTC  compstring
`,`
},
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,`
},
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`,
},
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
`,
},
// Raw Format
{
'license: id1
name: name1
owner: owner1
components: compstring
license: id2
name: name2
owner: owner2
components: compstring


expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num:   1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID:        "id1",
        Name:      "name1",
        ProductID: "productid1",
        Expires:   &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
            Name:  "nodes",
            Value: 10,
          },
          
        },
        ComponentsString: "compstring",
      },
      
      Num: 2,
      Owner: "owner2",
      Subscription: model.Subscription{
        ID:        "id2",
        Name:      "name2",
        ProductID: "productid2",
        Expires:   &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
            Name:  "nodes",
            Value: 10,
          },
        },
        ComponentsString: "compstring",
      },
    },
  }


Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
  },
  },
ComponentsString: "compstring",
}
}
out := &bytes.Buffer{
}
testcase.context.Output = out
er := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
  assert.Error(t, err, testcase.expected)
} else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
  expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num:  1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID:    "id1",
        Name:  "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 10,
          },
        },
        ComponentsString: "compstring",
      },
    },
    {
      Num:  2,
      Owner: "owner2",
      Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
  &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
  },
},
ComponentsString: "compstring",
}
}
expectedJSONs := []map[string]interface{}{
  {
    "Owner": "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Start": nil,
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{
      map[string]interface{}{
        "name": "nodes",
        "value": float64(10),
      },
    },
    "ProductID": "productid1",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
  },
  {
    "Owner": "owner2",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id2",
    "Start": nil,
    "Name": "name2",
    "Num": float64(2),
    "PricingComponents": []interface{}{
      map[string]interface{}{
        "name": "nodes",
        "value": float64(20),
      },
    },
    "ProductID": "productid2",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
  },
}

Open Source Used In NFVIS Branch Virtualization 4.8.1 9623
map[string]interface{}{
  "name": "nodes",
  "value": float64(20),
},

"ProductID": "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name2
Quantity: 20 nodes
Expiration date: 2020-01-01",
}

out := &bytes.Buffer{
  err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
  if err != nil {
    t.Fatal(err)
  }
  for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
      t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
  }
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
  }
  out := &bytes.Buffer{
    if err != nil {
      t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
      var s string
      if err := json.Unmarshal([]byte(line), &s); err != nil {
        t.Fatal(err)
      }
      assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
  }
  
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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)
license := new(model.IssuedLicense)
if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
    return nil, err
}
return license, nil

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]
    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }
}
payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

er := json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"`
    Token       string    `json:"token"`
    MaxEngines  int       `json:"maxEngines"`
    ScanningEnabled bool    `json:"scanningEnabled"`
    Type        string    `json:"licenseType"`
    Tier        string    `json:"tier"`
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID       string `json:"key_id"`
    PrivateKey  string `json:"private_key""
Authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}

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package engine

import (  
  "time"

  "github.com/docker/cli/cli/command/formatter"
  "github.com/docker/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
)

const (  
  defaultSubscriptionsTableFormat = "table
  {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
  defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
  numHeader               = "NUM"
  ownerHeader             = "OWNER"
  licenseNameHeader       = "NAME"
  idHeader                = "ID"
  dockerIDHeader          = "DOCKER ID"
  productIDHeader         = "PRODUCT ID"
  productRatePlanHeader   = "PRODUCT RATE PLAN"
  productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
  startHeader             = "START"
  expiresHeader           = "EXPIRES"
  stateHeader             = "STATE"
eusaHeader = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
            name: {{.Name}}
            owner: {{.Owner}}
            components: {{.ComponentsString}}
        `}
    }
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
        Header: map[string]string{
            "Num": numHeader,
            "Owner": ownerHeader,
            "Name": licenseNameHeader,
            "ID": idHeader,
            "DockerID": dockerIDHeader,
            "ProductID": productIdHeader,
            "ProductRatePlan": productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start": startTimeHeader,
            "Expires": expiresHeader,
            "State": stateHeader,
            "Eusa": eusaHeader,
            "ComponentsString": pricingComponentsHeader,
        }
    }
    // Other code continues here...
return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
  formatter.HeaderContext
  trunc bool
  l      licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
  return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
  return c.l.Num
}

func (c *licenseContext) Owner() string {
  return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
  return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
  return c.l.String()
}

func (c *licenseContext) Name() string {
  return c.l.Name
}

func (c *licenseContext) ID() string {
  return c.l.ID
}

func (c *licenseContext) DockerID() string {
  return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
  return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
  return c.l.ProductRatePlan
}
func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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1.1292 finalhandler 0.2.0

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@item
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@enumerate
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@end subheading END OF TERMS AND CONDITIONS

@page
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1.1305 model 2.5.0

1.1306 methods 1.1.2

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1.1311 jackson-datatype-jsr310 2.10.4

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 */
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

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* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-
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*/
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 * @return a boolean that says whether this content has been compacted for UPA
 */

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* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-
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  jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-
  jar/org/apache/xerces/impl/xmls/events/ProcessingInstructionImpl.java
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-
  jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-
  jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-
  jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-
jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /opt/cola/permits/110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/html/dom/HTMLBaseElementImpl.java
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* /opt/cola/permits/110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/xinclude/XIncludeHandler.java
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* /opt/cola/permits/110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/xni/XMLDtdContentModelHandler.java
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* /opt/cola/permits/110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/xinclude/Include.java
* /opt/cola/permits/110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/xinclude/XIncludeImpl.java
* /opt/cola/permits/110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/xinclude/IncludeType.java
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* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
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* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/dom3/as/ASModel.java
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* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java

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* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
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jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
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jar/org/apache/xerces/impl/xpath/regex/message.properties
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/*
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode The <code>mode</code> argument is either
 * <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 * <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 * <code>LSParser</code> that is created will operate in synchronous
 * mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 * <code>LSParser</code> that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema
 * language used during the load of a <code>Document</code> using the
 * newly created <code>LSParser</code>. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * <code>LSParser</code> for any kind of schema types (i.e. the
 * LSParser will be free to use any schema found), use the value
 * <code>null</code>.
 * <p>Note: For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-20010502'>XML Schema Part 1</a>]
 * , applications must use the value
 * <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
* applications must use the value
* `<code>"http://www.w3.org/TR/REC-xml"</code> . Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* `@return` The newly created `<code>LSParser</code>` object. This
* `<code>LSParser</code>` is either synchronous or asynchronous
* depending on the value of the `<code>mode</code>` argument.
* `<p>` Note: By default, the newly created `<code>LSParser</code>`
* does not contain a `<code>DOMErrorHandler</code>` , i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>
* error-handler</a>" configuration parameter is `<code>null</code>`. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the `<code>error-handler</code>` configuration
* parameter on the new created `<code>LSParser</code>` contains a
* reference to the default error handler.
* `<exception` DOMException
* ` NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
* */

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* `/opt/cola/permits/1110923106_1606873023.09/0/xercesimpl-2-11-0-sources-1-
jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`

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**1.1313 tar 1.2.11**

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Manifest-Version: 1.0
Bnd-LastModified: 1535387016033
Build-Jdk: 1.8.0_181
Built-By: somov
Bundle-Description: YAML 1.1 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: SnakeYAML
Bundle-SymbolicName: org.yaml.snakeyaml
Bundle-Version: 1.23.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.yaml.snakeyaml;version="1.23",org.yaml.snakeyaml.composer;version="1.23",org.yaml.snakeyaml.constructor;version="1.23",org.yaml.snakeyaml.emitter;version="1.23",org.yaml.snakeyaml.error;version="1.23",org.yaml.snakeyaml.events;version="1.23",org.yaml.snakeyaml.extensions.compactnotation;version="1.23",org.yaml.snakeyaml.introspector;version="1.23",org.yaml.snakeyaml.nodes;version="1.23",org.yaml.snakeyaml.parser;version="1.23",org.yaml.snakeyaml.reader;version="1.23",org.yaml.snakeyaml.representer;version="1.23",org.yaml.snakeyaml.resolver;version="1.23",org.yaml.snakeyaml.scanner;version="1.23",org.yaml.snakeyaml.serializer;version="1.23",org.yaml.snakeyaml.tokens;version="1.23",org.yaml.snakeyaml.util;version="1.23"
Import-Package: org.yaml.snakeyaml;version="[1.23,2)",org.yaml.snakeyaml.composer;version="[1.23,2)",org.yaml.snakeyaml.emitter;version="[1.23,2)",org.yaml.snakeyaml.error;version="[1.23,2)",org.yaml.snakeyaml.events;version="[1.23,2)",org.yaml.snakeyaml.introspector;version="[1.23,2)",org.yaml.snakeyaml.nodes;version="[1.23,2)",org.yaml.snakeyaml.parser;version="[1.23,2)",org.yaml.snakeyaml.reader;version="[1.23,2)",org.yaml.snakeyaml.resolver;version="[1.23,2)",org.yaml.snakeyaml.scanner;version="[1.23,2)",org.yaml.snakeyaml.serializer;version="[1.23,2)",org.yaml.snakeyaml.tokens;version="[1.23,2)"
1.1316 npm-cache-filename 1.0.2
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1.jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1.jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonPrimitive.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonObject.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/JsonAdapterAnnotationTypeAdapterFactory.java
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  jar/com/google/gson/stream/JsonToken.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java
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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 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
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directing the user to the copy of this License. Also, you must do one
of these things:

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

   b) 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
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use both them and the Library together in an executable that you
distribute.

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END OF TERMS AND CONDITIONS

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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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1.1326 debug 2.2.0

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BuiltinAtomicType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/RegularExpression.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/regexp/REUtil.java
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  jar/com/sun/msv/datatype/xsd/Messages.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
  jar/com/sun/msv/datatype/xsd/Messages_ja.properties

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Version 2, June 1991
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import io, sys
from setuptools import setup
version = "2.4"

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
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            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2.6',
            'Programming Language :: Python :: 2.7',
        ]
    }
```

```
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities','
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgo/idna-2.4/setup.py
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* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/config/annotation/AsyncSupportConfigurer.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/handler/AbstractUrlHandlerMapping.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/function/PathResourceLookupFunction.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/mvc/method/annotation/ViewMethodReturnValueHandler.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/mvc/condition/AbstractRequestCondition.java
* /opt/cola/permits/113675382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/resource/PathResourceResolver.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/function/DefaultServerRequestBuilder.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/function/RequestPredicate.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/function/ServerResponseExtensions.kt
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2.jar/org/springframework/web/servlet/function/DefaultServerResponseBuilder.java

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/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
* *
* Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
* *
* View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}.  
* 
* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/support/SessionFlashMapManager.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
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  jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-
  jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java

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  jar/org/springframework/web/servlet/ViewResolver.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-
  jar/org/springframework/web/servlet/support/BindStatus.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-
  jar/org/springframework/web/servlet/tags/MessageTag.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-
  jar/org/springframework/web/servlet/view/xml/MarshallingView.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-
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* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-
  jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-
  jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestMethodArgumentResolver.java
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/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
* <p>The XSLT Source object is supplied as a parameter in the model and then
* a specific entry in the model via the setSourceKey property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See getSourceType() here
* for more details.
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure setOutputProperties output properties
* to be passed to the Transformer.
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
*/

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  jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java
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  jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
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* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
* /opt/cola/permits/1136375382_1613752614.37/0/spring-webmvc-5-2-6-release-sources-2-jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java

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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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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

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

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

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

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

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```

Asynchronous socket services

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```
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---

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Cookie management

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

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

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

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SipHash24
--------

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (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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-------

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-----

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-----

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----

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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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<th>Who</th>
<th>What</th>
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<td>dl</td>
<td>use barrierLock</td>
</tr>
<tr>
<td>12jan2001</td>
<td>dl</td>
<td>public release</td>
</tr>
<tr>
<td>17nov2001</td>
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<td>09dec2002</td>
<td>dl</td>
<td>Fix interference checks.</td>
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// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
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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
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linked with it, is called a "work that uses the Library". Such a
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