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Contents

1.1 spring-framework 3.2.17
   1.1.1 Available under license

1.2 tiny-emitter 1.2.0
   1.2.1 Available under license

1.3 not-going-to-be-commons-ssl 0.3.20
   1.3.1 Available under license

1.4 parse 5.1.1
   1.4.1 Available under license

1.5 txw2 2.3.2
   1.5.1 Available under license

1.6 jsr305 3.0.2
   1.6.1 Available under license

1.7 spring-cloud-starter-consul-discovery 2.2.0

1.8 core-util-is 1.0.2
   1.8.1 Available under license

1.9 commons-configuration 1.10
   1.9.1 Available under license

1.10 xmlgraphics-commons 2.3
   1.10.1 Available under license

1.11 hibernate-validator 6.0.18
   1.11.1 Available under license

1.12 grep 2.27 2
   1.12.1 Available under license

1.13 jetty-security 9.4.24.v20191120
   1.13.1 Available under license

1.14 brave-instrumentation-jms 5.9.0
1.14.1 Available under license
1.15 base-files 9.9+deb9u11
   1.15.1 Available under license
1.16 spring-test 5.2.2
1.17 create-hmac 1.1.7
   1.17.1 Available under license
1.18 bootstrap-select 1.7.5
   1.18.1 Available under license
1.19 c-ares 1.12.0
   1.19.1 Available under license
1.20 speedtest-cli 1.0.0
   1.20.1 Available under license
1.21 netflix-statistics 0.1.1
1.22 xtuc ieee754 1.2.0
   1.22.1 Available under license
1.23 lombok 1.18.6
   1.23.1 Available under license
1.24 spring-boot-starter-jetty 2.2.2
1.25 spring-boot-starter-validation 2.2.2
1.26 node-libs-browser 2.2.1
   1.26.1 Available under license
1.27 zone v0.9.1
   1.27.1 Available under license
1.28 net-tools 1.60-26
   1.28.1 Available under license
1.29 libnl 3.4.0 1.0
   1.29.1 Available under license
1.30 opkg-utils 0.3.6
   1.30.1 Available under license
1.31 python-jsonpatch 1.23
   1.31.1 Available under license
1.32 log-rotate 3.13.0
   1.32.1 Available under license
1.33 brave-instrumentation-spring-web 5.9.0
1.34 nss 3.26.2 1.1+deb9u1
   1.34.1 Available under license
1.35 web-toolkit 3.5.0
   1.35.1 Available under license
1.36 angular-moment 0.10.3
1.36.1 Available under license
1.37 pam-tacplus 1.3.8
   1.37.1 Available under license
1.38 paramiko 1.15.2
   1.38.1 Available under license
1.39 mapstruct 1.2.0
   1.39.1 Available under license
1.40 spring-instrument 5.2.2
1.41 brave-instrumentation-rpc 5.9.0
   1.41.1 Available under license
1.42 kafka-clients 2.3.1
   1.42.1 Available under license
1.43 spring-data-commons 2.2.3
   1.43.1 Available under license
1.44 netflix-commons-util 0.3.0
1.45 spring-security-web 5.2.1
   1.45.1 Available under license
1.46 browserify-rsa 4.0.1
   1.46.1 Available under license
1.47 jboss-logging 3.4.1
   1.47.1 Available under license
1.48 enum34 1.1.6
   1.48.1 Available under license
1.49 open-ssl 1.1.0l 1~deb9u1
   1.49.1 Available under license
1.50 create-ecdh 4.0.3
   1.50.1 Available under license
1.51 ng-focus-if 1.0.7
   1.51.1 Available under license
1.52 acpid 2.0.28
   1.52.1 Available under license
1.53 desjs 1.0.0
   1.53.1 Available under license
1.54 kryo-shaded 4.0.2
1.55 amzn-drivers-ena 1.5.0
   1.55.1 Available under license
1.56 findutils 4.6.0+git+20161106 2
   1.56.1 Available under license
1.57 netty-transport 4.1.43
1.58 spring-boot-actuator-autoconfigure 2.2.2
1.59 sysv-init 2.88dsf 59.9
   1.59.1 Available under license
1.60 spring-context-support 5.2.2
1.61 xml-apis-ext 1.3.04
   1.61.1 Available under license
1.62 jffi 1.2.16
1.63 swagger 1.5.22
   1.63.1 Available under license
1.64 spring-cloud-starter-sleuth 2.2.0
1.65 brave-instrumentation-kafka-streams 5.9.0
   1.65.1 Available under license
1.66 spring-cloud-stream-binder-kafka-core 3.0.0
1.67 jetty-annotations 9.4.24.v20191120
   1.67.1 Available under license
1.68 commons-fileupload 1.3.3
   1.68.1 Available under license
1.69 core-js 3.0.0
   1.69.1 Available under license
1.70 spring-cloud-vault-config 2.2.0
   1.70.1 Available under license
1.71 feign-form 3.5.0
1.72 spring-messaging 5.2.2
1.73 libxrender 0.9.10-1
   1.73.1 Available under license
1.74 u-boot 2013.07
   1.74.1 Available under license
1.75 bind 9.11.8
   1.75.1 Available under license
1.76 blob 0.0.5
   1.76.1 Available under license
1.77 ustr 1.0.4 6
   1.77.1 Available under license
1.78 libxau 1.0.8 1
   1.78.1 Available under license
1.79 parseuri 0.0.5
   1.79.1 Available under license
1.80 nspr 4.12 6
   1.80.1 Available under license
1.81 jetty-xml 9.4.24.v20191120
   1.81.1 Available under license
1.82 libidn 1.33 1
   1.82.1 Available under license
1.83 dhcp 4.4.1 r0
   1.83.1 Available under license
1.84 wireless-tools 30.pre9 r0.0
   1.84.1 Available under license
1.85 asm-analysis 7.1
1.86 sbsigntool 0.6-951ee95a301674c046f55330cd7460e1314deff2
0ubuntu4~12.04.1
   1.86.1 Available under license
1.87 jnr-ffi 2.1.7
1.88 mx4j 3.0.2
   1.88.1 Notifications
   1.88.2 Available under license
1.89 keymaps 1.0
   1.89.1 Available under license
1.90 pciutils 3.5.6
   1.90.1 Available under license
1.91 bind 9.11.4
   1.91.1 Available under license
1.92 zlib 1.2.11
   1.92.1 Available under license
1.93 jctools-core 2.1.1
1.94 after 0.8.2
   1.94.1 Available under license
1.95 hystrix-core 1.5.18
1.96 strongswan 5.6.3 1ubuntu2
   1.96.1 Available under license
1.97 ndisc 1.0.4+git4c794b5512d23c649def1f94a684225dcbcb6ac3e
   1.97.1 Available under license
1.98 ixgbevf 3.1.2
   1.98.1 Available under license
1.99 python 2.7.14
   1.99.1 Available under license
1.100 netty-resolver 4.1.43
   1.100.1 Available under license
1.101 spring cloud starter openfeign 2.2.0
1.102 libevent 2.1.8-stable
   1.102.1 Available under license
1.103 flask-restplus 0.10.0
   1.103.1 Available under license
1.104 file 5.32
   1.104.1 Available under license
1.105 spring cloud netflix ribbon 2.2.0
1.106 certifi 2018.1.18
   1.106.1 Available under license
1.107 libcap-ng 0.7.7-3+b1
   1.107.1 Available under license
1.108 antisamy 1.5.8
1.109 setimmediate 1.0.5
   1.109.1 Available under license
1.110 insserv 1.14.0-5.4+b1
   1.110.1 Available under license
1.111 openssh 7.6p1
   1.111.1 Available under license
1.112 libsemanage 2.6-2
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1.113 libwebsockets 2.1.0
   1.113.1 Available under license
1.114 commons-lang 2.6
   1.114.1 Available under license
1.115 rx-netty 0.4.9
1.116 boost 1.66.0
   1.116.1 Available under license
1.117 bcprov-ext-jdk15on 1.62
1.118 python-requests 2.18.4
   1.118.1 Available under license
1.119 webassemblyjs-ieee754 1.7.11
   1.119.1 Available under license
1.120 hostname 3.18+b1
   1.120.1 Available under license
1.121 berkeley-db 5.3.28-12+deb9u1
   1.121.1 Available under license
1.122 d3js 3.5.17
   1.122.1 Available under license
1.123 readline 4.4 5
1.123.1 Available under license
1.124 lib-jpeg-turbo 1.5.1 2
    1.124.1 Available under license
1.125 ngstorage 0.3.11
    1.125.1 Available under license
1.126 libpcap 1.8.1
    1.126.1 Available under license
1.127 grub 2.02
    1.127.1 Available under license
1.128 rxjava 1.3.8
1.129 tzdata 2018d 1
    1.129.1 Available under license
1.130 batik-constants 1.11
    1.130.1 Available under license
1.131 commons-collections 4.2
    1.131.1 Available under license
1.132 reactive-streams 1.0.3
1.133 commons-lang 3.9
    1.133.1 Available under license
1.134 libmnl 1.0.4
    1.134.1 Available under license
1.135 html5-boilerplate 5.3.0
    1.135.1 Available under license
1.136 libxslt 1.1.29
    1.136.1 Available under license
1.137 angular-nvd3 1.0.9
    1.137.1 Available under license
1.138 asm 7.1
1.139 libbsd 0.8.3 1
    1.139.1 Available under license
1.140 uirouter angularjs 1.0.24
    1.140.1 Available under license
1.141 jnr-posix 3.0.44
1.142 kryo 4.0.2
1.143 websocket-api 9.4.24.v20191120
    1.143.1 Available under license
1.144 py-asn1 0.4.2
    1.144.1 Available under license
1.145 jackson-annotations 2.10.1
Open Source Used In MSX SD-WAN Service Pack 3.8.09

1.145.1 Available under license
1.146 ribbon-core 2.3.0
1.147 libsodium 1.0.16 1.el7
   1.147.1 Available under license
1.148 create-hash 1.2.0
   1.148.1 Available under license
1.149 jaxb-runtime 2.3.1
1.150 brave-instrumentation-htpasyncclient 5.9.0
1.151 asm 2010.02.05
   1.151.1 Available under license
1.152 spring-cloud-context 2.2.0
   1.152.1 Available under license
1.153 nvd3-js 1.8.6
   1.153.1 Available under license
1.154 libgpg-error 1.26-2
   1.154.1 Available under license
1.155 spring-vault-core 2.2.0
   1.155.1 Available under license
1.156 angular-forms 8.0.3
   1.156.1 Available under license
1.157 netty-codec 4.1.43
   1.157.1 Available under license
1.158 base64-arraybuffer 0.1.5
   1.158.1 Available under license
1.159 xmltooling 1.4.6
   1.159.1 Available under license
1.160 nettle 3.3 1+b2
   1.160.1 Available under license
1.161 vim 7.4
1.162 servo-core 0.12.21
1.163 lz4-java 1.6.0
1.164 delegate 3.2.0
   1.164.1 Available under license
1.165 ip-address 1.0.19
   1.165.1 Available under license
1.166 spring-cloud-starter-consul-config 2.2.0
1.167 zlib 1.2.8.dfsg 5
   1.167.1 Available under license
1.168 flatpickr 4.6.2
1.168.1 Available under license

1.169 libyaml 0.1.6
   1.169.1 Available under license

1.170 hdrhistogram 2.1.11

1.171 libcpuid 0.4.0
   1.171.1 Available under license

1.172 reflectasm 1.11.3
   1.172.1 Available under license

1.173 angularjs-nvd3-directives 0.0.8
   1.173.1 Available under license

1.174 regexp 2.7.2

1.175 pbkdf2 3.0.17
   1.175.1 Available under license

1.176 ion-rangeslider 2.0.13
   1.176.1 Available under license

1.177 minimalistic-crypto-utils 1.0.1

1.178 libxml 2.9.8
   1.178.1 Available under license

1.179 cassandra-lucene-index-builder 3.10.0

1.180 libxext 1.3.3 1+b2
   1.180.1 Available under license

1.181 lcms 2.8 4+deb9u1
   1.181.1 Available under license

1.182 ui-router-core 6.0.3
   1.182.1 Available under license

1.183 shadow-securetty 4.6

1.184 consul-api 1.4.1

1.185 spring-security-jwt 1.0.10

1.186 gmp 6.1.2+dfsg 1
   1.186.1 Available under license

1.187 ip-utils 2.4.0
   1.187.1 Available under license

1.188 pam 1.3.0
   1.188.1 Available under license

1.189 angular-socket-io 0.7.0
   1.189.1 Available under license

1.190 iperf 2.0.13
   1.190.1 Available under license

1.191 zipkin-sender-activemq-client 2.11.0
Open Source Used In MSX SD-WAN Service Pack 3.8.011

1.192 startpar 0.59-3.1
   1.192.1 Available under license

1.193 ngdragable 0.1.10
   1.193.1 Available under license

1.194 inherits 2.0.3

1.195 libxtst 1.2.3-1
   1.195.1 Available under license

1.196 p11-kit 0.23.3 2
   1.196.1 Available under license

1.197 angular-ui-bootstrap 1.3.3
   1.197.1 Available under license

1.198 kryo-serializers 0.45

1.199 libmpc 1.1.0
   1.199.1 Available under license

1.200 attr 2.4.47 2+b2
   1.200.1 Available under license

1.201 wget 1.19.5
   1.201.1 Available under license

1.202 httpcomponents-core 4.4.12
   1.202.1 Available under license

1.203 radvd 1:2.11-1
   1.203.1 Available under license

1.204 slang 2.3.2
   1.204.1 Available under license

1.205 spring-integration-jmx 5.2.2

1.206 websocket-client 9.4.24.v20191120
   1.206.1 Available under license

1.207 spring-boot-starter-actuator 2.2.2

1.208 ecdsa 0.13
   1.208.1 Available under license

1.209 brave-instrumentation-spring-webmvc 5.9.0
   1.209.1 Available under license

1.210 micrometer-core 1.3.1
   1.210.1 Available under license

1.211 springfox-spring-web 2.9.2

1.212 spring-cloud-stream-binder-kafka 3.0.0

1.213 d3-tip 0.6.8
   1.213.1 Available under license

1.214 brave-instrumentation-spring-rabbit 5.9.0
1.214.1 Available under license
1.215 libmpc 1.1.0 1.0
1.215.1 Available under license
1.216 bouncy-castle 1.62
1.217 he 1.1.7
1.217.1 Available under license
1.218 gmp 6.1.2
1.218.1 Available under license
1.219 chardet 3.0.4
1.219.1 Available under license
1.220 busybox 1.27.2
1.220.1 Available under license
1.221 zipkin-reporter-metrics-micrometer 2.11.0
1.222 brave-instrumentation-kafka-clients 5.9.0
1.223 snappy-java 1.1.7.1
1.224 jansson 2.9
1.224.1 Available under license
1.225 spring-security-rsa 1.0.7
1.226 tpm-tools 1.3.8 6.el7
1.226.1 Available under license
1.227 free-type 2.6.3 3.2
1.227.1 Available under license
1.228 procps 3.3.15
1.228.1 Available under license
1.229 batik-css 1.11
1.229.1 Available under license
1.230 acl 2.2.52 3+b1
1.230.1 Available under license
1.231 springfoxswagger 2.9.2
1.232 isc-dhcp 4.4.1
1.232.1 Available under license
1.233 python-requests 2.18.4-r0
1.233.1 Available under license
1.234 tslib 1.10.0
1.234.1 Available under license
1.235 parse-asn1 5.1.4
1.235.1 Available under license
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<td>Available under license</td>
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<td>miller-rabin 4.0.1</td>
<td>Available under license</td>
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<td>1.243</td>
<td>pppoe 3.11</td>
<td>Available under license</td>
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<td>Available under license</td>
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<td>Available under license</td>
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1.262 jetty-http 9.4.24.v20191120
   1.262.1 Available under license
1.263 diffutils 3.5-3
   1.263.1 Available under license
1.264 trousers 0.3.13
   1.264.1 Available under license
1.265 archaius-core 0.7.6
1.266 libgcrypt 1.7.6 2+deb9u3
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1.267 prettytable 0.7.2
   1.267.1 Available under license
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   1.268.1 Available under license
1.269 socket-io-client 2.2.0
   1.269.1 Available under license
1.270 types-jquery 3.3.31
   1.270.1 Available under license
1.271 sensible-utils 0.0.9+deb9u1
   1.271.1 Available under license
1.272 iperf 3.5
   1.272.1 Available under license
1.273 byte-buddy 1.10.4
   1.273.1 Available under license
1.274 spring-cloud-sleuth-zipkin 2.2.0
1.275 pcsc-lite 1.8.20 1
   1.275.1 Available under license
1.276 spring cloud netflix archaius 2.2.0
1.277 python-pip 9.0.3
   1.277.1 Available under license
1.278 perl 5.24.1 3+deb9u5
   1.278.1 Available under license
1.279 fdisk 2.29.2-1+deb9u1
   1.279.1 Available under license
1.280 spring-cloud-starter-netflix-archaius 2.2.0
1.281 gcc 8.2.0
1.281.1 Available under license
1.282 python-pbr 3.1.1 2.el7ost
   1.282.1 Available under license
1.283 velocity-engine-core 2.0
   1.283.1 Available under license
1.284 glibc 2.27
   1.284.1 Available under license
1.285 model-mapper 2.3.0
1.286 bash 4.4.12
   1.286.1 Available under license
1.287 angular-common 8.0.3
   1.287.1 Available under license
1.288 lo-dash 4.17.11
   1.288.1 Available under license
1.289 kexec-tools 2.0.16
   1.289.1 Available under license
1.290 commons-io 2.6
   1.290.1 Available under license
1.291 bc 1.06
   1.291.1 Available under license
1.292 cloud-init 0.7.6
   1.292.1 Available under license
1.293 babel-polyfilljs 6.26.0
   1.293.1 Available under license
1.294 ns popover 0.6.8
   1.294.1 Available under license
1.295 traceroute 2.0.21
   1.295.1 Available under license
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   1.296.1 Available under license
1.297 ucf 3.0036
   1.297.1 Available under license
1.298 py-cparser 2.18
1.299 audit 2.6.7 2
   1.299.1 Available under license
1.300 angular-dashboard-framework 0.12.0
   1.300.1 Available under license
1.301 libcap 2.25
   1.301.1 Available under license
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   1.302.1 Available under license
1.303 openjdk-7-jre 11.0.5+10-1~bpo9+1
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1.306 bootstrap-twitter 4.3.1
   1.306.1 Available under license
1.307 python-pysocks 1.6.8 5.el7
   1.307.1 Available under license
1.308 spring-context 5.2.1
   1.308.1 Available under license
1.309 angular-compiler 8.0.3
   1.309.1 Available under license
1.310 readline 7.0
   1.310.1 Available under license
1.311 libxcb 1.12 1
   1.311.1 Available under license
1.312 timers-browserify 2.0.10
   1.312.1 Available under license
1.313 component-bind 1.0.0
   1.313.1 Available under license
1.314 checker-qual 2.0.0
   1.314.1 Available under license
1.315 javax-websocket-client-impl 9.4.24.v20191120
   1.315.1 Available under license
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File: src/main/java/org/apache/commons/ssl/ASN1Util.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file with no key entry. This happens with cacerts in Java 9+ because of the changes in JEP 229, because both JKS and PKCS12 files can now be loaded using either the JKS or PKCS12 keystore type.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/*

Changes: Replacing direct printStackTrace calls with Logger calls, remove logging "abstraction".

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

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Byte Buddy 1.8.8
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The license below pertains to Bouncy Castle Crypto, which is included with Not-Going-To-Be-Commons-SSL.

The PKCS12 key derivation function was also developed by Bouncy Castle (Look for the "pkcs12()" method inside PKCS8.java).

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1.11 hibernate-validator 6.0.18

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If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

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Version 3, 29 June 2007

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

    The hypothetical commands `show w' and `show c' should show the appropriate
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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1.29 libnl 3.4.0 1.0

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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.

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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
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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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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.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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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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1.30 opkg-utils 0.3.6

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1.34 nss 3.26.2 1.1+deb9u1
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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of Canonical and Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages.
across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners’ experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community: including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):
* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.
* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join
in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:
  2. Apply at point of distribution, instead of receipt
  3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
  4. Define "Propagate" (for internationalisation, similar to the GPLv3)
  5. Define "Substantially Changed"
  6. Trademarks are explicitly not transferred
  7. Refine renaming requirement

Streamlining:
8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

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 * */
package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 * @author Ben Alex
 */
public interface Permission extends Serializable {

// ~ Static fields/initializers

==================================================================================
===
char RESERVED_ON = '~';
char RESERVED_OFF = '.';
String THIRTY_TWO_RESERVED_OFF = "..............................";

// ~ Methods

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

/**
 * Returns the bits that represents the permission.
 * @return the bits that represent the permission
 */
int getMask();

/**
 * Returns a 32-character long bit pattern <code>String</code> representing this
 * permission.
 * @return the bits that represent the permission
 */
String getBitPattern();

// ~ Implementations

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

// ~ Methods

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

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

// ~ Implementations

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

// ~ Methods

==================================================================================
* denote a bit that is off (clear). Implementations may also elect to use
* [ @link #RESERVED_ON ] internally for computation purposes, although this method may
* not return any <code> String </code> containing [ @link #RESERVED_ON ].
* <p>
* The returned String must be 32 characters in length.
* 
* This method is only used for user interface and logging purposes. It is not used in
* any permission calculations. Therefore, duplication of characters within the output
* is permitted.
* 
* @return a 32-character bit pattern
* */
String getPattern();

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1.46 browserify-rsa 4.0.1

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1.47 jboss-logging 3.4.1

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1.48 enum34 1.1.6

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1.49 open-ssl 1.1.0l 1~deb9u1

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1.55 amzn-drivers-ena 1.5.0

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPLv2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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**OW2**

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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**Apache**

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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**MortBay**

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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**Mortbay**

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
Assorted

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1.69 core-js 3.0.0

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1.74 u-boot 2013.07

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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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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
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 */

/*! ile
 * 
ote
 * Notice to programmers: Do not use this code as an example of how to
 * use the ISC library to perform DNS lookups. Dig and Host both operate
 * on the request level, since they allow fine-tuning of output and are
 * intended as debugging tools. As a result, they perform many of the
 * functions which could be better handled using the dns Resolver
 * functions in most applications.
 */

#include <config.h>

#include <inttypes.h>
#include <stdbool.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <limits.h>
#include <errno.h>
#ifdef HAVE_LOCALE_H
#include <locale.h>
#endif

#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
#include <idn/result.h>
#include <idn/log.h>
#include <idn/resconf.h>
#include <idn/api.h>
#endif
#endif /* WITH_IDN_SUPPORT */

#include <dns/byaddr.h>
#ifdef DIG_SIGCHASE
#include <dns/callbacks.h>
#include <dns/dnssec.h>
#include <dns/ds.h>
#include <dns/master.h>
#include <dns/nsec.h>
#include <isc/random.h>
#include <ctype.h>
#endif
#include <dns/fixedname.h>
#include <dns/log.h>
#include <dns/message.h>
#include <dns/name.h>
#include <dns/rcode.h>
#include <dns/rdata.h>
#include <dns/rdataclass.h>
#include <dns/rdatastruct.h>
#include <dns/rdatatype.h>
#include <dns/result.h>
#include <dns/tsig.h>

#include <dst/dst.h>
#include <dst/result.h>

#include <isc/app.h>
#include <isc/base64.h>
#include <isc/entropy.h>
#include <isc/file.h>
#include <isc/hex.h>
#include <isc/lang.h>
#include <isc/log.h>
#include <isc/netaddr.h>
#include <isc/netdb.h>
#include <isc/parseint.h>
#include <isc/print.h>
#include <isc/random.h>
#include <isc/result.h>
#include <isc/safe.h>
#include <isc/serial.h>
#include <isc/sockaddr.h>
#include <isc/string.h>
#include <isc/task.h>
#include <isc/timer.h>
#include <isc/types.h>
#include <isc/util.h>
#include <pk11/site.h>
#include <isccfg/namedconf.h>
#include <lwres/lwres.h>
#include <lwres/net.h>
#include <bind9/getaddresses.h>
#include <dig/dig.h>
#if ! defined(NS_INADDRSZ)
define NS_INADDRSZ 4
#endif
#include <pk11/result.h>
#endif
#define NS_IN6ADDRSZ 16
static lwres_context_t *lwctx = NULL;
static lwres_conf_t *lwconf;

dig_lookuplist_t lookup_list;
dig_serverlist_t server_list;
dig_searchlistlist_t search_list;

bool
check_ra = false,
have_ipv4 = false,
have_ipv6 = false,
specified_source = false,
free_now = false,
cancel_now = false,
usesearch = false,
showsearch = false,
qr = false,
is_dst_up = false,
keep_open = false,
verbose = false;
in_port_t port = 53;
unsigned int timeout = 0;
unsigned int extrabytes;
isc_mem_t *mctx = NULL;
isc_log_t *lctx = NULL;
isc_taskmgr_t *taskmgr = NULL;
isc_task_t *global_task = NULL;
isc_timermgr_t *timermgr = NULL;
isc_socketmgr_t *socketmgr = NULL;
isc_sockaddr_t bind_address;
isc_sockaddr_t bind_any;
int sendcount = 0;
int recvcount = 0;
int sockcount = 0;
int ndots = -1;
int tries = 3;
int lookup_counter = 0;

static char servercookie[256];

#ifdef WITH_IDN_SUPPORT
static void idn_initialize(void);
static isc_result_t idn_locale_to_ace(const char *from,
char *to,
size_t tolen);
#endif /* WITH_IDN_SUPPORT */

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t idn_ace_to_locale(const char *from,
char *to,
size_t tolen);
static isc_result_t output_filter(isc_buffer_t *buffer,
unsigned int used_org,
bool absolute);
#define MAXDLEN 256
ifdef WITH_IDNKIT
int idnoptions = 0;
#endif
#endif /* WITH_IDN_OUT_SUPPORT */

isc_socket_t *keep = NULL;
isc_sockaddr_t keepaddr;

/*%
* Exit Codes:
*%
*\li 0   Everything went well, including things like NXDOMAIN
*\li 1   Usage error
*\li 7   Got too many RR's or Names
*\li 8   Couldn't open batch file
*\li 9   No reply from server
*\li 10  Internal error
*/
int exitcode = 0;
int fatalexit = 0;
char keynametext[MXNAME];
char keyfile[MXNAME] = "";
char keysecret[MXNAME] = "";
unsigned char cookie_secret[33];
unsigned char cookie[8];
dns_name_t *hmacname = NULL;
unsigned int digestbits = 0;
isc_buffer_t *namebuf = NULL;
dns_tsigkey_t *tsigkey = NULL;
bool validated = true;
isc_entropy_t *entp = NULL;
isc_mempool_t *commctx = NULL;
bool debugging = false;
bool debugtiming = false;
bool memdebugging = false;
char *progname = NULL;
isc_mutex_t lookup_lock;
dig_lookup_t *current_lookup = NULL;
#endif DIG_SIGCHASE

isc_result_t get_trusted_key(void);
dns_rdataset_t * sigchase_scanname(dns_rdatatype_t type,
    dns_rdatatype_t covers,
    bool *lookedup,
    dns_name_t *rdata_name);
dns_rdataset_t * chase_scanname_section(dns_message_t *msg,
    dns_name_t *name,
static void nameFromString(const char *str, dns_name_t *p_ret);
int inf_name(dns_name_t * name1, dns_name_t * name2);
isc_result_t removetmpkey(const char *file);
void clean_trustedkey(void);
isc_result_t insert_trustedkey(void *arg, dns_name_t *name,
      dns_rdataset_t *rdataset);
#if DIG_SIGCHASE_BU
isc_result_t getneededrr(dns_message_t *msg);
void sigchase_bottom_up(dns_message_t *msg);
void sigchase_bu(dns_message_t *msg);
#endif
#if DIG_SIGCHASE_TD
isc_result_t initialization(dns_name_t *name);
isc_result_t prepare_lookup(dns_name_t *name);
isc_result_t grandfather_pb_test(dns_name_t * zone_name,
      dns_rdataset_t *sigrdataset);
isc_result_t child_of_zone(dns_name_t *name,
      dns_name_t *zone_name,
      dns_name_t *child_name);
void sigchase_td(dns_message_t *msg);
#endif
char trustedkey[MXNAME] = "";

dns_rdataset_t *chase_rdataset = NULL;
dns_rdataset_t *chase_sigrdataset = NULL;
dns_rdataset_t *chase_dsrdataset = NULL;
dns_rdataset_t *chase_sigdsrdataset = NULL;
dns_rdataset_t *chase_keyrdataset = NULL;
dns_rdataset_t *chase_sigkeyrdataset = NULL;
dns_rdataset_t *chase_nsrdataset = NULL;
dns_name_t chase_name; /* the query name */
#endif
/*
   * the current name is the parent name when we follow delegation
   */
dns_name_t chase_current_name;
/*
   * the child name is used for delegation (NS DS responses in AUTHORITY section)
   */
dns_name_t chase_authority_name;
#endif
#if DIG_SIGCHASE_BU
dns_name_t chase_signame;
#endif
bool chase_siglookedup = false;
bool chase_keylookedup = false;
bool chase_sigkeylookedup = false;
bool chase_dslookedup = false;
bool chase_sigsdslookedup = false;
#if DIG_SIGCHASE_TD
bool chase_nslookedup = false;
bool chase_lookedup = false;
#endif
bool delegation_follow = false;
bool grandfather_pb = false;
bool have_response = false;
bool have_delegation_ns = false;
dns_message_t * error_message = NULL;
#endif
bool dsvalidating = false;
bool chase_name_dup = false;
ISC_LIST(dig_message_t) chase_message_list;
ISC_LIST(dig_message_t) chase_message_list2;

#define MAX_TRUSTED_KEY 5
typedef struct struct_trusted_key_list {
dst_key_t * key[MAX_TRUSTED_KEY];
int nb_tk;
} struct_tk_list;

struct_tk_list tk_list = { {NULL, NULL, NULL, NULL, NULL}, 0};
#endif
#define DIG_MAX_ADDRESSES 20

/*%
 * Apply and clear locks at the event level in global task.
 * Can I get rid of these using shutdown events?  XXX
 */
#define LOCK_LOOKUP {
  debug("lock_lookup %s:%d", __FILE__, __LINE__);
  check_result(isc_mutex_lock((&lookup_lock)), "isc_mutex_lock");
  debug("success");
}
#define UNLOCK_LOOKUP {
  debug("unlock_lookup %s:%d", __FILE__, __LINE__);
}
check_result(isc_mutex_unlock((&lookup_lock)),
   "isc_mutex_unlock");
}

/* dynamic callbacks */

#ifdef DIG_SIGCHASE
isc_result_t
(*dighost_printrdataset)(dns_name_t *owner_name, dns_rdataset_t *rdataset,
   isc_buffer_t *target);
#endif

isc_result_t
(*dighost_printmessage)(dig_query_t *query, dns_message_t *msg,
   bool headers);

void
(*dighost_received)(unsigned int bytes, isc_sockaddr_t *from, dig_query_t *query);

void
(*dighost_trying)(char *frm, dig_lookup_t *lookup);

void
(*dighost_shutdown)(void);

/* forward declarations */

static void
cancel_lookup(dig_lookup_t *lookup);

static void
recv_done(isc_task_t *task, isc_event_t *event);

static void
send_udp(dig_query_t *query);

static void
connect_timeout(isc_task_t *task, isc_event_t *event);

static void
launch_next_query(dig_query_t *query, bool include_question);

static void
check_next_lookup(dig_lookup_t *lookup);

static bool
next_origin(dig_lookup_t *oldlookup);
static void *
mem_alloc(void *arg, size_t size) {
return (isc_mem_get(arg, size));
}

static void
mem_free(void *arg, void *mem, size_t size) {
isc_mem_put(arg, mem, size);
}

char *
next_token(char **stringp, const char *delim) {
char *res;

do {
res = strsep(stringp, delim);
if (res == NULL)
break;
} while (*res == '\0');
return (res);
}

static int
count_dots(char *string) {
char *s;
int i = 0;

s = string;
while (*s != '\0') {
if (*s == '.
')
i++;
s++;
}
return (i);
}

static void
hex_dump(isc_buffer_t *b) {
unsigned int len, i;
isc_region_t r;

isc_buffer_usedregion(b, &r);

printf("%u bytes\n", r.length);
for (len = 0; len < r.length; len++) {
printf("%02x ", r.base[len]);
if (len % 16 == 15) {
puts(" \n", stdout);
}
for (i = len - 15; i <= len; i++) {
    if (r.base[i] >= '!' && r.base[i] <= '}')
        putchar(r.base[i]);
    else
        putchar('.');
} printf("\n");
}

if (len % 16 != 0) {
    for (i = len; (i % 16) != 0; i++)
        fputs("   ", stdout);
    fputs("         ", stdout);
    for (i = ((len>>4)<<4); i < len; i++) {
        if (r.base[i] >= '!' && r.base[i] <= '}
            putchar(r.base[i]);
        else
            putchar('.');
    } printf("\n");
}

/*%
 * Append 'len' bytes of 'text' at '*p', failing with
 * ISC_R_NOSPACE if that would advance p past 'end'.
 */
static isc_result_t
append(const char *text, size_t len, char **p, char *end) {
    if (*p + len > end)
        return (ISC_R_NOSPACE);
    memmove(*p, text, len);
    *p += len;
    return (ISC_R_SUCCESS);
}

static isc_result_t
reverse_octets(const char *in, char **p, char *end) {
    const char *dot = strchr(in, '.');
    size_t len;
    if (dot != NULL) {
        isc_result_t result;
        result = reverse_octets(dot + 1, p, end);
        if (result != ISC_R_SUCCESS)
            return (result);
        result = append('.', 1, p, end);
        if (result != ISC_R_SUCCESS)
            return (result);
    }
len = (int) (dot - in);
} else {
len = (int) strlen(in);
}
return (append(in, len, p, end));
}

isc_result_t
get_reverse(char *reverse, size_t len, char *value, bool ip6_int,
    bool strict)
{
    int r;
    isc_result_t result;
    isc_netaddr_t addr;

    addr.family = AF_INET6;
    r = inet_pton(AF_INET6, value, &addr.type.in6);
    if (r > 0) {
        /* This is a valid IPv6 address. */
        dns_fixedname_t fname;
        dns_name_t *name;
        unsigned int options = 0;

        if (ip6_int)
            options |= DNS_BYADDROPT_IPV6INT;
        name = dns_fixedname_initname(&fname);
        result = dns_byaddr_createptrname2(&addr, options, name);
        if (result != ISC_R_SUCCESS)
            return (result);
        dns_name_format(name, reverse, (unsigned int)len);
        return (ISC_R_SUCCESS);
    } else {
        /* Not a valid IPv6 address. Assume IPv4.
         * If 'strict' is not set, construct the
         * in-addr.arpa name by blindly reversing
         * octets whether or not they look like integers,
         * so that this can be used for RFC2317 names
         * and such.
         */
        char *p = reverse;
        char *end = reverse + len;
        if (strict &&
            inet_pton(AF_INET, value, &addr.type.in) != 1)
            return (DNS_R_BADDOTTEDQUAD);
        result = reverse_octets(value, &p, end);
        if (result != ISC_R_SUCCESS)
            return (result);
        /* Append .in-addr.arpa. and a terminating NUL. */
    }
result = append("\in-addr.arpa.", 15, &p, end);
if (result != ISC_R_SUCCESS)
    return (result);
return (ISC_R_SUCCESS);
}
}

void
fatal(const char *format, ...) {
    va_list args;

    fflush(stdout);
    fprintf(stderr, "%s: ", proname);
    va_start(args, format);
    vfprintf(stderr, format, args);
    va_end(args);
    fprintf(stderr, "\n");
    if (exitcode < 10)
        exitcode = 10;
    if (fatalexit != 0)
        exitcode = fatalexit;
    exit(exitcode);
}

void
default(const char *format, ...) {
    va_list args;

    va_list args;
    isc_time_t t;

    if (debugging) {
        fflush(stdout);
        if (debugtiming) {
            TIME_NOW(&t);
            fprintf(stderr, "\n%u.%06u: ", isc_time_seconds(&t),
                    isc_time_nanoseconds(&t) / 1000);
            va_start(args, format);
            vfprintf(stderr, format, args);
            va_end(args);
            fprintf(stderr, "\n");
            } else {
                va_start(args, format);
                vfprintf(stderr, format, args);
                va_end(args);
                fprintf(stderr, "\n");
            }
    }

    check_result(isc_result_t result, const char *msg) {
        if (result != ISC_R_SUCCESS) {
            fatal("%s: %s", msg, isc_result_totext(result));
        }
}
dig_server_t * make_server(const char *servname, const char *userarg) {
    dig_server_t *srv;

    REQUIRE(servname != NULL);

    debug("make_server(%s)", servname);
    srv = isc_mem_allocate(mctx, sizeof(struct dig_server));
    if (srv == NULL)
        fatal("memory allocation failure in %s:%d",
             FILE__, __LINE__);  
    strlcpy(srv->servername, servname, MXNAME);
    strlcpy(srv->userarg, userarg, MXNAME);
    ISC_LINK_INIT(srv, link);
    return (srv);
}

static int addr2af(int lwresaddrtype) {
    int af = 0;

    switch (lwresaddrtype) {
    case LWRES_ADDRTYPE_V4:
        af = AF_INET;
        break;

    case LWRES_ADDRTYPE_V6:
        af = AF_INET6;
        break;
    }

    return (af);
}

/*
 * Create a copy of the server list from the lwres configuration structure.
 * The dest list must have already had ISC_LIST_INIT applied.
 */
static void copy_server_list(lwres_conf_t *confdata, dig_serverlist_t *dest) {

}
dig_server_t *newsrv;
    sizeof("%4000000000")];
int af;
int i;

debug("copy_server_list()");
for (i = 0; i < confdata->nsnext; i++) {
    af = addr2af(confdata->nameservers[i].family);
    if (af == AF_INET && !have_ipv4)
        continue;
    if (af == AF_INET6 && !have_ipv6)
        continue;
    lwres_net_ntop(af, confdata->nameservers[i].address,
        tmp, sizeof(tmp));
    if (af == AF_INET6 && confdata->nameservers[i].zone != 0) {
        char buf[sizeof("%4000000000")];
        snprintf(buf, sizeof(buf), "%%%u",
            confdata->nameservers[i].zone);
        strlcat(tmp, buf, sizeof(tmp));
    }
    newsrv = make_server(tmp, tmp);
    ISC_LINK_INIT(newsrv, link);
    ISC_LIST_ENQUEUE(*dest, newsrv, link);
}
}

void
flush_server_list(void) {
    dig_server_t *s, *ps;

dbog("flush_server_list()");
    s = ISC_LIST_HEAD(server_list);
    while (s != NULL) {
        ps = s;
        s = ISC_LIST_NEXT(s, link);
        ISC_LIST_DEQUEUE(server_list, ps, link);
        isc_mem_free(mctx, ps);
    }
}

void
set_nameserver(char *opt) {
    isc_result_t result;
    isc_sockaddr_t sockaddr[DIG_MAX_ADDRESSES];
    isc_netaddr_t netaddr;
int count, i;
dig_server_t *srv;
char tmp[ISC_NETADDR_FORMATSIZE];

if (opt == NULL)
return;

result = bind9_getaddresses(opt, 0, sockaddrs,
   DIG_MAX_ADDRESSES, &count);
if (result != ISC_R_SUCCESS)
fatal("couldn't get address for '%s': %s",
   opt, isc_result_totext(result));

flush_server_list();

for (i = 0; i < count; i++) {
isc_netaddr_fromsockaddr(&netaddr, &sockaddrs[i]);
isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
srv = make_server(tmp, opt);
if (srv == NULL)
fatal("memory allocation failure");
ISC_LIST_APPEND(server_list, srv, link);
}

static isc_result_t
add_nameserver(lwres_conf_t *confdata, const char *addr, int af) {
int i = confdata->nsnext;

if (confdata->nsnext >= LWRES_CONFMAXNAMESERVERS)
return (ISC_R_FAILURE);

switch (af) {
case AF_INET:
confdata->nameservers[i].family = LWRES_ADDRTYPE_V4;
confdata->nameservers[i].length = NS_INADDRSZ;
break;
case AF_INET6:
confdata->nameservers[i].family = LWRES_ADDRTYPE_V6;
confdata->nameservers[i].length = NS_IN6ADDRSZ;
break;
default:
return (ISC_R_FAILURE);
}

if (lwres_net_pton(af, addr, &confdata->nameservers[i].address) == 1) {
confdata->nsnext++;
return (ISC_R_SUCCESS);
}
return (ISC_R_FAILURE);
}

/*%
 * Produce a cloned server list. The dest list must have already had
 * ISC_LIST_INIT applied.
 */
void
clone_server_list(dig_serverlist_t src, dig_serverlist_t *dest) {
dig_server_t *srv, *newsrv;

debug("clone_server_list()"),
srv = ISC_LIST_HEAD(src);
while (srv != NULL) {
  newsrv = make_server(srv->servername, srv->userarg);
  ISC_LINK_INIT(newsrv, link);
  ISC_LIST_ENQUEUE(*dest, newsrv, link);
  srv = ISC_LIST_NEXT(srv, link);
}

/*%
 * Create an empty lookup structure, which holds all the information needed
 * to get an answer to a user's question. This structure contains two
 * linked lists: the server list (servers to query) and the query list
 * (outstanding queries which have been made to the listed servers).
 */
dig_lookup_t *
make_empty_lookup(void) {
dig_lookup_t *looknew;

debug("make_empty_lookup()");
INSIST(!free_now);

looknew = isc_mem_allocate(mctx, sizeof(struct dig_lookup));
if (looknew == NULL)
fatal("memory allocation failure in %s:%d",
    __FILE__, __LINE__);;
looknew->pending = true;
looknew->textname[0] = 0;
looknew->cmdline[0] = 0;
looknew->rdtype = dns_rdatatype_a;
looknew->qrdtype = dns_rdatatype_a;
looknew->rdclass = dns_rdataclass_in;
looknew->rdtypeset = false;
looknew->rdclassset = false;
looknew->sendspace = NULL;
looknew->sendmsg = NULL;
looknew->name = NULL;
looknew->oname = NULL;
looknew->xfr_q = NULL;
looknew->current_query = NULL;
looknew->doing_xfr = false;
looknew->ixfr_serial = 0;
looknew->trace = false;
looknew->trace_root = false;
looknew->identify = false;
looknew->identify_previous_line = false;
looknew->ignore = false;
looknew->servfail_stops = true;
looknew->besteffort = true;
looknew->dnssec = false;
looknew->ednsflags = 0;
looknew->opcode = dns_opcode_query;
looknew->expire = false;
looknew->nsid = false;
looknew->header_only = false;
looknew->sendcookie = false;
looknew->seenbadcookie = false;
looknew->badcookie = true;
#ifdef WITH_IDN_SUPPORT
looknew->idnin = isatty(1)?(getenv("IDN_DISABLE") == NULL):false;
#else
looknew->idnin = false;
#endif
#endif
#endif
looknew->do_topdown = false;
looknew->trace_root_sigchase = false;
looknew->rdtype_sigchaseset = false;
looknew->rdtype_sigchase = dns_rdatatype_any;
looknew->rdclass_sigchase = dns_rdataclass_in;
looknew->rdclass_sigchaseset = false;
#endif
#endif
looknew->udpsize = 0;
looknew->edns = -1;
looknew->recurse = true;
looknew->aaonly = false;
looknew->adflag = false;
looknew->cdflag = false;
looknew->print_unknown_format = false;
looknew->zflag = false;
looknew->ns_search_only = false;
looknew->origin = NULL;
looknew->tsigctx = NULL;
looknew->querysig = NULL;
looknew->retries = tries;
looknew->nsfound = 0;
looknew->tcp_mode = false;
looknew->tcp_mode_set = false;
looknew->ip6_int = false;
looknew->comments = true;
looknew->stats = true;
looknew->section_question = true;
looknew->section_answer = true;
looknew->section_authority = true;
looknew->section_additional = true;
looknew->new_search = false;
looknew->done_as_is = false;
looknew->need_search = false;
looknew->ecs_addr = NULL;
looknew->cookie = NULL;
looknew->ednsopts = NULL;
looknew->ednsoptscnt = 0;
looknew->dscp = -1;
looknew->eoferr = 0;
dns_fixedname_init(&looknew->fdomain);
ISC_LINK_INIT(looknew, link);
ISC_LIST_INIT(looknew->q);
ISC_LIST_INIT(looknew->connecting);
ISC_LIST_INIT(looknew->my_server_list);
return (looknew);
}
#define EDNSOPT_OPTIONS 100U

static void
cloeneopts(dig_lookup_t *looknew, dig_lookup_t *lookold) {
size_t len = sizeof(looknew->ednsopts[0]) * EDNSOPT_OPTIONS;
size_t i;
looknew->ednsopts = isc_mem_allocate(mctx, len);
if (looknew->ednsopts == NULL)
    fatal("out of memory");
for (i = 0; i < EDNSOPT_OPTIONS; i++) {
    looknew->ednsopts[i].code = 0;
    looknew->ednsopts[i].length = 0;
    looknew->ednsopts[i].value = NULL;
}
looknew->ednsoptscnt = 0;
if (lookold == NULL || lookold->ednsopts == NULL)
    return;
for (i = 0; i < lookold->ednsoptscnt; i++) {
    len = lookold->ednsopts[i].length;
    if (len != 0) {
        INSIST(lookold->ednsopts[i].value != NULL);
        looknew->ednsopts[i].value =
            isc_mem_allocate(mctx, len);
        if (looknew->ednsopts[i].value == NULL)
            fatal("out of memory");
        memmove(looknew->ednsopts[i].value,
            lookold->ednsopts[i].value, len);
    }
    looknew->ednsopts[i].code = lookold->ednsopts[i].code;
    looknew->ednsopts[i].length = len;
}
looknew->ednsoptscnt = lookold->ednsoptscnt;
}

/*%  
* Clone a lookup, perhaps copying the server list. This does not clone  
* the query list, since it will be regenerated by the setup_lookup()  
* function, nor does it queue up the new lookup for processing.  
* Caution: If you don't clone the servers, you MUST clone the server  
* list separately from somewhere else, or construct it by hand.  
*/
dig_lookup_t *
clone_lookup(dig_lookup_t *lookold, bool servers) {
    dig_lookup_t *looknew;

ddebug("clone_lookup()");

    INSIST(!free_now);

    looknew = make_empty_lookup();
    INSIST(looknew != NULL);
    strlcpy(looknew->textname, lookold->textname, MXNAME);
#if DIG_SIGCHASE_TD
    strlcpy(looknew->textnamesigchase, lookold->textnamesigchase, MXNAME);
#endif

#endif
strlcpy(looknew->cmdline, lookold->cmdline, MXNAME);
looknew->textname[MXNAME-1] = 0;
looknew->rdtype = lookold->rdtype;
looknew->qrdtype = lookold->qrdtype;
looknew->rdclass = lookold->rdclass;
looknew->rdtypeset = lookold->rdtypeset;
looknew->rdclassset = lookold->rdclassset;
looknew->doing_xfr = lookold->doing_xfr;
looknew->ixfr_serial = lookold->ixfr_serial;
looknew->trace = lookold->trace;
looknew->trace_root = lookold->trace_root;
looknew->identify = lookold->identify;
looknew->identify_previous_line = lookold->identify_previous_line;
looknew->ignore = lookold->ignore;
looknew->servfail_stops = lookold->servfail_stops;
looknew->besteffort = lookold->besteffort;
looknew->dnssec = lookold->dnssec;
looknew->ednsflags = lookold->ednsflags;
looknew->opcode = lookold->opcode;
looknew->expire = lookold->expire;
looknew->nsid = lookold->nsid;
looknew->header_only = lookold->header_only;
looknew->sendcookie = lookold->sendcookie;
looknew->seenbadcookie = lookold->seenbadcookie;
looknew->badcookie = lookold->badcookie;
looknew->cookie = lookold->cookie;
if (lookold->ednsopts != NULL) {
    cloneopts(looknew, lookold);
} else {
    looknew->ednsopts = NULL;
    looknew->ednsoptscnt = 0;
}
looknew->ednsneg = lookold->ednsneg;
looknew->mapped = lookold->mapped;
looknew->idnin = lookold->idnin;
looknew->idnout = lookold->idnout;
#if define DIG_SIGCHASE
looknew->sigchase = lookold->sigchase;
#endif
looknew->do_topdown = lookold->do_topdown;
looknew->trace_root_sigchase = lookold->trace_root_sigchase;
looknew->rdtype_sigchaseset = lookold->rdtype_sigchaseset;
looknew->rdtype_sigchase = lookold->rdtype_sigchase;
looknew->qrdtype_sigchase = lookold->qrdtype_sigchase;
looknew->rdclass_sigchase = lookold->rdclass_sigchase;
looknew->rdclass_sigchaseset = lookold->rdclass_sigchaseset;
#endif
#endif
looknew->udpsize = lookold->udpsize;
looknew->edns = lookold->edns;
looknew->recurse = lookold->recurse;
looknew->aonly = lookold->aonly;
looknew->adflag = lookold->adflag;
looknew->cdflag = lookold->cdflag;
looknew->print_unknown_format = lookold->print_unknown_format;
looknew->zflag = lookold->zflag;
looknew->ns_search_only = lookold->ns_search_only;
looknew->tcp_mode = lookold->tcp_mode;
looknew->tcp_mode_set = lookold->tcp_mode_set;
looknew->comments = lookold->comments;
looknew->stats = lookold->stats;
looknew->section_question = lookold->section_question;
looknew->section_answer = lookold->section_answer;
looknew->section_authority = lookold->section_authority;
looknew->section_additional = lookold->section_additional;
looknew->origin = lookold->origin;
looknew->retries = lookold->retries;
looknew->tsigctx = NULL;
looknew->need_search = lookold->need_search;
looknew->done_as_is = lookold->done_as_is;
looknew->dscp = lookold->dscp;
looknew->eoferr = lookold->eoferr;

if (lookold->ecs_addr != NULL) {
    size_t len = sizeof(isc_sockaddr_t);
    looknew->ecs_addr = isc_mem_allocate(mctx, len);
    if (looknew->ecs_addr == NULL)
        fatal("out of memory");
    memmove(looknew->ecs_addr, lookold->ecs_addr, len);
}

dns_name_copy(dns_fixedname_name(&lookold->fdomain),
              dns_fixedname_name(&looknew->fdomain), NULL);

if (servers)
    clone_server_list(lookold->my_server_list,
                      &looknew->my_server_list);
return (looknew);
}

/*%
 * Requeue a lookup for further processing, perhaps copying the server
 * list. The new lookup structure is returned to the caller, and is
 * queued for processing. If servers are not cloned in the requeue, they
 * must be added before allowing the current event to complete, since the
dig_lookup_t *
requeue_lookup(dig_lookup_t *lookold, bool servers) {
    dig_lookup_t *looknew;

debug("requeue_lookup()");

lookup_counter++;  
if (lookup_counter > LOOKUP_LIMIT)
fatal("too many lookups");

looknew = clone_lookup(lookold, servers);  
INSIST(looknew != NULL);

debug("before insertion, init@brief@%p -> %p, new@brief@%p -> %p",  
    lookold, lookold->link.next, looknew, looknew->link.next);
ISC_LIST_PREPEND(lookup_list, looknew, link);

debug("after insertion, init -> %p, new = %p, new -> %p",  
    lookold, looknew, looknew->link.next);
return (looknew);
}

void
setup_text_key(void) {
    isc_result_t result;
    dns_name_t keyname;
    isc_buffer_t secretbuf;
    unsigned int secretsize;
    unsigned char *secretstore;

debug("setup_text_key()");
result = isc_buffer_allocate(mctx, &namebuf, MXNAME);
check_result(result, "isc_buffer_allocate");
dns_name_init(&keyname, NULL);
check_result(result, "dns_name_init");
isc_buffer_putstr(namebuf, keynametext);
secretsize = (unsigned int) strlen(keysecret) * 3 / 4;
secretstore = isc_mem_allocate(mctx, secretsize);
if (secretstore == NULL)
fatal("memory allocation failure in %s:%d",  
    __FILE__, __LINE__);  
isc_buffer_init(&secretbuf, secretstore, secretsize);
if (secretstore == NULL)
fatal("memory allocation failure in %s:%d",  
    __FILE__, __LINE__);  
result = isc_base64_decodestring(keysecret, &secretbuf);
if (result != ISC_R_SUCCESS)
goto failure;
secretsize = isc_buffer_usedlength(&secretbuf);

if (hmacname == NULL) {
    result = DST_R_UNSUPPORTEDALG;
    goto failure;
}

result = dns_name_fromtext(&keyname, namebuf, dns_rootname, 0, namebuf);
if (result != ISC_R_SUCCESS)
    goto failure;

result = dns_tsigkey_create(&keyname, hmacname, secretstore,
                          (int)secretsize, false, NULL, 0, 0,
                          mctx, NULL, &tsigkey);
failure:
if (result != ISC_R_SUCCESS)
    printf(";; Couldn't create key %s: %s\n",
           keynametext, isc_result_totext(result));
else
    dst_key_setbits(tsigkey->key, digestbits);

isc_mem_free(mctx, secretstore);
dns_name_invalidate(&keyname);
isc_buffer_free(&namebuf);
}

static isc_result_t
parse_uint_helper(uint32_t *uip, const char *value, uint32_t max,
                   const char *desc, int base) {
    uint32_t n;
    isc_result_t result = isc_parse_uint32(&n, value, base);
    if (result == ISC_R_SUCCESS && n > max)
        result = ISC_R_RANGE;
    if (result != ISC_R_SUCCESS) {
        printf("invalid %s '%s': %s\n", desc,
               value, isc_result_totext(result));
        return (result);
    }
    *uip = n;
    return (ISC_R_SUCCESS);
}

isc_result_t
parse_uint(uint32_t *uip, const char *value, uint32_t max,
           const char *desc) {
    return (parse_uint_helper(uip, value, max, desc, 10));
}
isc_result_t
parse_xint(uint32_t *uip, const char *value, uint32_t max,
    const char *desc) {
    return (parse_uint_helper(uip, value, max, desc, 0));
}

static uint32_t
parse_bits(char *arg, const char *desc, uint32_t max) {
    isc_result_t result;
    uint32_t tmp;

    result = parse_uint(&tmp, arg, max, desc);
    if (result != ISC_R_SUCCESS)
        fatal("couldn't parse digest bits");
    tmp = (tmp + 7) & ~0x7U;
    return (tmp);
}

isc_result_t
parse_netprefix(isc_sockaddr_t **sap, const char *value) {
    isc_result_t result = ISC_R_SUCCESS;
    isc_sockaddr_t *sa = NULL;
    struct in_addr in4;
    struct in6_addr in6;
    uint32_t prefix_length = 0xffffffff;
    char *slash = NULL;
    bool parsed = false;
    bool prefix_parsed = false;

    REQUIRE(sap != NULL && *sap == NULL);

    if (strlcpy(buf, value, sizeof(buf)) >= sizeof(buf))
        fatal("invalid prefix '%s'\n", value);

    sa = isc_mem_allocate(mctx, sizeof(*sa));
    if (sa == NULL)
        fatal("out of memory");
    memset(sa, 0, sizeof(*sa));

    if (strcmp(buf, "0") == 0) {
        sa->type.sa.sa_family = AF_UNSPEC;
        prefix_length = 0;
        goto done;
    }

    slash = strchr(buf, '/');
if (slash != NULL) {
    *slash = '\0';
    result = isc_parse_uint32(&prefix_length, slash + 1, 10);
    if (result != ISC_R_SUCCESS) {
        fatal("invalid prefix length in '%s': %s
            value, isc_result_totext(result));
    }
    prefix_parsed = true;
}

if (inet_pton(AF_INET6, buf, &in6) == 1) {
    parsed = true;
    isc_sockaddr_fromin6(sa, &in6, 0);
    if (prefix_length > 128)
        prefix_length = 128;
} else if (inet_pton(AF_INET, buf, &in4) == 1) {
    parsed = true;
    isc_sockaddr_fromin(sa, &in4, 0);
    if (prefix_length > 32)
        prefix_length = 32;
} else if (prefix_parsed) {
    int i;

    for (i = 0; i < 3 && strlen(buf) < sizeof(buf) - 2; i++) {
        strlcat(buf, ".0", sizeof(buf));
        if (inet_pton(AF_INET, buf, &in4) == 1) {
            parsed = true;
            isc_sockaddr_fromin(sa, &in4, 0);
            break;
        }
    }

    if (prefix_length > 32)
        prefix_length = 32;
}

if (!parsed)
    fatal("invalid address '%s'", value);

done:
    sa->length = prefix_length;
    *sap = sa;

    return (ISC_R_SUCCESS);
}

/*
 * Parse HMAC algorithm specification

void
parse_hmac(const char *hmac) {
    char buf[20];
    size_t len;

    REQUIRE(hmac != NULL);

    len = strlen(hmac);
    if (len >= sizeof(buf))
        fatal("unknown key type "/.%s", (int)len, hmac);
    strlcpy(buf, hmac, sizeof(buf));

    digestbits = 0;

    #ifndef PK11_MD5_DISABLE
    if (strcasecmp(buf, "hmac-md5") == 0) {
        hmacname = DNS_TSIG_HMACMD5_NAME;
    } else if (strcasecmp(buf, "hmac-md5-", 9) == 0) {
        hmacname = DNS_TSIG_HMACMD5_NAME;
        digestbits = parse_bits(&buf[9], "digest-bits [0..128]", 128);
    } else
    #endif
        if (strcasecmp(buf, "hmac-sha1") == 0) {
            hmacname = DNS_TSIG_HMACSHA1_NAME;
            digestbits = 0;
        } else if (strncasecmp(buf, "hmac-sha1-", 10) == 0) {
            hmacname = DNS_TSIG_HMACSHA1_NAME;
            digestbits = parse_bits(&buf[10], "digest-bits [0..160]", 160);
        } else if (strcasecmp(buf, "hmac-sha224") == 0) {
            hmacname = DNS_TSIG_HMACSHA224_NAME;
        } else if (strncasecmp(buf, "hmac-sha224-", 12) == 0) {
            hmacname = DNS_TSIG_HMACSHA224_NAME;
            digestbits = parse_bits(&buf[12], "digest-bits [0..224]", 224);
        } else if (strcasecmp(buf, "hmac-sha256") == 0) {
            hmacname = DNS_TSIG_HMACSHA256_NAME;
        } else if (strncasecmp(buf, "hmac-sha256-", 12) == 0) {
            hmacname = DNS_TSIG_HMACSHA256_NAME;
            digestbits = parse_bits(&buf[12], "digest-bits [0..256]", 256);
        } else if (strncasecmp(buf, "hmac-sha384") == 0) {
            hmacname = DNS_TSIG_HMACSHA384_NAME;
        } else if (strncasecmp(buf, "hmac-sha384-", 12) == 0) {
            hmacname = DNS_TSIG_HMACSHA384_NAME;
            digestbits = parse_bits(&buf[12], "digest-bits [0..384]", 384);
        } else if (strncasecmp(buf, "hmac-sha512") == 0) {
            hmacname = DNS_TSIG_HMACSHA512_NAME;
        } else if (strncasecmp(buf, "hmac-sha512-", 12) == 0) {
            hmacname = DNS_TSIG_HMACSHA512_NAME;
/*
 * Get a key from a named.conf format keyfile
 */
static isc_result_t
read_confkey(void) {
    cfg_parser_t *pctx = NULL;
    cfg_obj_t *file = NULL;
    const cfg_obj_t *keyobj = NULL;
    const cfg_obj_t *secretobj = NULL;
    const cfg_obj_t *algorithmobj = NULL;
    const char *keyname;
    const char *secretstr;
    const char *algorithm;
    isc_result_t result;

    if (! isc_file_exists(keyfile))
        return (ISC_R_FILENOTFOUND);

    result = cfg_parser_create(mctx, NULL, &pctx);
    if (result != ISC_R_SUCCESS)
        goto cleanup;

    result = cfg_parse_file(pctx, keyfile, &cfg_type_sessionkey, &file);
    if (result != ISC_R_SUCCESS)
        goto cleanup;

    result = cfg_map_get(file, "key", &keyobj);
    if (result != ISC_R_SUCCESS)
        goto cleanup;

    (void) cfg_map_get(keyobj, "secret", &secretobj);
    (void) cfg_map_get(keyobj, "algorithm", &algorithmobj);
    if (secretobj == NULL || algorithmobj == NULL)
        fatal("key must have algorithm and secret");

    keyname = cfg_obj_asstring(cfg_map_getname(keyobj));
    secretstr = cfg_obj_asstring(secretobj);
    algorithm = cfg_obj_asstring(algorithmobj);

    strlcpy(keynametext, keyname, sizeof(keynametext));
strlcpy(keysecret, secretstr, sizeof(keysecret));
parse_hmac(algorithm);
setup_text_key();

cleanup:
if (pctx != NULL) {
if (file != NULL)
cfg_obj_destroy(pctx, &file);
cfg_parser_destroy(&pctx);
}
return (result);
}

void
setup_file_key(void) {
isc_result_t result;
dst_key_t *dstkey = NULL;

dbg("setup_file_key()");

/* Try reading the key from a K* pair */
result = dst_key_fromnamedfile(keyfile, NULL,
    DST_TYPE_PRIVATE | DST_TYPE_KEY, mctx,
    &dstkey);

/* If that didn't work, try reading it as a session.key keyfile */
if (result != ISC_R_SUCCESS) {
result = read_confkey();
if (result == ISC_R_SUCCESS)
return;
}
if (result != ISC_R_SUCCESS) {
fprintf(stderr, "Couldn't read key from %s: %s\n",
    keyfile, isc_result_totext(result));
goto failure;
}

switch (dst_key_alg(dstkey)) {
#ifndef PK11_MD5_DISABLE
    case DST_ALG_HMACMD5:
hmacname = DNS_TSIG_HMACMD5_NAME;
    break;
#endif
    case DST_ALG_HMACSHA1:
hmacname = DNS_TSIG_HMACSHA1_NAME;
    break;
}
case DST_ALG_HMACSHA224:
    hmacname = DNS_TSIG_HMACSHA224_NAME;
    break;

case DST_ALG_HMACSHA256:
    hmacname = DNS_TSIG_HMACSHA256_NAME;
    break;

case DST_ALG_HMACSHA384:
    hmacname = DNS_TSIG_HMACSHA384_NAME;
    break;

case DST_ALG_HMACSHA512:
    hmacname = DNS_TSIG_HMACSHA512_NAME;
    break;

default:
    printf(";; Couldn't create key %s: bad algorithm\n", keynametext);
    goto failure;
}

result = dns_tsigkey_createfromkey(dst_key_name(dstkey), hmacname,
    dstkey, false, NULL, 0, 0,
    mctx, NULL, &tsigkey);
if (result != ISC_R_SUCCESS) {
    printf(";; Couldn't create key %s: %s\n",
        keynametext, isc_result_totext(result));
    goto failure;
}

failure:
if (dstkey != NULL)
    dst_key_free(&dstkey);

static dig_searchlist_t *
make_searchlist_entry(char *domain) {
    dig_searchlist_t *search;
    search = isc_mem_allocate(mctx, sizeof(*search));
    if (search == NULL)
        fatal("memory allocation failure in %s:%d",
            __FILE__, __LINE__);
    strlcpy(search->origin, domain, MXNAME);
    search->origin[MXNAME-1] = 0;
    ISC_LINK_INIT(search, link);
    return (search);
}

static void
clear_searchlist(void) {
    dig_searchlist_t *search;
    while ((search = ISC_LIST_HEAD(search_list)) != NULL) {
        ISC_LIST_UNLINK(search_list, search, link);
        ISC_LIST_UNLINK(search->link, search, link);
    }
}
isc_mem_free(mctx, search);
}

static void
create_search_list(lwres_conf_t *confdata) {
    int i;
    dig_searchlist_t *search;

    debug("create_search_list()");
    clear_searchlist();

    for (i = 0; i < confdata->searchnxt; i++) {
        search = make_searchlist_entry(confdata->search[i]);
        ISC_LIST_APPEND(search_list, search, link);
    }
}

/*%
 * Setup the system as a whole, reading key information and resolv.conf
 * settings.
 */
void
setup_system(bool ipv4only, bool ipv6only) {
    dig_searchlist_t *domain = NULL;
    lwres_result_t lwresult;
    unsigned int lwresflags;
    isc_result_t result;

    debug("setup_system()");

    if (ipv4only) {
        if (have_ipv4) {
            isc_net_disableipv6();
            have_ipv6 = false;
        } else {
            fatal("can't find IPv4 networking");
        }
    }

    if (ipv6only) {
        if (have_ipv6) {
            isc_net_disableipv4();
            have_ipv4 = false;
        } else {
            fatal("can't find IPv6 networking");
        }
    }
}
lwresflags = LWRES_CONTEXT_SERVERMODE;
if (have_ipv4)
lwresflags |= LWRES_CONTEXT_USEIPV4;
if (have_ipv6)
lwresflags |= LWRES_CONTEXT_USEIPV6;

lwresult = lwres_context_create(&lwctx, mctx, mem_alloc, mem_free,
lwresflags);
if (lwresult != LWRES_R_SUCCESS)
fatal("lwres_context_create failed");

lwresult = lwres_conf_parse(lwctx, RESOLV_CONF);
if (lwresult != LWRES_R_SUCCESS && lwresult != LWRES_R_NOTFOUND)
fatal("parse of %s failed", RESOLV_CONF);

lwconf = lwres_conf_get(lwctx);

/* Make the search list */
if (lwconf->searchnxt > 0)
create_search_list(lwconf);
else { /* No search list. Use the domain name if any */
if (lwconf->domainname != NULL) {
    domain = make_searchlist_entry(lwconf->domainname);
    ISC_LIST_APPEND(search_list, domain, link);
    domain = NULL;
}
}

if (lwconf->resdebug) {
    verbose = true;
    debug("verbose is on");
}
if (ndots == -1) {
    ndots = lwconf->ndots;
    debug("ndots is %d.", ndots);
}
if (lwconf->attempts) {
    tries = lwconf->attempts + 1;
    if (tries < 2)
        tries = 2;
    debug("tries is %d.", tries);
}
if (lwconf->timeout) {
    timeout = lwconf->timeout;
    debug("timeout is %d.", timeout);
}
/ * If user doesn’t specify server use nameservers from resolv.conf. */ if (ISC_LIST_EMPTY(server_list))
copy_server_list(lwconf, &server_list);

/* If we don’t find a nameserver fall back to localhost */
if (ISC_LIST_EMPTY(server_list)) {
  if (have_ipv4) {
    lwresult = add_nameserver(lwconf, "127.0.0.1", AF_INET);
    if (lwresult != ISC_R_SUCCESS)
fatal("add_nameserver failed");
  }
  if (have_ipv6) {
    lwresult = add_nameserver(lwconf, "::1", AF_INET6);
    if (lwresult != ISC_R_SUCCESS)
fatal("add_nameserver failed");
  }
}
copy_server_list(lwconf, &server_list);

#ifdef HAVE_SETLOCALE
/* Set locale */
(void)setlocale(LC_ALL, "");
#endif

#ifdef WITH_IDN_SUPPORT
idn_initialize();
#endif

#ifdef WITH_IDN_OUT_SUPPORT
/* Set domain name -> text post-conversion filter. */
result = dns_name_settotextfilter(output_filter);
check_result(result, "dns_name_settotextfilter");
#endif

if (keyfile[0] != 0)
  setup_file_key();
else if (keysecret[0] != 0)
  setup_text_key();
#ifdef DIG_SIGCHASE
/* Setup the list of messages for +sigchase */
ISC_LIST_INIT(chase_message_list);
ISC_LIST_INIT(chase_message_list2);
dns_name_init(&chase_name, NULL);
#endif
#ifdef DIG_SIGCHASE_TD
  dns_name_init(&chase_current_name, NULL);
dns_name_init(&chase_authority_name, NULL);
#endif
#if DIG_SIGCHASE_BU
dns_name_init(&chase_signame, NULL);
#endif

#endif

result = isc_entropy_getdata(entp, cookie_secret,
                 sizeof(cookie_secret), NULL, 0);
if (result != ISC_R_SUCCESS)
fatal("unable to generate cookie secret");
}

/*%
 * Override the search list derived from resolv.conf by 'domain'.
 */
void
set_search_domain(char *domain) {
    dig_searchlist_t *search;

clear_searchlist();
    search = make_searchlist_entry(domain);
    ISC_LIST_APPEND(search_list, search, link);
}

/*%
 * Setup the ISC and DNS libraries for use by the system.
 */
void
setup_libs(void) {
    isc_result_t result;
    isc_logconfig_t *logconfig = NULL;

dbg("setup_libs()");

#ifdef PKCS11CRYPTO
  pk11_result_register();
#endif
dns_result_register();

    result = isc_net_probeipv4();
    if (result == ISC_R_SUCCESS)
        have_ipv4 = true;

    result = isc_net_probeipv6();
    if (result == ISC_R_SUCCESS)
        have_ipv6 = true;
    if (!have_ipv6 && !have_ipv4)
fatal("can't find either v4 or v6 networking");
result = isc_mem_create(0, 0, &mctx);
check_result(result, "isc_mem_create");
isc_mem_setname(mctx, "dig", NULL);

result = isc_log_create(mctx, &lctx, &logconfig);
check_result(result, "isc_log_create");

isc_log_setcontext(lctx);
dns_log_init(lctx);
dns_log_setcontext(lctx);

result = isc_log_usechannel(logconfig, "default_debug", NULL, NULL);
check_result(result, "isc_log_usechannel");

isc_log_setdebuglevel(lctx, 0);

result = isc_taskmgr_create(mctx, 1, 0, &taskmgr);
check_result(result, "isc_taskmgr_create");

result = isc_task_create(taskmgr, 0, &global_task);
check_result(result, "isc_task_create");
isc_task_setname(global_task, "dig", NULL);

result = isc_timermgr_create(mctx, &timermgr);
check_result(result, "isc_timermgr_create");

result = isc_socketmgr_create(mctx, &socketmgr);
check_result(result, "isc_socketmgr_create");

result = isc_entropy_create(mctx, &entp);
check_result(result, "isc_entropy_create");

dst_lib_init(mctx, entp, 0);
check_result(result, "dst_lib_init");
is_dst_up = true;

result = isc_mempool_create(mctx, COMMSIZE, &commctx);
check_result(result, "isc_mempool_create");
isc_mempool_setname(commctx, "COMMPool");
/*
   * 6 and 2 set as reasonable parameters for 3 or 4 nameserver
   * systems.
   */
isc_mempool_setfreemax(commctx, 6);
isc_mempool_setfillcount(commctx, 2);

result = isc_mutex_init(&lookup_lock);
check_result(result, "isc_mutex_init");
typedef struct dig_ednsoptname {
    uint32_t code;
    const char *name;
} dig_ednsoptname_t;

dig_ednsoptname_t optnames[] = {
    { 3, "NSID" }, /* RFC 5001 */
    { 5, "DAU" }, /* RFC 6975 */
    { 6, "DHU" }, /* RFC 6975 */
    { 7, "N3U" }, /* RFC 6975 */
    { 8, "ECS" }, /* RFC 7871 */
    { 9, "EXPRIE" }, /* RFC 7314 */
    { 10, "COOKIE" }, /* RFC 7873 */
    { 11, "KEEPALIVE" }, /* RFC 7828 */
    { 12, "PADDING" }, /* RFC 7830 */
    { 12, "PAD" }, /* shorthand */
    { 13, "CHAIN" }, /* RFC 7901 */
    { 14, "KEY-TAG" }, /* RFC 8145 */
    { 16, "CLIENT-TAG" }, /* draft-bellis-dnsop-edns-tags */
    { 17, "SERVER-TAG" }, /* draft-bellis-dnsop-edns-tags */
    { 26946, "DEVICEID" }, /* Brian Hartvigsen */
};

#define N_EDNS_OPTNAMES (sizeof(optnames) / sizeof(optnames[0]))

void
save_opt(dig_lookup_t *lookup, char *code, char *value) {
    isc_result_t result;
    uint32_t num = 0;
    isc_buffer_t b;
    bool found = false;
    unsigned int i;

    if (lookup->ednsoptscnt >= EDNSOPT_OPTIONS)
        fatal("too many ednsopts");

    for (i = 0; i < N_EDNS_OPTNAMES; i++) {
        if (strcasecmp(code, optnames[i].name) == 0) {
            num = optnames[i].code;
            found = true;
            break;
        }
    }

    if (!found) {
        result = parse_uint(&num, code, 65535, "ednsopt");
    }
if (result != ISC_R_SUCCESS)
    fatal("bad edns code point: %s", code);
}

if (lookup->ednsopts == NULL) {
    cloneopts(lookup, NULL);
}

if (lookup->ednsopts[lookup->ednsoptscnt].value != NULL)
    isc_mem_free(mctx, lookup->ednsopts[lookup->ednsoptscnt].value);

lookup->ednsopts[lookup->ednsoptscnt].code = num;
lookup->ednsopts[lookup->ednsoptscnt].length = 0;
lookup->ednsopts[lookup->ednsoptscnt].value = NULL;

if (value != NULL) {
    char *buf;
    buf = isc_memAllocate(mctx, strlen(value)/2 + 1);
    if (buf == NULL)
        fatal("out of memory");
    iscBufferInit(&b, buf, (unsigned int) strlen(value)/2 + 1);
    result = iscHexDecodestring(value, &b);
    check_result(result, "iscHexDecodestring");
    lookup->ednsopts[lookup->ednsoptscnt].value =
        iscBufferBase(&b);
    lookup->ednsopts[lookup->ednsoptscnt].length =
        iscBufferUsedlength(&b);
}

lookup->ednsoptscnt++;
}

/*%
  * Add EDNS0 option record to a message. Currently, the only supported
  * options are UDP buffer size, the DO bit, and EDNS options
  * (e.g., NSID, COOKIE, client-subnet)
  */
  *
  static void
  add_opt(dns_message_t *msg, uint16_t udpsize, uint16_t edns,
          unsigned int flags, dns_ednsopt_t *opts, size_t count)
  {
      dns_rdataset_t *rdataset = NULL;
      isc_result_t result;

      debug("add_opt()");
      result = dns_message_buildopt(msg, &rdataset, edns, udpsize, flags,
                                    opts, count);
      check_result(result, "dns_message_buildopt");
result = dns_message_setopt(msg, rdataset);
check_result(result, "dns_message_setopt");
}

/*%
* Add a question section to a message, asking for the specified name,
* type, and class.
*/
static void
add_question(dns_message_t *message, dns_name_t *name,
   dns_rdataclass_t rdclass, dns_rdatatype_t rdtype)
{
   dns_rdataset_t *rdataset;
   isc_result_t result;

   debug("add_question()");
   rdataset = NULL;
   result = dns_message_gettemprdataset(message, &rdataset);
   check_result(result, "dns_message_gettemprdataset");
   dns_rdataset_makequestion(rdataset, rdclass, rdtype);
   ISC_LIST_APPEND(name->list, rdataset, link);
}

/*%
* Check if we're done with all the queued lookups, which is true iff
* all sockets, sends, and recvs are accounted for (counters == 0),
* and the lookup list is empty.
* If we are done, pass control back out to dighost_shutdown() (which is
* part of dig.c, host.c, or nslookup.c) to either shutdown the system as
* a whole or reseed the lookup list.
*/
static void
check_if_done(void) {
   debug("check_if_done()");
   debug("list %s", ISC_LIST_EMPTY(lookup_list) ? "empty" : "full");
   if (ISC_LIST_EMPTY(lookup_list) && current_lookup == NULL &&
      sendcount == 0) {
      INSIST(sockcount == 0);
      INSIST(reccount == 0);
      debug("shutting down");
      dighost_shutdown();
   }
}

/*%
* Clear out a query when we're done with it. WARNING: This routine
* WILL invalidate the query pointer.
*/
static void
clear_query(dig_query_t *query) {
  dig_lookup_t *lookup;

  REQUIRE(query != NULL);

  debug("clear_query(%p)", query);

  if (query->timer != NULL)
    isc_timer_detach(&query->timer);
  lookup = query->lookup;

  if (lookup->current_query == query)
    lookup->current_query = NULL;

  if (ISC_LINK_LINKED(query, link))
    ISC_LIST_UNLINK(lookup->q, query, link);
  if (ISC_LINK_LINKED(query, clink))
    ISC_LIST_UNLINK(lookup->connecting, query, clink);
  if (ISC_LINK_LINKED(&query->recvbuf, link))
    ISC_LIST_DEQUEUE(query->recvlist, &query->recvbuf, link);
  if (ISC_LINK_LINKED(&query->lengthbuf, link))
    ISC_LIST_DEQUEUE(query->lengthlist, &query->lengthbuf, link);
  INSIST(query->recvspace != NULL);

  if (query->sock != NULL) {
    isc_socket_detach(&query->sock);
    sockcount--;
    debug("sockcount=%d", sockcount);
  }
  isc_mempool_put(commctx, query->recvspace);
  isc_buffer_invalidate(&query->recvbuf);
  isc_buffer_invalidate(&query->lengthbuf);
  if (query->waiting_senddone)
    query->pending_free = true;
  else
    isc_mem_free(mctx, query);
}

/*%
 * Try and clear out a lookup if we're done with it. Return true if
 * the lookup was successfully cleared. If true is returned, the
 * lookup pointer has been invalidated.
 */
static bool
try_clear_lookup(dig_lookup_t *lookup) {

dig_query_t *q;

REQUIRE(lookup != NULL);

d debug("try_clear_lookup(%p)", lookup);

if (ISC_LIST_HEAD(lookup->q) != NULL ||
    ISC_LIST_HEAD(lookup->connecting) != NULL) {
    if (debugging) {
        q = ISC_LIST_HEAD(lookup->q);
        while (q != NULL) {
            debug("query to %s still pending", q->servname);
            q = ISC_LIST_NEXT(q, link);
        }
    }
    q = ISC_LIST_HEAD(lookup->connecting);
    while (q != NULL) {
        debug("query to %s still connecting", q->servname);
        q = ISC_LIST_NEXT(q, clink);
    }
    return (false);
}

/*
 * At this point, we know there are no queries on the lookup,
 * so can make it go away also.
 */
destroy_lookup(lookup);
return (true);
}

void
destroy_lookup(dig_lookup_t *lookup) {
    dig_server_t *s;
    void *ptr;

d debug("destroy");
    s = ISC_LIST_HEAD(lookup->my_server_list);
    while (s != NULL) {
        debug("freeing server %p belonging to %p", s, lookup);
        ptr = s;
        s = ISC_LIST_NEXT(s, link);
        ISC_LIST_DEQUEUE(lookup->my_server_list,
                         (dig_server_t *)ptr, link);
        isc_mem_free(mctx, ptr);
    }
if (lookup->sendmsg != NULL)
    dns_message_destroy(&lookup->sendmsg);
if (lookup->querysig != NULL) {
    debug("freeing buffer %p", lookup->querysig);
    isc_buffer_free(&lookup->querysig);
}
if (lookup->sendspace != NULL)
    isc_mempool_put(commctx, lookup->sendspace);
if (lookup->tsigctx != NULL)
    dst_context_destroy(&lookup->tsigctx);
if (lookup->ecs_addr != NULL)
    isc_mem_free(mctx, lookup->ecs_addr);
if (lookup->ednsopts != NULL) {
    size_t i;
    for (i = 0; i < EDNSOPT_OPTIONS; i++) {
        if (lookup->ednsopts[i].value != NULL)
            isc_mem_free(mctx, lookup->ednsopts[i].value);
    }
    isc_mem_free(mctx, lookup->ednsopts);
}
isc_mem_free(mctx, lookup);

/*%
 * If we can, start the next lookup in the queue running.
 * This assumes that the lookup on the head of the queue hasn't been
 * started yet. It also removes the lookup from the head of the queue,
 * setting the current_lookup pointer pointing to it.
 */
void
start_lookup(void) {
    debug("start_lookup()");
    if (cancel_now)
        return;

    /*
     * If there's a current lookup running, we really shouldn't get
     * here.
     */
    INSIST(current_lookup == NULL);

    current_lookup = ISC_LIST_HEAD(lookup_list);
/*
* Put the current lookup somewhere so cancel_all can find it */
if (current_lookup != NULL) {
    ISC_LIST_DEQUEUE(lookup_list, current_lookup, link);
#if DIG_SIGCHASE_TD
    if (current_lookup->do_topdown &&
        !current_lookup->rdtype_sigchaseset) {
        dst_key_t *dstkey = NULL;
        isc_buffer_t *b = NULL;
        isc_region_t r;
        isc_result_t result;
        dns_name_t query_name;
        dns_name_t *key_name;
        int i;

        result = get_trusted_key();
        if (result != ISC_R_SUCCESS) {
            printf("; No trusted key. 
                +sigchase option is disabled\n");
            current_lookup->sigchase = false;
            goto novalidation;
        }
        dns_name_init(&query_name, NULL);
        nameFromString(current_lookup->textname, &query_name);
        for (i = 0; i < tk_list.nb_tk; i++) {
            key_name = dst_key_name(tk_list.key[i]);

            if (dns_name_issubdomain(&query_name, 
                        key_name) == true)
                dstkey = tk_list.key[i];
        /*
         * Verify temp is really the lowest
         * WARNING
        */
        }
        if (dstkey == NULL) {
            printf("; The queried zone: ");
            dns_name_print(&query_name, stdout);
            printf(" isn't a subdomain of any Trusted Keys" 
                   ": +sigchase option is disabled\n");
            current_lookup->sigchase = false;
            free_name(&query_name);
        goto novalidation;
    }
    free_name(&query_name);

    current_lookup->rdtype_sigchase
= current_lookup->rdtype;
current_lookup->rdtype_sigchaseset
= current_lookup->rdtypeset;
current_lookup->rdtype = dns_rdatatype_ns;

current_lookup->qrdtype_sigchase
= current_lookup->qrdtype;
current_lookup->qrdtype = dns_rdatatype_ns;

current_lookup->rdclass_sigchase
= current_lookup->rdclass;
current_lookup->rdclass_sigchaseset
= current_lookup->rdclassset;
current_lookup->rdclass = dns_rdataclass_in;

strlcpy(current_lookup->textnamesigchase,
current_lookup->textname, MXNAME);

current_lookup->trace_root_sigchase = true;

result = isc_buffer_allocate(mctx, &b, BUFSIZE);
check_result(result, "isc_buffer_allocate");
result = dns_name_totext(dst_key_name(dstkey),
false, b);
check_result(result, "dns_name_totext");
isc_buffer_usedregion(b, &r);
r.base[r.length] = '\0';
strlcpy(current_lookup->textname, (char*)r.base,
MXNAME);
isc_buffer_free(&b);

nameFromString(current_lookup->textnamesigchase,
 &chase_name);

dns_name_init(&chase_authority_name, NULL);
}
novalidation:
#endif
if (setup_lookup(current_lookup))
do_lookup(current_lookup);
else if (next_origin(current_lookup))
check_next_lookup(current_lookup);
} else {
check_if_done();
}
/*%
* If we can, clear the current lookup and start the next one running.
* This calls try_clear_lookup, so may invalidate the lookup pointer.
*/

static void
check_next_lookup(dig_lookup_t *lookup) {

INSIST(!free_now);

dbglw("check_next_lookup(%p)", lookup);

if (ISC_LIST_HEAD(lookup->q) != NULL) {
    dbglw("still have a worker");
    return;
}
if (try_clear_lookup(lookup)) {
    current_lookup = NULL;
    start_lookup();
}
}

/*%
 * Create and queue a new lookup as a followup to the current lookup,
 * based on the supplied message and section. This is used in trace and
 * name server search modes to start a new lookup using servers from
 * NS records in a reply. Returns the number of followup lookups made.
 */

static int
followup_lookup(dns_message_t *msg, dig_query_t *query, dns_section_t section) {
    dig_lookup_t *lookup = NULL;
    dig_server_t *srv = NULL;
    dns_rdataset_t *rdataset = NULL;
    dns_rdata_t rdata = DNS_RDATA_INIT;
    dns_name_t *name = NULL;
    isc_result_t result;
    bool success = false;
    int numLookups = 0;
    int num;
    isc_result_t lresult, addresses_result;
    char bad_namestr[DNS_NAME_FORMATSIZE];
    dns_name_t *domain;
    bool horizontal = false, bad = false;

    INSIST(!free_now);

    dbglw("following up %s", query->lookup->textname);

    addresses_result = ISC_R_SUCCESS;

    ...
bad_namestr[0] = '\0';
for (result = dns_message_firstname(msg, section);
    result == ISC_R_SUCCESS;
    result = dns_message_nextname(msg, section)) {
    name = NULL;
    dns_message_currentname(msg, section, &name);
    if (section == DNS_SECTION_AUTHORITY) {
        rdataset = NULL;
        result = dns_message_findtype(name, dns_rdatatype_soa,
            0, &rdataset);
        if (result == ISC_R_SUCCESS)
            return (0);
    }
    rdataset = NULL;
    result = dns_message_findtype(name, dns_rdatatype_ns, 0,
        &rdataset);
    if (result != ISC_R_SUCCESS)
        continue;

dump("found NS set");
    if (query->lookup->trace && !query->lookup->trace_root) {
        dns_namereln_t namereln;
        unsigned int nlabels;
        int order;

        domain = dns_fixedname_name(&query->lookup->fdomain);
        namereln = dns_name_fullcompare(name, domain,
            &order, &nlabels);
        if (namereln == dns_namereln_equal) {
            if (!horizontal)
                printf(";; BAD (HORIZONTAL) REFERRAL\n");
            horizontal = true;
        } else if (namereln != dns_namereln_subdomain) {
            if (!bad)
                printf(";; BAD REFERRAL\n");
            bad = true;
            continue;
        }
    }

    for (result = dns_rdataset_first(rdataset);
        result == ISC_R_SUCCESS;
        result = dns_rdataset_next(rdataset)) {
        char namestr[DNS_NAME_FORMATSIZE];
        dns_rdata_ns_t ns;
if (query->lookup->trace_root &&
    query->lookup->nsfound >= MXSERV)
break;

dns_rdataset_current(rdataset, &rdata);

query->lookup->nsfound++;
result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");
dns_name_format(&ns.name, namestr, sizeof(namestr));
dns_rdata_freestruct(&ns);
/* Initialize lookup if we've not yet */
dbg("found NS %s", namestr);
if (!success) {
    success = true;
    lookup_counter++;
    lookup = requeue_lookup(query->lookup, false);
cancel_lookup(query->lookup);
    lookup->doing_xfr = false;
    if (!lookup->trace_root &&
        section == DNS_SECTION_ANSWER)
        lookup->trace = false;
    else
        lookup->trace = query->lookup->trace;
    lookup->ns_search_only =
        query->lookup->ns_search_only;
    lookup->trace_root = false;
    if (lookup->ns_search_only)
        lookup->recurse = false;
    domain = dns_fixedname_name(&lookup->fdomain);
    dns_name_copy(name, domain, NULL);
}
    dbg("adding server %s", namestr);
    num = getaddresses(lookup, namestr, &lresult);
    if (lresult != ISC_R_SUCCESS) {
        printf("couldn't get address for '%s': %s\n", namestr, isc_result_totext(lresult));
        if (addresses_result == ISC_R_SUCCESS) {
            addresses_result = lresult;
            strlcpy(bad_namestr, namestr, sizeof(bad_namestr));
        }
    }
    numLookups += num;
    dns_rdata_reset(&rdata);
if (numLookups == 0 && addresses_result != ISC_R_SUCCESS) {
    fatal("couldn't get address for '%s': %s",
         bad_namestr, isc_result_totext(result));
}

if (lookup == NULL &&
    section == DNS_SECTION_ANSWER &&
    (query->lookup->trace || query->lookup->ns_search_only))
return (followup_lookup(msg, query, DNS_SECTION_AUTHORITY));

/*
 * Randomize the order the nameserver will be tried.
 */
if (numLookups > 1) {
    uint32_t i, j;
    dig_serverlist_t my_server_list;
    dig_server_t *next;

    ISC_LIST_INIT(my_server_list);

    i = numLookups;
    for (srv = ISC_LIST_HEAD(lookup->my_server_list);
        srv != NULL;
        srv = ISC_LIST_HEAD(lookup->my_server_list)) {
        INSIST(i > 0);
        isc_random_get(&j);
        j %= i;
        next = ISC_LIST_NEXT(srv, link);
        while (j-- > 0 && next != NULL) {
            srv = next;
            next = ISC_LIST_NEXT(srv, link);
        }
        ISC_LIST_DEQUEUE(lookup->my_server_list, srv, link);
        ISC_LIST_APPEND(my_server_list, srv, link);
    }

    return (numLookups);
}

/*%
 * Create and queue a new lookup using the next origin from the search
 * list, read in setup_system().
 */
static bool
next_origin(dig_lookup_t *oldlookup) {
dig_lookup_t *newlookup;
dig_searchlist_t *search;
dns_fixedname_t fixed;
dns_name_t *name;
isc_result_t result;

INSIST(!free_now);

ddebug("next_origin()");
ddebug("following up %s", oldlookup->textname);

if (!usesearch)
/*
 * We're not using a search list, so don't even think
 * about finding the next entry.
 */
return (false);

/*
 * Check for a absolute name or ndots being met.
 */
name = dns_fixedname_initname(&fixed);
result = dns_name_fromstring2(name, oldlookup->textname, NULL,
0, NULL);
if (result == ISC_R_SUCCESS &&
(dns_name_isabsolute(name) ||
(int)dns_name_countlabels(name) > ndots))
return (false);

if (oldlookup->origin == NULL && !oldlookup->need_search)
/*
 * Then we just did rootorg; there's nothing left.
 */
return (false);

if (oldlookup->origin == NULL && !oldlookup->need_search) {
newlookup = requeue_lookup(oldlookup, true);
newlookup->origin = ISC_LIST_HEAD(search_list);
newlookup->need_search = false;
} else {
search = ISC_LIST_NEXT(oldlookup->origin, link);
if (search == NULL && oldlookup->done_as_is)
return (false);
newlookup = requeue_lookup(oldlookup, true);
newlookup->origin = search;
cancel_lookup(oldlookup);
return (true);
}

/*%
* Insert an SOA record into the sendmessage in a lookup. Used for
* creating IXFR queries.
*/
static void
insert_soa(dig_lookup_t *lookup) {
isc_result_t result;
dns_rdata_soa_t soa;
dns_rdata_t *rdata = NULL;
dns_rdatalist_t *rdatalist = NULL;
dns_rdataset_t *rdataset = NULL;
dns_name_t *soaname = NULL;

ddebug("insert_soa()");
soa.mctx = mctx;
soa.serial = lookup->ixfr_serial;
soa.refresh = 0;
soa.retry = 0;
soa.expire = 0;
soa.minimum = 0;
soa.common.rdclass = lookup->rdclass;
soa.common.rdtype = dns_rdatatype_soa;

dns_name_init(&soa.origin, NULL);
dns_name_init(&soa.contact, NULL);

dns_name_clone(dns_rootname, &soa.origin);
dns_name_clone(dns_rootname, &soa.contact);
isc_buffer_init(&lookup->rdatabuf, lookup->rdatastore,
sizeof(lookup->rdatastore));

result = dns_message_gettemprdata(lookup->sendmsg, &rdata);
check_result(result, "dns_message_gettemprdata");

result = dns_rdata_fromstruct(rdata, lookup->rdclass,
   dns_rdatatypd_soa, &soa,
   &lookup->rdatabuf);
check_result(result, "isc_rdata_fromstruct");

result = dns_message_gettemprdatalist(lookup->sendmsg, &rdatalist);
check_result(result, "dns_message_gettemprdatalist");
result = dns_message_gettemprdataset(lookup->sendmsg, &rdataset);
check_result(result, "dns_message_gettemprdataset");

dns_rdatalist_init(rdatalist);
rdatalist->type = dns_rdatatype_soa;
rdatalist->rdclass = lookup->rdclass;
ISC_LIST_APPEND(rdatalist->rdata, rdata, link);

dns_rdatalist_tordataset(rdatalist, rdataset);

result = dns_message_gettempname(lookup->sendmsg, &soaname);
check_result(result, "dns_message_gettempname");
dns_name_init(soaname, NULL);
dns_name_clone(lookup->name, soaname);
ISC_LIST_INIT(soaname->list);
ISC_LIST_APPEND(soaname->list, rdataset, link);

dns_message_addname(lookup->sendmsg, soaname, DNS_SECTION_AUTHORITY);
}

static void
compute_cookie(unsigned char *clientcookie, size_t len) {
/* XXXMPA need to fix, should be per server. */
INSIST(len >= 8U);
memmove(clientcookie, cookie_secret, 8);
}

/*%
* Setup the supplied lookup structure, making it ready to start sending
* queries to servers. Create and initialize the message to be sent as
* well as the query structures and buffer space for the replies. If the
* server list is empty, clone it from the system default list.
*/

bool
setup_lookup(dig_lookup_t *lookup) {
isc_result_t result;
uint32_t id;
unsigned int len;
dig_server_t *serv;
dig_query_t *query;
isc_buffer_t b;
dns_compress_t cctx;
char store[MXNAME];
char ecsbuf[20];
char cookiebuf[256];
char *origin = NULL;
char *textname = NULL;
#error WITH_IDN_SUPPORT
char idn_origin[MXNAME], idn_textname[MXNAME];
#endif

#ifdef WITH_IDN_OUT_SUPPORT
result = dns_name_settotextfilter(lookup->idnout ?
output_filter : NULL);
check_result(result, "dns_name_settotextfilter");
#endif

REQUIRE(lookup != NULL);
INSIST(!free_now);

dump("setup_lookup(%p)", lookup);

result = dns_message_create(mctx, DNS_MESSAGE_INTENTRENDER,
&lookup->sendmsg);
check_result(result, "dns_message_create");

if (lookup->new_search) {
debug("resetting lookup counter.");
lookup_counter = 0;
}

if (ISC_LIST_EMPTY(lookup->my_server_list)) {
debug("cloning server list");
clone_server_list(server_list, &lookup->my_server_list);
} result = dns_message_gettempname(lookup->sendmsg, &lookup->name);
check_result(result, "dns_message_gettempname");
dns_name_init(lookup->name, NULL);

isc_buffer_init(&lookup->namebuf, lookup->name_space,
sizeof(lookup->name_space));
isc_buffer_init(&lookup->onamebuf, lookup->oname_space,
sizeof(lookup->oname_space));

/*
 * We cannot convert 'textname' and 'origin' separately.
 * 'textname' doesn't contain TLD, but local mapping needs
 * TLD.
 */
textname = lookup->textname;
#endif WITH_IDN_OUT_SUPPORT
if (lookup->idnin) {
result = idn_locale_to_ace(textname, idn_textname, sizeof(idn_textname));
check_result(result, "convert textname to IDN encoding");
dump("idn_textname: %s", idn_textname);
textname = idn_textname;
}
/*
 * If the name has too many dots, force the origin to be NULL
 * (which produces an absolute lookup). Otherwise, take the origin
 * we have if there's one in the struct already. If it's NULL,
 * take the first entry in the searchlist iff either usesearch
 * is TRUE or we got a domain line in the resolv.conf file.
 */
if (lookup->new_search) {
    if ((count_dots(textname) >= ndots) || !usesearch) {
        lookup->origin = NULL; /* Force abs lookup */
        lookup->done_as_is = true;
        lookup->need_search = usesearch;
    } else if (lookup->origin == NULL && usesearch) {
        lookup->origin = ISC_LIST_HEAD(search_list);
        lookup->need_search = false;
    }
}

if (lookup->origin != NULL) {
    debug("trying origin %s", lookup->origin->origin);
    result = dns_message_gettempname(lookup->sendmsg,
        &lookup->oname);
    check_result(result, "dns_message_gettempname");
    dns_name_init(lookup->oname, NULL);
    /* XXX Helper funct to conv char* to name? */
    origin = lookup->origin->origin;
    #ifdef WITH_IDN_SUPPORT
    if (lookup->idnin) {
        result = idn_locale_to_ace(origin, idn_origin, sizeof(idn_origin));
        check_result(result, "convert origin to IDN encoding");
        debug("trying idn origin %s", idn_origin);
        origin = idn_origin;
    }
    #endif
    len = (unsigned int) strlen(origin);
    isc_buffer_init(&b, origin, len);
    isc_buffer_add(&b, len);
    result = dns_name_fromtext(lookup->oname, &b, dns_rootname,
        0, &lookup->onamebuf);
    if (result != ISC_R_SUCCESS) {
        dns_message_puttempname(lookup->sendmsg,
            &lookup->name);
        dns_message_puttempname(lookup->sendmsg,
            &lookup->oname);
        fatal("'%s' is not in legal name syntax (%s)",
            result, lookup->oname->namepart);
    }
}
origin, 
isc_result_totext(result)); 
}
if (lookup->trace && lookup->trace_root) {
dns_name_clone(dns_rootname, lookup->name);
} else {
dns_fixedname_t fixed;
dns_name_t *name;

name = dns_fixedname_initname(&fixed);
len = (unsigned int) strlen(textname);
isc_buffer_init(&b, textname, len);
isc_buffer_add(&b, len);
result = dns_name_fromtext(name, &b, NULL, 0, NULL);
if (result == ISC_R_SUCCESS &&
!dns_name_isabsolute(name))
result = dns_name_concatenate(name,
lookup->oname,
lookup->name,
&lookup->namebuf);
else if (result == ISC_R_SUCCESS)
result = dns_name_copy(name, lookup->name,
&lookup->namebuf);
if (result != ISC_R_SUCCESS) {
dns_message_puttempname(lookup->sendmsg,
&lookup->oname);
if (result == DNS_R_NAMETOOLONG)
return (false);
fatal("%s' is not in legal name syntax (%s)",
lookup->textname,
isc_result_totext(result));
}
}
dns_message_puttempname(lookup->sendmsg, &lookup->oname);
} else {
d debug("using root origin");
if (lookup->trace && lookup->trace_root)
dns_name_clone(dns_rootname, lookup->name);
else {
len = (unsigned int) strlen(textname);
isc_buffer_init(&b, textname, len);
isc_buffer_add(&b, len);
result = dns_name_fromtext(lookup->name, &b,
 dns_rootname, 0,
 &lookup->namebuf);
}
if (result != ISC_R_SUCCESS) {
    dns_message_puttempname(lookup->sendmsg, &lookup->name);
    fatal("'%s' is not a legal name " 
          "("%s"), lookup->textname,
          isc_result_totext(result));
}

dns_name_format(lookup->name, store, sizeof(store));
dighost_trying(store, lookup);
INSIST(dns_name_isabsolute(lookup->name));

isc_random_get(&id);
lookup->sendmsg->id = (unsigned short)id & 0xFFFF;
lookup->sendmsg->opcode = lookup->opcode;
lookup->msgcounter = 0;

/*
 * If this is a trace request, completely disallow recursion after
 * looking up the root name servers, since it's meaningless for traces.
 */
if ((lookup->trace || lookup->ns_search_only) && !lookup->trace_root) {
    lookup->recurse = false;
}

if (lookup->recurse &&
    lookup->rdtype != dns_rdatatype_axfr &&
    lookup->rdtype != dns_rdatatype_ixfr) {
    debug("recursive query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_RD;
}

/* XXX aaflag */
if (lookup->aaonly) {
    debug("AA query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AA;
}

if (lookup->adflag) {
    debug("AD query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AD;
}

if (lookup->cdflag) {
    debug("CD query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_CD;
}
if (lookup->zflag) {
    debug("Z query");
    lookup->sendmsg->flags |= 0x0040U;
}

dns_message_addname(lookup->sendmsg, lookup->name,
                   DNS_SECTION_QUESTION);

if (lookup->trace && lookup->trace_root) {
    lookup->rdtype = lookup->rdtype;
    lookup->rdtype = dns_rdatatype_ns;
}

if ((lookup->rdtype == dns_rdatatype_axfr) ||
    (lookup->rdtype == dns_rdatatype_ixfr)) {
    /*
     * Force TCP mode if we're doing an axfr.
     */
    if (lookup->rdtype == dns_rdatatype_axfr) {
        lookup->doing_xfr = true;
        lookup->tcp_mode = true;
    } else if (lookup->tcp_mode) {
        lookup->doing_xfr = true;
    }
}

if (!lookup->header_only)
    add_question(lookup->sendmsg, lookup->name, lookup->rdclass,
                 lookup->rdtype);

    /* add_soa */
    if (lookup->rdtype == dns_rdatatype_ixfr)
        insert_soa(lookup);

    /* XXX Insist this? */
    lookup->tsigctx = NULL;
    lookup->querysig = NULL;
    if (tsigkey != NULL) {
        debug("initializing keys");
        result = dns_message_settsigkey(lookup->sendmsg, tsigkey);
        check_result(result, "dns_message_settsigkey");
    }

    lookup->sendspace = isc_mempool_get(commctx);
    if (lookup->sendspace == NULL)
        fatal("memory allocation failure");

    result = dns_compress_init(&cctx, -1, mctx);
check_result(result, "dns_compress_init");

dep("starting to render the message");
isc_buffer_init(&lookup->renderbuf, lookup->sendspace, COMMSIZE);
result = dns_message_renderbegin(lookup->sendmsg, &cctx,
 &lookup->renderbuf);
check_result(result, "dns_message_renderbegin");
if (lookup->udpsize > 0 || lookup->dnssec ||
 lookup->edns > -1 || lookup->ecs_addr != NULL)
{
#define MAXOPTS (EDNSOPT_OPTIONS + DNS_EDNSOPTIONS)
dns_ednsopt_t opts[MAXOPTS];
unsigned int flags;
unsigned int i = 0;

if (lookup->udpsize == 0)
lookup->udpsize = 4096;
if (lookup->edns < 0)
lookup->edns = 0;

if (lookup->nsid) {
INSIST(i < MAXOPTS);
opts[i].code = DNS_OPT_NSID;
opts[i].length = 0;
opts[i].value = NULL;
i++;
}

if (lookup->ecs_addr != NULL) {
uint8_t addr[16];
uint16_t family = 0;
uint32_t plen;
struct sockaddr *sa;
struct sockaddr_in *sin;
struct sockaddr_in6 *sin6;
size_t addrl;

sa = &lookup->ecs_addr->type.sa;
plen = lookup->ecs_addr->length;

/* Round up prefix len to a multiple of 8 */
addrl = (plen + 7) / 8;

INSIST(i < MAXOPTS);
opts[i].code = DNS_OPT_CLIENT_SUBNET;
opts[i].length = (uint16_t) addrl + 4;
check_result(result, "isc_buffer_allocate");
* XXXMU: According to RFC7871, "If there is
* no ADDRESS set, i.e., SOURCE PREFIX-LENGTH is
* set to 0, then FAMILY SHOULD be set to the
* transport over which the query is sent."
*
* However, at this point we don't know what
* transport(s) we'll be using, so we can't
* set the value now. For now, we're using
* IPv4 as the default the +subnet option
* used an IPv4 prefix, or for +subnet=0,
* and IPv6 if the +subnet option used an
* IPv6 prefix.
*
* (For future work: preserve the offset into
* the buffer where the family field is;
* that way we can update it in send_udp()
* or send_tcp_connect() once we know
* what it ought to be.)
*/
switch (sa->sa_family) {
  case AF_UNSPEC:
    INSIST(plen == 0);
    family = 1;
    break;
  case AF_INET:
    INSIST(plen <= 32);
    family = 1;
    sin = (struct sockaddr_in *) sa;
    memmove(addr, &sin->sin_addr, addrl);
    break;
  case AF_INET6:
    INSIST(plen <= 128);
    family = 2;
    sin6 = (struct sockaddr_in6 *) sa;
    memmove(addr, &sin6->sin6_addr, addrl);
    break;
  default:
    INSIST(0);
    ISC_UNREACHABLE();
}

isc_buffer_init(&b, ecsbuf, sizeof(ecsbuf));
/* family */
isc_buffer_putuint16(&b, family);
/* source prefix-length */
isc_buffer_putuint8(&b, plen);
/* scope prefix-length */
isc_buffer_putchar(&b, 0);
/* address */
if (addrlen > 0) {
/* Mask off last address byte */
if ((plen % 8) != 0)
addrlen -= 8 - (plen % 8);
isc_buffer_putmem(&b, addr, (unsigned)addrlen);
}

opts[i].value = (uint8_t *) ecsbuf;
i++;
}

if (lookup->sendcookie) {
INSIST(i < MAXOPTS);
opts[i].code = DNS_OPT_COOKIE;
if (lookup->cookie != NULL) {
isc_buffer_init(&b, cookiebuf, sizeof(cookiebuf));
result = isc_hex_decodestring(lookup->cookie, &b);
check_result(result, "isc_hex_decodestring");
opts[i].value = isc_buffer_base(&b);
opts[i].length = isc_buffer_usedlength(&b);
} else {
compute_cookie(cookie, sizeof(cookie));
opts[i].length = 8;
opts[i].value = cookie;
}
i++;
}

if (lookup->expire) {
INSIST(i < MAXOPTS);
opts[i].code = DNS_OPT_EXPIRE;
opts[i].length = 0;
opts[i].value = NULL;
i++;
}

if (lookup->ednsopts != 0) {
INSIST(i + lookup->ednsopts <= MAXOPTS);
memmove(&opts[i], lookup->ednsopts,
sizeof(dns_ednsopt_t) * lookup->ednsopts);
i += lookup->ednsopts;
}
flags = lookup->ednsflags;
flags &= ~DNS_MESSAGEEXTFLAG_DO;
if (lookup->dnssec)
flags |= DNS_MESSAGEEXTFLAG_DO;
adpt_opt(lookup->sendmsg, lookup->udpsize,
lookup->edns, flags, opts, i);
}

result = dns_message_rendersection(lookup->sendmsg,
    DNS_SECTION_QUESTION, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_rendersection(lookup->sendmsg,
    DNS_SECTION_AUTHORITY, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_renderend(lookup->sendmsg);
check_result(result, "dns_message_renderend");
debug("done rendering");

dns_compress_invalidate(&cctx);

/*
 * Force TCP mode if the request is larger than 512 bytes.
 */
if (isc_buffer_usedlength(&lookup->renderbuf) > 512)
lookup->tcp_mode = true;

lookup->pending = false;

for (serv = ISC_LIST_HEAD(lookup->my_server_list);
    serv != NULL;
    serv = ISC_LIST_NEXT(serv, link)) {
query = isc_mem_allocate(mctx, sizeof(dig_query_t));
if (query == NULL)
fatal("memory allocation failure in %s:%d",
    __FILE__, __LINE__);
    debug("create query %p linked to lookup %p",
        query, lookup);
    query->lookup = lookup;
    query->timer = NULL;
    query->waiting_connect = false;
    query->waiting_senddone = false;
    query->pending_free = false;
    query->recv_made = false;
    query->first_pass = true;
    query->first_soa_rcvd = false;
    query->second_rr_rcvd = false;
query->first_repeat_rcvd = false;
query->warn_id = true;
query->timedout = false;
query->first_rr_serial = 0;
query->second_rr_serial = 0;
query->servname = serv->servername;
query->userarg = serv->userarg;
query->rc_count = 0;
query->msg_count = 0;
query->byte_count = 0;
query->ixfr_axfr = false;
ISC_LIST_INIT(query->recvlist);
ISC_LIST_INIT(query->lengthlist);
query->sock = NULL;
query->recvspace = isc_mempool_get(commctx);
if (query->recvspace == NULL)
fatal("memory allocation failure");

isc_buffer_init(&query->recvbuf, query->recvspace, COMMSIZE);
isc_buffer_init(&query->lengthbuf, query->lengthspace, 2);
isc_buffer_init(&query->slbuf, query->slspace, 2);
query->sendbuf = lookup->renderbuf;

ISC_LINK_INIT(query, clink);
ISC_LINK_INIT(query, link);
ISC_LIST_ENQUEUE(lookup->q, query, link);

} /* XXX qrflag, print_query, etc... */
if (!ISC_LIST_EMPTY(lookup->q) && qr) {
extrabytes = 0;
dighost_printmessage(ISC_LIST_HEAD(lookup->q), lookup->sendmsg,
true);
if (lookup->stats)
printf(";; QUERY SIZE: %u\n\n",
isc_buffer_usedlength(&lookup->renderbuf));
}
return (true);

} /*
* Event handler for send completion. Track send counter, and clear out
* the query if the send was canceled.
*/
static void
send_done(isc_task_t *task, isc_event_t *event) {
isc_socketevent_t *event = (isc_socketevent_t *)event;
isc_buffer_t *b = NULL;

dig_query_t *query, *next;
dig_lookup_t *l;

REQUIRE(event->ev_type == ISC_SOCKEVENT_SENDDONE);

UNUSED(_task);

LOCK_LOOKUP;

debug("send_done()");
sendcount--;
debug("sendcount=%d", sendcount);
INSIST(sendcount >= 0);

for (b = ISC_LIST_HEAD(sevent->bufferlist);
    b != NULL;
    b = ISC_LIST_HEAD(sevent->bufferlist)) {
    ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);
    isc_mem_free(mctx, b);
}

query = event->ev_arg;
query->waiting_senddone = false;
l = query->lookup;

if (l->ns_search_only && !l->trace_root && !l->tcp_mode) {
    debug("sending next, since searching");
    next = ISC_LIST_NEXT(query, link);
    if (next != NULL)
        send_udp(next);
}

isc_event_free(&event);

if (query->pending_free)
    isc_mem_free(mctx, query);

check_if_done();
UNLOCK_LOOKUP;
}

/*%
 * Cancel a lookup, sending isc_socket_cancel() requests to all outstanding
 * IO sockets. The cancel handlers should take care of cleaning up the
 * query and lookup structures
 */
static void
cancel_lookup(dig_lookup_t *lookup) {

dig_query_t *query, *next;

d debug("cancel_lookup()");
query = ISC_LIST_HEAD(lookup->q);
while (query != NULL) {
next = ISC_LIST_NEXT(query, link);
if (query->sock != NULL) {
isc_socket_cancel(query->sock, global_task,
ISC_SOCKCANCEL_ALL);
check_if_done();
} else {
clear_query(query);
}
query = next;
}
lookup->pending = false;
lookup->retries = 0;
}

static void
bringup_timer(dig_query_t *query, unsigned int default_timeout) {
dig_lookup_t *l;
unsigned int local_timeout;
isc_result_t result;

d debug("bringup_timer()");
/*
 * If the timer already exists, that means we're calling this
 * a second time (for a retry). Don't need to recreate it,
 * just reset it.
 */
l = query->lookup;
if (ISC_LINK_LINKED(query, link) && ISC_LIST_NEXT(query, link) != NULL)
local_timeout = SERVER_TIMEOUT;
else {
if (timeout == 0)
local_timeout = default_timeout;
else
local_timeout = timeout;
}
d debug("have local timeout of %d", local_timeout);
isc_interval_set(&l->interval, local_timeout, 0);
if (query->timer != NULL)
isc_timer_detach(&query->timer);
result = isc_timer_create(timermgr, isc_timertype_once, NULL,
&l->interval, global_task, connect_timeout,
query, &query->timer);
check_result(result, "isc_timer_create");
static void
force_timeout(dig_query_t *query) {
  isc_event_t *event;

  debug("force_timeout ()");
  event = isc_event_allocate(mctx, query, ISC_TIMEREVENT_IDLE,
                              connect_timeout, query,
                              sizeof(isc_event_t));
  if (event == NULL) {
    fatal("isc_event_allocate: ",
          isc_result_totext(ISC_R_NOMEMORY));
  }
  isc_task_send(global_task, &event);

  /*
   * The timer may have expired if, for example, get_address() takes
   * long time and the timer was running on a different thread.
   * We need to cancel the possible timeout event not to confuse
   * ourselves due to the duplicate events.
   */
  if (query->timer != NULL)
    isc_timer_detach(&query->timer);
}

static void
connect_done(isc_task_t *task, isc_event_t *event);

static void
send_tcp_connect(dig_query_t *query) {
  isc_result_t result;
  dig_query_t *next;
  dig_lookup_t *l;

  debug("send_tcp_connect(%p)", query);
  l = query->lookup;
  query->waiting_connect = true;
  query->lookup->current_query = query;
  result = get_address(query->servname, port, &query->sockaddr);
  if (result != ISC_R_SUCCESS) {

/ * This servername doesn't have an address. Try the next server * by triggering an immediate 'timeout' (we lie, but the effect * is the same). */

force_timeout(query);
return;

if (!l->mapped && isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
    IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
    isc_netaddr_t netaddr;
    char buf[ISC_NETADDR_FORMATSIZE];

    isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
    isc_netaddr_format(&netaddr, buf, sizeof(buf));
    printf(";; Skipping mapped address '%s'", buf);

    query->waiting_connect = false;
    if (ISC_LINK_LINKED(query, link))
        next = ISC_LIST_NEXT(query, link);
    else
        next = NULL;
    l = query->lookup;
    clear_query(query);
    if (next == NULL) {
        printf(";; No acceptable nameservers\n");
        check_next_lookup(l);
        return;
    }
    send_tcp_connect(next);
    return;
}

INSIST(query->sock == NULL);

if (keep != NULL && isc_sockaddr_equal(&keepaddr, &query->sockaddr)) {
    sockcount++;
    isc_socket_attach(keep, &query->sock);
    query->waiting_connect = false;
    launch_next_query(query, true);
    goto search;
}

result = isc_socket_create(socketmgr,
    isc_sockaddr_pf(&query->sockaddr),
    isc_sockettype_tcp, &query->sock);
check_result(result, "isc_socket_create");
sockcount++;
debug("sockcount=%d", sockcount);
if (query->lookup->dscp != -1)
isc_socket_dscp(query->sock, query->lookup->dscp);
isc_socket_ipv6only(query->sock, !query->lookup->mapped);
if (specified_source)
result = isc_socket_bind(query->sock, &bind_address,
ISC_SOCKET_REUSEADDRESS);
else {
if ((isc_sockaddr_pf(&query->sockaddr) == AF_INET) &&
    have_ipv4)
isc_sockaddr_any(&bind_any);
else
isc_sockaddr_any6(&bind_any);
result = isc_socket_bind(query->sock, &bind_any, 0);
}
check_result(result, "isc_socket_bind");
bringup_timer(query, TCP_TIMEOUT);
result = isc_socket_connect(query->sock, &query->sockaddr,
    global_task, connect_done, query);
check_result(result, "isc_socket_connect");
search:
/*
 * If we're at the endgame of a nameserver search, we need to
 * immediately bring up all the queries. Do it here.
 */
if (l->ns_search_only && !l->trace_root) {
    debug("sending next, since searching");
    if (ISC_LINK_LINKED(query, link)) {
        next = ISC_LIST_NEXT(query, link);
        ISC_LIST_DEQUEUE(l->q, query, link);
    } else
        next = NULL;
    ISC_LIST_ENQUEUE(l->connecting, query, clink);
    if (next != NULL)
        send_tcp_connect(next);
}

static isc_buffer_t *
clone_buffer(isc_buffer_t *source) {
    isc_buffer_t *buffer;
    buffer = isc_mem_allocate(mctx, sizeof(*buffer));
    if (buffer == NULL)
fatal("memory allocation failure in %s:%d",
        __FILE__, __LINE__);
    *buffer = *source;
    return (buffer);
static void send_udp(dig_query_t *query) {
    dig_lookup_t *l = NULL;
    isc_result_t result;
    isc_buffer_t *sendbuf;
    dig_query_t *next;

debug("send_udp(%p)", query);

    l = query->lookup;
    bringup_timer(query, UDP_TIMEOUT);
    l->current_query = query;
    debug("working on lookup %p, query %p", query->lookup, query);
    if (!query->recv_made) {
        /* XXX Check the sense of this, need assertion? */
        query->waiting_connect = false;
        result = get_address(query->servname, port, &query->sockaddr);
        if (result != ISC_R_SUCCESS) {
            /* This servname doesn't have an address. */
            force_timeout(query);
            return;
        }
        if (!l->mapped &&
            isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
            IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
            isc_netaddr_t netaddr;
            char buf[ISC_NETADDR_FORMATSIZE];

            isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
            isc_netaddr_format(&netaddr, buf, sizeof(buf));
            printf(";; Skipping mapped address '%s'", buf);

            next = ISC_LIST_NEXT(query, link);
            l = query->lookup;
            clear_query(query);
            if (next == NULL) {
                printf(";; No acceptable nameservers\n");
                check_next_lookup(l);
            } else {
                send_udp(next);
            }
        }
    }
}
/*
* Send a UDP packet to the remote nameserver, possible starting the
* recv action as well. Also make sure that the timer is running and
* is properly reset.
*/
result = isc_socket_create(socketmgr,
    isc_sockaddr pf(&query->sockaddr),
    isc_sockettype_udp, &query->sock);
check_result(result, "isc_socket_create");
sockcount++;
debug("sockcount=%d", sockcount);
if (query->lookup->dscp != -1)
    isc_socket_dscp(query->sock, query->lookup->dscp);
isc_socket_ipv6only(query->sock,
    !query->lookup->mapped);
if (specified_source) {
    result = isc_socket_bind(query->sock, &bind_address,
        ISC_SOCKET_REUSEADDRESS);
} else {
    isc_sockaddr_anyofpf(&bind_any,
        isc_sockaddr pf(&query->sockaddr));
    result = isc_socket_bind(query->sock, &bind_any, 0);
}
check_result(result, "isc_socket_bind");

query->recv_made = true;
ISC_LINK_INIT(&query->recvbuf, link);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
d debug("recving with lookup=%p, query=%p, sock=%p",
    query->lookup, query, query->sock);
result = isc_socket_recvv(query->sock, &query->recvlist, 1,
    global_task, recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debug("recvcount=%d", recvcount);
}
ISC_LIST_INIT(query->sendlist);
sendbuf = clone_buffer(&query->sendbuf);
ISC_LIST_ENQUEUE(query->sendlist, sendbuf, link);
d debug("sending a request");
TIME_NOW(&query->time_sent);
INSIST(query->sock != NULL);
query->waiting_senddone = true;
result = isc_socket_sendtov2(query->sock, &query->sendlist,
    global_task, send_done, query,
    &query->sockaddr, NULL,
    ISC_SOCKFLAG_NORETRY);
check_result(result, "isc_socket_sendtov");
sendcount++;
}

/*%
* If there are more servers available for querying within 'lookup', initiate a
* TCP or UDP query to the next available server and return true; otherwise,
* return false.
*/
static bool
try_next_server(dig_lookup_t *lookup) {
  dig_query_t *current_query, *next_query;

  current_query = lookup->current_query;
  if (current_query == NULL || !ISC_LINK_LINKED(current_query, link)) {
    return (false);
  }

  next_query = ISC_LIST_NEXT(current_query, link);
  if (next_query == NULL) {
    return (false);
  }

  debug("trying next server...");

  if (lookup->tcp_mode) {
    send_tcp_connect(next_query);
  } else {
    send_udp(next_query);
  }

  return (true);
}

/*%
* IO timeout handler, used for both connect and recv timeouts. If
* retries are still allowed, either resend the UDP packet or queue a
* new TCP lookup. Otherwise, cancel the lookup.
*/
static void
connect_timeout(isc_task_t *task, isc_event_t *event) {
  dig_lookup_t *l = NULL;
  dig_query_t *query = NULL;
  UNUSED(task);
  REQUIRE(event->ev_type == ISC_TIMEREVENT_IDLE);
  debug("connect_timeout()");
LOCK_LOOKUP;
query = event->ev_arg;
l = query->lookup;
isc_event_free(&event);

INSIST(!free_now);

if (cancel_now) {
UNLOCK_LOOKUP;
return;
}

if (try_next_server(l)) {
if (l->tcp_mode) {
if (query->sock != NULL) {
isc_socket_cancel(query->sock, NULL, 
ISC_SOCKCANCEL_ALL);
} else {
clear_query(query);
}
}
UNLOCK_LOOKUP;
return;
}

if (l->tcp_mode & query->sock != NULL) {
query->timedout = true;
isc_socket_cancel(query->sock, NULL, ISC_SOCKCANCEL_ALL);
}

if (l->retries > 1) {
if (!l->tcp_mode) {
l->retries--;
ddebug("resending UDP request to first server");
send_udp(ISC_LIST_HEAD(l->q));
} else {
ddebug("making new TCP request, %d tries left", 
l->retries);
l->retries--;
requeue_lookup(l, true);
cancel_lookup(l);
check_next_lookup(l);
}
} else {
if (!l->ns_search_only) {
fputs(l->cmdline, stdout);
printf(";; connection timed out; no servers could be " 
"reached\n");
}
cancel_lookup(l);
check_next_lookup(l);
if (exitcode < 9)
exitcode = 9;
}
UNLOCK_LOOKUP;
}

/*%
 * Event handler for the TCP recv which gets the length header of TCP
 * packets. Start the next recv of length bytes.
 */
static void
tcp_length_done(isc_task_t *task, isc_event_t *event) {
isc_socketevent_t *sevent;
isc_buffer_t *b = NULL;
isc_result_t result;
dig_query_t *query = NULL;
dig_lookup_t *l, *n;
uint16_t length;

REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
INSIST(!free_now);

UNUSED(task);

dump("tcp_length_done()");

LOCK_LOOKUP;
sevent = (isc_socketevent_t *)event;
query = event->ev_arg;

recvcount--;
INSIST(recvcount > 0);

b = ISC_LIST_HEAD(sevent->bufferlist);
INSIST(b == &query->lengthbuf);
ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);

if (sevent->result == ISC_R_CANCELED) {
isc_event_free(&event);
l = query->lookup;
clear_query(query);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if (sevent->result != ISC_R_SUCCESS) {
    char sockstr[ISC_SOCKADDR_FORMATSIZE];
    isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
    printf(";; communications error to %s: %s\n", sockstr, isc_result_totext(sevent->result));
    if (keep != NULL)
        isc_socket_detach(&keep);
    l = query->lookup;
    isc_socket_detach(&query->sock);
    sockcount--;
    debug("sockcount=%d", sockcount);
    INSIST(sockcount >= 0);
    if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
        n = requeue_lookup(l, true);
        n->eoferr++;
    }
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}

length = isc_buffer_getuint16(b);
if (length == 0) {
    isc_event_free(&event);
    launch_next_query(query, false);
    UNLOCK_LOOKUP;
    return;
}

/*
 * Even though the buffer was already init'ed, we need
 * to redo it now, to force the length we want.
 */
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_init(&query->recvbuf, query->recvspace, length);
ENSURE(ISC_LIST_EMPTY(query->recvlist));
ISC_LINK_INIT(&query->recvbuf, link);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
d debug("recv with lookup=%p, query=%p", query->lookup, query);
result = isc_socket_recvv(query->sock, &query->recvlist, length, task,
    recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debug("resubmitted recv request with length %d, recvcount=%d",
    length, recvcount);
isc_event_free(&event);
UNLOCK_LOOKUP;
}

/*%
 * For transfers that involve multiple recvs (XFR's in particular),
 * launch the next recv.
 */
static void
launch_next_query(dig_query_t *query, bool include_question) {
isc_result_t result;
dig_lookup_t *l;
isc_buffer_t *buffer;

INSIST(!free_now);

ddebug("launch_next_query()");

if (!query->lookup->pending) {
ddebug("ignoring launch_next_query because !pending");
isc_socket_detach(&query->sock);
sockcount--;
ddebug("sockcount=%d", sockcount);
INSIST(sockcount >= 0);
query->waiting_connect = false;
l = query->lookup;
clear_query(query);
check_next_lookup(l);
return;
}

isc_buffer_clear(&query->slbuf);
isc_buffer_clear(&query->lengthbuf);
isc_buffer_putuint16(&query->slbuf, (uint16_t) query->sendbuf.used);
ISC_LIST_INIT(query->sendlist);
ISC_LINK_INIT(&query->slbuf, link);
if (!query->first_soa_rcvd) {
buffer = clone_buffer(&query->slbuf);
ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
if (include_question) {
buffer = clone_buffer(&query->sendbuf);
ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
}
}

ISC_LINK_INIT(&query->lengthbuf, link);
ISC_LIST_ENQUEUE(query->lengthlist, &query->lengthbuf, link);
result = isc_socket_recvv(query->sock, &query->lengthlist, 0,
    global_task, tcp_length_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debug("recvcount=%d", recvcount);
if (!query->first_soa_rcvd) {
    debug("sending a request in launch_next_query");
    TIME_NOW(&query->time_sent);
    query->waiting_senddone = true;
    result = isc_socket_sendv(query->sock, &query->sendlist,
        global_task, send_done, query);
    check_result(result, "isc_socket_sendv");
    sendcount++;
    debug("sendcount=%d", sendcount);
}
query->waiting_connect = false;
#endif
return;
}

/*
 * Event handler for TCP connect complete. Make sure the connection was
 * successful, then pass into launch_next_query to actually send the
 * question.
 */
static void
connect_done(isc_task_t *task, isc_event_t *event) {
    char sockstr[ISC_SOCKADDR_FORMATSIZE];
    isc_socketevent_t *sevent = NULL;
    dig_query_t *query = NULL, *next;
    dig_lookup_t *l;

    UNUSED(task);

    REQUIRE(event->ev_type == ISC_SOCKEVENT_CONNECT);
    INSIST(!free_now);

    debug("connect_done()");

    LOCK_LOOKUP;
    sevent = (isc_socketevent_t *)event;
    query = sevent->ev_arg;

    INSIST(query->waiting_connect);

    query->waiting_connect = false;
if (sevent->result == ISC_R_CANCELED) {
    debug("in cancel handler");
    isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
    if (query->timedout) printf(";; Connection to %s(%s) for %s failed: %s\n",
                     sockstr, query->servname,
                     query->lookup->textname,
                     isc_result_totext(ISC_R_TIMEDOUT));
    isc_socket_detach(&query->sock);
    INSIST(sockcount > 0);
    sockcount--;
    debug("sockcount=%d", sockcount);
    query->waiting_connect = false;
    isc_event_free(&event);
    l = query->lookup;
    clear_query(query);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
if (sevent->result != ISC_R_SUCCESS) {
    debug("unsuccessful connection: %s",
           isc_result_totext(sevent->result));
    isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
    if (sevent->result != ISC_R_CANCELED) printf(";; Connection to %s(%s) for %s failed: ",
                     "%s\n", sockstr,
                     query->servname, query->lookup->textname,
                     isc_result_totext(sevent->result));
    isc_socket_detach(&query->sock);
    INSIST(sockcount > 0);
    sockcount--;
    /* XXX Clean up exitcodes */
    if (exitcode < 9)
        exitcode = 9;
    debug("sockcount=%d", sockcount);
    query->waiting_connect = false;
    isc_event_free(&event);
    l = query->lookup;
    if ((l->current_query != NULL) &&
        (ISC_LINK_LINKED(l->current_query, link)))
        next = ISC_LIST_NEXT(l->current_query, link);
    else
        next = NULL;
    clear_query(query);
    if (next != NULL) {
bringup_timer(next, TCP_TIMEOUT);
send_tcp_connect(next);
} else
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
exitcode = 0;
if (keep_open) {
if (keep != NULL)
isc_socket_detach(&keep);
isc_socket_attach(query->sock, &keep);
keepaddr = query->sockaddr;
}
launch_next_query(query, true);
isc_event_free(&event);
UNLOCK_LOOKUP;
}

/*%*/
/* Check if the ongoing XFR needs more data before it's complete, using */
/* the semantics of IXFR and AXFR protocols. Much of the complexity of */
/* this routine comes from determining when an IXFR is complete. */
/* false means more data is on the way, and the recv has been issued. */
/**/
static bool
check_for_more_data(dig_query_t *query, dns_message_t *msg,isc_socketevent_t *sevent)
{
dns_rdataset_t *rdataset = NULL;
dns_rdata_t rdata = DNS_RDATA_INIT;
dns_rdata_soa_t soa;
uint32_t ixfr_serial = query->lookup->ixfr_serial, serial;
isc_result_t result;
bool ixfr = query->lookup->rdtype == dns_rdatatype_ixfr;
bool axfr = query->lookup->rdtype == dns_rdatatype_axfr;
if (ixfr)
axfr = query->ixfr_axfr;

design("check_for_more_data()");

/*
 * By the time we're in this routine, we know we're doing
 * either an AXFR or IXFR. If there's no second_rr_type,
 * then we don't yet know which kind of answer we got back
 * from the server. Here, we're going to walk through the
 * rr's in the message, acting as necessary whenever we hit
* an SOA rr.
*/

query->msg_count++;
query->byte_count += sevent->n;
result = dns_message_firstname(msg, DNS_SECTION_ANSWER);
if (result != ISC_R_SUCCESS) {
    puts("; Transfer failed.");
    return (true);
}
do {
    dns_name_t *name;
    name = NULL;
    dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
    for (rdataset = ISC_LIST_HEAD(name->list);
        rdataset != NULL;
        rdataset = ISC_LIST_NEXT(rdataset, link)) {
        result = dns_rdataset_first(rdataset);
        if (result != ISC_R_SUCCESS)
            continue;
        do {
            query->rr_count++;
            dns_rdata_reset(&rdata);
            dns_rdataset_current(rdataset, &rdata);
            /*
             * If this is the first rr, make sure
             * it's an SOA
             */
            if (!query->first_soa_rcvd &&
                (rdata.type != dns_rdatatype_soa)) {
                puts("; Transfer failed.");
                " Didn't start with SOA answer. ");
                return (true);
            }
            if (!query->second_rr_rcvd &&
                (rdata.type != dns_rdatatype_soa)) {
                query->second_rr_rcvd = true;
                query->second_rr_serial = 0;
                debug("got the second rr as nonsoa");
                axfr = query->ixfr_axfr = true;
                goto next_rdata;
            }
            /*
             * If the record is anything except an SOA
             * now, just continue on...
             */
if (rdata.type != dns_rdatatype_soa)
goto next_rdata;

/* Now we have an SOA. Work with it. */
debug("got an SOA");
result = dns_rdata_tostruct(&rdata, &soa, NULL);
check_result(result, "dns_rdata_tostruct");
serial = soa.serial;
dns_rdata_freestruct(&soa);
if (!query->first_soa_rcvd) {
query->first_soa_rcvd = true;
query->first_rr_serial = serial;
debug("this is the first serial %u",
 serial);
if (ixfr && isc_serial_ge(ixfr_serial,
 serial)) {
debug("got up to date "
  "response");
goto doexit;
}
goto next_rdata;
}
if (axfr) {
debug("doing axfr, got second SOA");
goto doexit;
}
if (!query->second_rr_rcvd) {
if (query->first_rr_serial == serial) {
debug("doing ixfr, got "
  "empty zone");
goto doexit;
}
debug("this is the second serial %u",
 serial);
query->second_rr_rcvd = true;
query->second_rr_serial = serial;
goto next_rdata;
}
/*
 * If we get to this point, we're doing an
 * IXFR and have to start really looking
 * at serial numbers.
 * /
if (query->first_rr_serial == serial) {
debug("got a match for ixfr");
if (!query->first_repeat_rcvd) {
query->first_repeat_rcvd =
true;
goto next_rdata;
}
dbg("done with ixfr");
goto doexit;
}
dbg("meaningless soa %u", serial);
next_rdata:
result = dns_rdataset_next(rdataset);
} while (result == ISC_R_SUCCESS);
result = dns_message_nextname(msg, DNSSECTION_ANSWER);
} while (result == ISC_R_SUCCESS);
launch_next_query(query, false);
return (false);
doexit:
dighost_received(sevent->n, &sevent->address, query);
return (true);
}

static void
process_cookie(dig_lookup_t *l, dns_message_t *msg, 
    isc_buffer_t *optbuf, size_t optlen)
{
    char bb[256];
    isc_buffer_t hexbuf;
    size_t len;
    const unsigned char *sent;
    bool copy = true;
    isc_result_t result;

    if (l->cookie != NULL) {
        isc_buffer_init(&hexbuf, bb, sizeof(bb));
        result = isc_hex_decodestring(l->cookie, &hexbuf);
        check_result(result, "isc_hex_decodestring");
        sent = isc_buffer_base(&hexbuf);
        len = isc_buffer_usedlength(&hexbuf);
    } else {
        sent = cookie;
        len = sizeof(cookie);
    }

    INSIST(msg->cc_ok == 0 && msg->cc_bad == 0);
    if (len >= 8 && optlen >= 8U) {
        if (isc_safe_memequal(isc_buffer_current(optbuf), sent, 8)) {
            msg->cc_ok = 1;
        } else {
            printf(";; Warning: Client COOKIE mismatch\n");
            msg->cc_bad = 1;
        }
    }
}
copy = false;
}
} else {
printf(";; Warning: COOKIE bad token (too short)\n");
msg->cc_bad = 1;
copy = false;
}
if (copy) {
isc_region_t r;

r.base = isc_buffer_current(optbuf);
r.length = (unsigned int)optlen;
isc_buffer_init(&hexbuf, servercookie, sizeof(servercookie));
result = isc_hex_totext(&r, 2, "", &hexbuf);
check_result(result, "isc_hex_totext");
if (isc_buffer_availablelength(&hexbuf) > 0) {
isc_buffer_putuint8(&hexbuf, 0);
l->cookie = servercookie;
}
}
isc_buffer_forward(optbuf, (unsigned int)optlen);
}

static void
process_opt(dig_lookup_t *l, dns_message_t *msg) {
dns_rdata_t rdata;
isc_result_t result;
isc_buffer_t optbuf;
uint16_t optcode, optlen;
dns_rdataset_t *opt = msg->opt;
bool seen_cookie = false;

result = dns_rdataset_first(opt);
if (result == ISC_R_SUCCESS) {
dns_rdata_init(&rdata);
dns_rdataset_current(opt, &rdata);
isc_buffer_init(&optbuf, rdata.data, rdata.length);
isc_buffer_add(&optbuf, rdata.length);
while (isc_buffer_remaininglength(&optbuf) >= 4) {
  optcode = isc_buffer_getuint16(&optbuf);
  optlen = isc_buffer_getuint16(&optbuf);
  switch (optcode) {
  case DNS_OPT_COOKIE:
    /*
    * Only process the first cookie option.
    */
    if (seen_cookie) {
      isc_buffer_forward(&optbuf, optlen);
    } else {
      printf(";; Warning: COOKIE bad token (too short)\n");
      msg->cc_bad = 1;
      copy = false;
      }
  } if (copy) {
    isc_region_t r;
    
    r.base = isc_buffer_current(optbuf);
    r.length = (unsigned int)optlen;
    isc_buffer_init(&hexbuf, servercookie, sizeof(servercookie));
    result = isc_hex_totext(&r, 2, "", &hexbuf);
    check_result(result, "isc_hex_totext");
    if (isc_buffer_availablelength(&hexbuf) > 0) {
      isc_buffer_putuint8(&hexbuf, 0);
      l->cookie = servercookie;
    }
    }
    isc_buffer_forward(optbuf, (unsigned int)optlen);
  } 
}
break;
}
process_cookie(l, msg, &optbuf, optlen);
seen_cookie = true;
break;
default:
isc_buffer_forward(&optbuf, optlen);
break;
}
#
}
}
}

static int
ednsvers(dns_rdataset_t *opt) {
return ((opt->ttl >> 16) & 0xff);
}

/ *%
* Event handler for recv complete. Perform whatever actions are necessary,
* based on the specifics of the user's request.
*/
static void
recv_done(isc_task_t *task, isc_event_t *event) {
isc_socketevent_t *sevent = NULL;
dig_query_t *query = NULL;
isc_buffer_t *b = NULL;
dns_message_t *msg = NULL;
#ifdef DIG_SIGCHASE
dig_message_t *chase_msg = NULL;
dig_message_t *chase_msg2 = NULL;
#endif
isc_result_t result;
dig_lookup_t *n, *l;
bool docancel = false;
bool match = true;
bool done_process_opt = false;
unsigned int parseflags;
dns_messageid_t id;
unsigned int msgflags;
#ifdef DIG_SIGCHASE
dns_message_t *msg_temp = NULL;
isc_region_t r;
isc_buffer_t *buf = NULL;
#endif
int newedns;

dns_message_t *msg_temp = NULL;
isc_region_t r;
isc_buffer_t *buf = NULL;
#endif
int newedns;
UNUSED(task);
INSIST(!free_now);

diagnostic("recv_done()");

LOCK_LOOKUP;
recvcount--;  
debug("recvcount=%d", recvcount);
INSIST(recvcount >= 0);

query = event->ev_arg;
TIME_NOW(&query->time_recv);
diagnostic("lookup=%p, query=%p", query->lookup, query);

l = query->lookup;

REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
sevent = (isc_socketevent_t *)event;

b = ISC_LIST_HEAD(sevent->bufferlist);
INSIST(b == &query->recvbuf);
ISC_LIST_DEQUEUE(sevent->bufferlist, &query->recvbuf, link);

if (((!l->tcp_mode) && (query->timer != NULL))
    isc_timer_touch(query->timer);
else if (!l->pending && !l->ns_search_only || cancel_now) {
    diagnostic("no longer pending. Got %s",
        isc_result_totext(sevent->result));
    query->waiting_connect = false;
}

isc_event_free(&event);
clear_query(query);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;

if (sevent->result != ISC_R_SUCCESS) {
    if (sevent->result == ISC_R_CANCELED) {
        diagnostic("in recv cancel handler");
        query->waiting_connect = false;
    } else {
        fprintf(";; communications error: %s\n",
            isc_result_totext(sevent->result));
        if (keep != NULL)
            isc_socket_detach(&keep);
        isc_socket_detach(&query->sock);
    }
}
sockcount--;
dbug("sockcount=%d", sockcount);
INSIST(sockcount >= 0);
}
if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
    n = requeue_lookup(l, true);
n->eoferr++;
}
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
if (!l->tcp_mode &&
    !isc_sockaddr_compare(&sevent->address, &query->sockaddr,
    ISC_SOCKADDR_CMPADDR|
    ISC_SOCKADDR_CMPPORT|
    ISC_SOCKADDR_CMPSCOPE|
    ISC_SOCKADDR_CMPSCOPEZERO)); {
    char buf1[ISC_SOCKADDR_FORMATSIZE];
    char buf2[ISC_SOCKADDR_FORMATSIZE];
    isc_sockaddr_t any;

    if (isc_sockaddr_pf(&query->sockaddr) == AF_INET)
        isc_sockaddr<any>(&any);
    else
        isc_sockaddr<any6>(&any);

    /*
    * We don't expect a match when the packet is
    * sent to 0.0.0.0, :: or to a multicast addresses.
    * XXXMPA broadcast needs to be handled here as well.
    */
    if (isc_sockaddr_eqaddr(&query->sockaddr, &any) &&
        !isc_sockaddr_ismulticast(&query->sockaddr) ||
        isc_sockaddr_getport(&query->sockaddr) !=
        isc_sockaddr_getport(&sevent->address)) {
        isc_sockaddr_format(&sevent->address, buf1, sizeof(buf1));
        isc_sockaddr_format(&query->sockaddr, buf2, sizeof(buf2));
        printf(";; reply from unexpected source: %s, ";
        " expected %s\n", buf1, buf2);
        match = false;
    }
result = dns_message_peekheader(b, &id, &msgflags);
if (result != ISC_R_SUCCESS || l->sendmsg->id != id) {
    match = false;
if (l->tcp_mode) {
    bool fail = true;
if (result == ISC_R_SUCCESS) {
    if (!query->first_soa_rcvd ||
        query->warn_id)
        printf(";; %s: ID mismatch: ",
            query->first_soa_rcvd ?
                "WARNING" : "ERROR",
            l->sendmsg->id, id);
if (query->first_soa_rcvd)
    fail = false;
query->warn_id = false;
} else
    printf(";; ERROR: short ",
            "(< header size) message\n");
if (fail) {
    isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
match = true;
} else if (result == ISC_R_SUCCESS)
    printf(";; Warning: ID mismatch: ",
            "expected ID %u, got %u\n", l->sendmsg->id, id);
else
    printf(";; Warning: short ",
            "(< header size) message received\n");
}
if (result == ISC_R_SUCCESS && (msgflags & DNS_MESSAGEFLAG_QR) == 0)
    printf(";; Warning: query response not set\n");
if (!match)
goto udp_mismatch;
result = dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE, &msg);
check_result(result, "dns_message_create");
if (tsigkey != NULL) {
if (l->querysig == NULL) {
    debug("getting initial querysig");
    result = dns_message_getquerytsig(l->sendmsg, mctx,
    &l->querysig);
    check_result(result, "dns_message_getquerytsig");
}
result = dns_message_setquerytsig(msg, l->querysig);
check_result(result, "dns_message_setquerytsig");
result = dns_message_settsigkey(msg, tsigkey);
check_result(result, "dns_message_settsigkey");
msg->tsigctx = l->tsigctx;
l->tsigctx = NULL;
if (l->msgcounter != 0)
    msg->tcp_continuation = 1;
l->msgcounter++;
}

d debug("before parse starts");
parseflags = DNS_MESSAGEPARSE_PRESERVEORDER;
#ifdef DIG_SIGCHASE
if (!l->sigchase)
    do_sigchase = false;
else
    do_sigchase = true;
#endif
if (l->besteffort)
    parseflags |= DNS_MESSAGEPARSE_BESTEFFORT;
    parseflags |= DNS_MESSAGEPARSE_IGNORETRUNCATION;
result = dns_message_parse(msg, b, parseflags);
if (result == DNS_R_RECOVERABLE) {
    printf(";; Warning: Message parser reports malformed 
    "message packet\n");
    result = ISC_R_SUCCESS;
}
if (result != ISC_R_SUCCESS) {
    printf(";; Got bad packet: %s\n", isc_result_totext(result));
    hex_dump(b);
    query->waiting_connect = false;
    dns_message_destroy(&msg);
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
if (msg->counts[DNS_SECTION_QUESTION] != 0) {
    match = true;
    for (result = dns_message_firstname(msg, DNS_SECTION_QUESTION);
        result == ISC_R_SUCCESS && match;
        result = dns_message_nextname(msg, DNS_SECTION_QUESTION)) {
        dns_name_t *name = NULL;
        dns_rdataset_t *rdataset;
        dns_message_currentname(msg, DNS_SECTION_QUESTION, &name);
        for (rdataset = ISC_LIST_HEAD(name->list);
            rdataset != NULL;
            rdataset = ISC_LIST_NEXT(rdataset, link)) {
            if (!match) {
                dns_message_destroy(&msg);
                if (l->tcp_mode) {
                    isc_event_free(&event);
                    clear_query(query);
                    cancel_lookup(l);
                    check_next_lookup(l);
                    UNLOCK_LOOKUP;
                    return;
                } else
                    goto udp_mismatch;
            }
        }
    }
}

if (match) {
    dns_message_destroy(&msg);
    if (l->tcp_mode) {
        isc_event_free(&event);
        clear_query(query);
        cancel_lookup(l);
        check_next_lookup(l);
        UNLOCK_LOOKUP;
        return;
    } else
        goto udp_mismatch;
}
if (msg->rcode == dns_rcode_badvers && msg->opt != NULL &&
    (newedns = ednsvers(msg->opt)) < l->edns && l->ednsneg) {
    /*
     * Add minimum EDNS version required checks here if needed.
     */
    if (l->comments)
        printf(";; BADVERS, retrying with EDNS version %u\n",
            (unsigned int)newedns);
    l->edns = newedns;
    n = requeue_lookup(l, true);
    if (l->trace && l->trace_root)
        n->rdtype = l->qrdtype;
    dns_message_destroy(&msg);
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
if ((msg->flags & DNS_MESSAGEFLAG_TC) != 0 &&
    !l->ignore && !l->tcp_mode) {
    if (l->cookie == NULL && l->sendcookie && msg->opt != NULL)
        process_opt(l, msg);
    if (l->comments)
        printf(";; Truncated, retrying in TCP mode.\n");
    n = requeue_lookup(l, true);
    n->tcp_mode = true;
    if (l->trace && l->trace_root)
        n->rdtype = l->qrdtype;
    dns_message_destroy(&msg);
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
if (msg->rcode == dns_rcode_badcookie && !l->tcp_mode &&
    l->sendcookie && !l->tcp_mode) {
    process_opt(l, msg);
    if (msg->cc_ok) {
        if (l->comments)
            printf(";; BADCOOKIE, retrying%s\n",
                l->seenbadcookie ? " in TCP mode" : "");
        n = requeue_lookup(l, true);
        if (l->seenbadcookie)
            n->tcp_mode = true;
n->seenbadcookie = true;
if (l->trace && l->trace_root)
n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
done_process_opt = true;
}
if ((msg->rcode == dns_rcode_servfail && !l->servfail_stops) ||
    (check_ra && (msg->flags & DNS_MESSAGEFLAG_RA) == 0 && l->recurse))
{
dig_query_t *next = ISC_LIST_NEXT(query, link);
if (l->current_query == query)
l->current_query = NULL;
if (next != NULL) {
debbug("sending query %p\n", next);
if (l->tcp_mode)
send_tcp_connect(next);
else
    send_udp(next);
    }
/*
 * If our query is at the head of the list and there
 * is no next, we're the only one left, so fall
 * through to print the message.
 */
if ((ISC_LIST_HEAD(l->q) != query) ||
    (ISC_LIST_NEXT(query, link) != NULL)) {
if (l->comments)
    printf(";; Got %s from %s, ",
           "trying next server\n",
           msg->rcode == dns_rcode_servfail ?
           "SERVFAIL reply" :
           "recursion not available",
           query->servname);
clear_query(query);
check_next_lookup(l);
dns_message_destroy(&msg);
isc_event_free(&event);
UNLOCK_LOOKUP;
return;
}
if (tsigkey != NULL) {
result = dns_tsig_verify(&query->recvbuf, msg, NULL, NULL);
if (result != ISC_R_SUCCESS) {
printf(";; Couldn't verify signature: %s\n",
isc_result_totext(result));
validated = false;
}
l->tsigctx = msg->tsigctx;
msg->tsigctx = NULL;
if (l->querysig != NULL) {
debug("freeing querysig buffer %p", l->querysig);
isc_buffer_free(&l->querysig);
}
result = dns_message_getquerytsig(msg, mctx, &l->querysig);
check_result(result,"dns_message_getquerytsig");
}
extrabytes = isc_buffer_remaininglength(b);
debug("after parse");
if (l->doing_xfr && l->xfr_q == NULL) {
l->xfr_q = query;
/*
* Once we are in the XFR message, increase
* the timeout to much longer, so brief network
* outages won't cause the XFR to abort
*/
if (timeout != INT_MAX && query->timer != NULL) {
unsigned int local_timeout;
if (timeout == 0) {
if (l->tcp_mode)
local_timeout = TCP_TIMEOUT * 4;
else
local_timeout = UDP_TIMEOUT * 4;
} else {
if (timeout < (INT_MAX / 4))
local_timeout = timeout * 4;
else
local_timeout = INT_MAX;
}
debug("have local timeout of %d", local_timeout);
isc_interval_set(&l->interval, local_timeout, 0);
result = isc_timer_reset(query->timer,
isc_timertype_once,
NULL,
&l->interval,

Open Source Used In MSX SD-WAN Service Pack 3.8.0624


false);
check_result(result, "isc_timer_reset");
}

if (l->done_process_opt) {
if (l->cookie != NULL) {
if (msg->opt == NULL) {
printf(";; expected opt record in response\n");
} else {
process_opt(l, msg);
}
} else if (l->sendcookie && msg->opt != NULL) {
process_opt(l, msg);
}
}

if (!l->doing_xfr || l->xfr_q == query) {
if (msg->rcode == dns_rcode_nxdomain &&
   (l->origin != NULL || l->need_search)) {
if (l->next_origin(query->lookup) || showsearch) {
dighost_printmessage(query, msg, true);
dighost_received(b->used, &sevent->address, query);
} else if (!l->trace && !l->ns_search_only) {
#ifdef DIG_SIGCHASE
if (!do_sigchase)
#endif
dighost_printmessage(query, msg, true);
} else if (l->trace) {
int nl = 0;
int count = msg->counts[DNS_SECTION_ANSWER];

ddebug("in TRACE code");
if (!l->ns_search_only)
dighost_printmessage(query, msg, true);

l->rdtype = l->qrdtype;
if (l->trace_root || (l->ns_search_only && count > 0)) {
if (!l->trace_root)
l->rdtype = dns_rdatatype_soa;
nl = followup_lookup(msg, query,
   DNS_SECTION_ANSWER);
l->trace_root = false;
} else if (count == 0)
   nl = followup_lookup(msg, query,
   DNS_SECTION_AUTHORITY);
if (nl == 0)
docancel = true;
} else {
  debug("in NSSEARCH code");

  if (l->trace_root) {
    /*
    * This is the initial NS query.
    */
    int nl;

    l->rdtype = dns_rdatatype_soa;
    nl = followup_lookup(msg, query,
      DNS_SECTION_ANSWER);
    if (nl == 0)
      docancel = true;
    l->trace_root = false;
    usesearch = false;
  } else
    #ifdef DIG_SIGCHASE
    if (!do_sigchase)
      #endif
dighost_printmessage(query, msg, true);
  }
  #ifdef DIG_SIGCHASE
  if (do_sigchase) {
    chase_msg = isc_mem_allocate(mctx,
      sizeof(dig_message_t));
    if (chase_msg == NULL) {
      fatal("Memory allocation failure in %s:%d",
        __FILE__, __LINE__);
    }
    ISC_LIST_INITANDAPPEND(chase_message_list, chase_msg,
      link);
    if (dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE,
      &msg_temp) != ISC_R_SUCCESS) {
      fatal("dns_message_create in %s:%d",
        __FILE__, __LINE__);
    }

    isc_buffer_usedregion(b, &r);
    result = isc_buffer_allocate(mctx, &buf, r.length);

    check_result(result, "isc_buffer_allocate");
    result = isc_buffer_copyregion(buf, &r);
    check_result(result, "isc_buffer_copyregion");

    result = dns_message_parse(msg_temp, buf, 0);

    isc_buffer_free(&buf);
chase_msg->msg = msg_temp;

chase_msg2 = isc_mem_allocate(mctx,
    sizeof(dig_message_t));
if (chase_msg2 == NULL) {
    fatal("Memory allocation failure in %s:%d",
          __FILE__, __LINE__);
}
ISC_LIST_INITANDAPPEND(chase_message_list2, chase_msg2,
    link);
chase_msg2->msg = msg;
}
#endif

#ifdef DIG_SIGCHASE
if (l->sigchase && ISC_LIST_EMPTY(lookup_list)) {
    sigchase(msg_temp);
}
#endif

if (l->pending)
    debug("still pending.");
if (l->doing_xfr) {
    if (query != l->xfr_q) {
        dns_message_destroy(&msg);
        isc_event_free(&event);
        query->waiting_connect = false;
        UNLOCK_LOOKUP;
        return;
    }
    if (!docancel)
        docancel = check_for_more_data(query, msg, sevent);
    if (docancel) {
        dns_message_destroy(&msg);
        clear_query(query);
        cancel_lookup(l);
        check_next_lookup(l);
    } else {

    if (msg->rcode == dns_rcode_noerror || l->origin == NULL) {

#ifdef DIG_SIGCHASE
    if (!l->sigchase)
        #endif
    dighost_received(b->used, &sevent->address, query);
    }

if (!query->lookup->ns_search_only)
  query->lookup->pending = false;
if (!query->lookup->ns_search_only ||
    query->lookup->trace_root || docancel) {
  #ifdef DIG_SIGCHASE
  if (!do_sigchase)
    #endif
  dns_message_destroy(&msg);

cancel_lookup(l);
}
clear_query(query);
check_next_lookup(l);
}
if (msg != NULL) {
  #ifdef DIG_SIGCHASE
  if (do_sigchase)
    msg = NULL;
  else
    #endif
  dns_message_destroy(&msg);
}
isc_event_free(&event);
UNLOCK_LOOKUP;
return;

udp_mismatch:
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_init(&query->recvbuf, query->recvspace, COMMSIZE);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
result = isc_socket_recvv(query->sock, &query->recvlist, 1,
  global_task, recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
isc_event_free(&event);
UNLOCK_LOOKUP;
return;
}
/*%
 * Turn a name into an address, using system-supplied routines. This is
 * used in looking up server names, etc... and needs to use system-supplied
 * routines, since they may be using a non-DNS system for these lookups.
 */
isc_result_t
get_address(char *host, in_port_t myport, isc_sockaddr_t *sockaddr) {
  int count;

isc_result_t result;
bool is_running;

is_running = isc_app_isrunning();
if (is_running)
    isc_app_block();
result = bind9_getaddresses(host, myport, sockaddr, 1, &count);
if (is_running)
    isc_app_unblock();
if (result != ISC_R_SUCCESS)
    return (result);

INSIST(count == 1);

return (ISC_R_SUCCESS);
}

int
getaddresses(dig_lookup_t *lookup, const char *host, isc_result_t *resultp) {
    isc_result_t result;
    isc_sockaddr_t sockaddr[DIG_MAX_ADDRESSES];
    isc_netaddr_t netaddr;
    int count, i;
    dig_server_t *srv;
    char tmp[ISC_NETADDR_FORMATSIZE];

    result = bind9_getaddresses(host, 0, sockaddr,
        DIG_MAX_ADDRESSES, &count);
    if (resultp != NULL)
        *resultp = result;
    if (result != ISC_R_SUCCESS) {
        if (resultp == NULL)
            fatal("couldn't get address for '%s': %s",
                host, isc_result_totext(result));
        return (0);
    }
    for (i = 0; i < count; i++) {
        isc_netaddr_fromsockaddr(&netaddr, &sockaddr[i]);
        isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
        srv = make_server(tmp, host);
        ISC_LIST_APPEND(lookup->my_server_list, srv, link);
    }

    return (count);
}

/*%
/* Initiate either a TCP or UDP lookup */

void
do_lookup(dig_lookup_t *lookup) {
  dig_query_t *query;

  REQUIRE(lookup != NULL);

dbg("do_lookup()");
  lookup->pending = true;
  query = ISC_LIST_HEAD(lookup->q);
  if (query != NULL) {
    if (lookup->tcp_mode)
      send_tcp_connect(query);
    else
      send_udp(query);
  }
}

/*%
* Start everything in action upon task startup.
*/

void
onrun_callback(isc_task_t *task, isc_event_t *event) {
  UNUSED(task);

  isc_event_free(&event);
  LOCK_LOOKUP;
  start_lookup();
  UNLOCK_LOOKUP;
}

/*%
* Make everything on the lookup queue go away. Mainly used by the
* SIGINT handler.
*/

void
cancel_all(void) {
  dig_lookup_t *l, *n;
  dig_query_t *q, *nq;

  dbg("cancel_all()");

  LOCK_LOOKUP;
  if (free_now) {
    UNLOCK_LOOKUP;
    return;
  }
}
cancel_now = true;
if (current_lookup != NULL) {
    for (q = ISC_LIST_HEAD(current_lookup->q);
         q != NULL;
         q = nq)
    {
        nq = ISC_LIST_NEXT(q, link);
        debug("canceling pending query %p, belonging to %p",
               q, current_lookup);
        if (q->sock != NULL)
            isc_socket_cancel(q->sock, NULL,
                               ISC_SOCKCANCEL_ALL);
        else
            clear_query(q);
    }
    for (q = ISC_LIST_HEAD(current_lookup->connecting);
         q != NULL;
         q = nq)
    {
        nq = ISC_LIST_NEXT(q, clink);
        debug("canceling connecting query %p, belonging to %p",
               q, current_lookup);
        if (q->sock != NULL)
            isc_socket_cancel(q->sock, NULL,
                               ISC_SOCKCANCEL_ALL);
        else
            clear_query(q);
    }
    l = ISC_LIST_HEAD(lookup_list);
    while (l != NULL) {
        n = ISC_LIST_NEXT(l, link);
        ISC_LIST_DEQUEUE(lookup_list, l, link);
        try_clear_lookup(l);
        l = n;
    }
    UNLOCK_LOOKUP;
}

/*%
* Destroy all of the libs we are using, and get everything ready for a
* clean shutdown.
* /
*/
void
destroy_libs(void) {
    #ifdef DIG_SIGCHASE
    void * ptr;
    dig_message_t *chase_msg;
    */
}
#endif
#endif WITH_IDN_SUPPORT
isc_result_t result;
#endif

if (keep != NULL)
isc_socket_detach(&keep);
debug("destroy_libs()");
if (global_task != NULL) {
  debug("freeing task");
  isc_task_detach(&global_task);
}
/*
 * The taskmgr_destroy() call blocks until all events are cleared
 * from the task.
 */
if (taskmgr != NULL) {
  debug("freeing taskmgr");
  isc_taskmgr_destroy(&taskmgr);
}
LOCK_LOOKUP;
REQUIRE(ockcount == 0);
REQUIRE(recvcount == 0);
REQUIRE(sendcount == 0);

INSIST(ISC_LIST_HEAD(lookup_list) == NULL);
INSIST(current_lookup == NULL);
INSIST(!free_now);

free_now = true;

lwres_conf_clear(lwctx);
lwres_context_destroy(&lwctx);

flush_server_list();
clear_searchlist();

#endif WITH_IDN_SUPPORT
result = dns_name_settotextfilter(NULL);
check_result(result, "dns_name_settotextfilter");
#endif
dns_name_destroy();

if (commctx != NULL) {
  debug("freeing commctx");
  isc_mempool_destroy(&commctx);
}
if (socketmgr != NULL) {
    debug("freeing socketmgr");
    isc_socketmgr_destroy(&socketmgr);
}
if (timermgr != NULL) {
    debug("freeing timermgr");
    isc_timermgr_destroy(&timermgr);
}
if (tsigkey != NULL) {
    debug("freeing key %p", tsigkey);
    dns_tsigkey_detach(&tsigkey);
}
if (namebuf != NULL)
    isc_buffer_free(&namebuf);

if (is_dst_up) {
    debug("destroy DST lib");
    dst_lib_destroy();
    is_dst_up = false;
}
if (entp != NULL) {
    debug("detach from entropy");
    isc_entropy_detach(&entp);
}

UNLOCK_LOOKUP;
DESTROYLOCK(&lookup_lock);
#ifdef DIG_SIGCHASE
    debug("Destroy the messages kept for sigchase");
    /* Destroy the messages kept for sigchase */
    chase_msg = ISC_LIST_HEAD(chase_message_list);
    while (chase_msg != NULL) {
        INSIST(chase_msg->msg != NULL);
        dns_message_destroy(&(chase_msg->msg));
        ptr = chase_msg;
        chase_msg = ISC_LIST_NEXT(chase_msg, link);
        isc_mem_free(mctx, ptr);
    }
    chase_msg = ISC_LIST_HEAD(chase_message_list2);
    while (chase_msg != NULL) {
        INSIST(chase_msg->msg != NULL);
        dns_message_destroy(&(chase_msg->msg));
        ptr = chase_msg;
        chase_msg = ISC_LIST_NEXT(chase_msg, link);
    }
#endif
isc_mem_free(mctx, ptr);
}
if (dns_name_dynamic(&chase_name))
free_name(&chase_name);
#if DIG_SIGCHASE_TD
if (dns_name_dynamic(&chase_current_name))
free_name(&chase_current_name);
if (dns_name_dynamic(&chase_authority_name))
free_name(&chase_authority_name);
#endif
#if DIG_SIGCHASE_BU
if (dns_name_dynamic(&chase_signame))
free_name(&chase_signame);
#endif
#endif
dbg("Removing log context");
isc_log_destroy(&lctx);

dbg("Destroy memory");
if (memdebugging != 0)
isc_mem_stats(mctx, stderr);
if (mctx != NULL)
isc_mem_destroy(&mctx);
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
output_filter(isc_buffer_t *buffer, unsigned int used_org,
bool absolute)
{
char tmp1[MAXDLEN], tmp2[MAXDLEN];
size_t fromlen, tolen;
bool end_with_dot;
isc_result_t result;

/*
 * Copy contents of 'buffer' to 'tmp1', supply trailing dot
 * if 'absolute' is true, and terminate with NUL.
 */
fromlen = isc_buffer_usedlength(buffer) - used_org;
if (fromlen >= MAXDLEN)
return(ISC_R_SUCCESS);
memmove(tmp1, (char *)isc_buffer_base(buffer) + used_org, fromlen);
end_with_dot = (tmp1[fromlen - 1] == '.') ? true : false;
if (absolute && !end_with_dot) {
fromlen++;

if (fromlen >= MAXDLEN)
return (ISC_R_SUCCESS);
tmp1[fromlen - 1] = ' '; 
}

tmp1[fromlen] = '0';

/*
 * Convert contents of 'tmp1' to local encoding.
 */
result = idn_ace_to_locale(tmp1, tmp2, sizeof(tmp2));
if (result != ISC_R_SUCCESS) {
return (ISC_R_SUCCESS);
}

/*
 * Copy the converted contents in 'tmp1' back to 'buffer'.
 * If we have appended trailing dot, remove it.
 */
tolen = strlen(tmp2);
if (absolute && !end_with_dot && tmp2[tolen - 1] == '.

tolen--;

if (isc_buffer_length(buffer) < used_org + tolen)
return (ISC_R_NOSPACE);

isc_buffer_subtract(buffer, isc_buffer_usedlength(buffer) - used_org);
memmove(isc_buffer_used(buffer), tmp2, tolen);
isc_buffer_add(buffer, (unsigned int)tolen);

return (ISC_R_SUCCESS);
}
#endif

#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
static void
idnkit_check_result(idn_result_t result, const char *msg)
{
if (result != idn_success) {
fatal("%s: %s", msg, idn_result_tostring(result));
}
}

static void
idn_initialize(void)
{
result = idn_nameinit(1);

/* Create configuration context. */
result = idn_result_t result;

/* Convert contents of 'tmp1' to local encoding. */
result = idn_ace_to_locale(tmp1, tmp2, sizeof(tmp2));
if (result != ISC_R_SUCCESS) {
return (ISC_R_SUCCESS);
}

/* Copy the converted contents in 'tmp1' back to 'buffer'.
 * If we have appended trailing dot, remove it.
 */
tolen = strlen(tmp2);
if (absolute && !end_with_dot && tmp2[tolen - 1] == '.

tolen--;

if (isc_buffer_length(buffer) < used_org + tolen)
return (ISC_R_NOSPACE);

isc_buffer_subtract(buffer, isc_buffer_usedlength(buffer) - used_org);
memmove(isc_buffer_used(buffer), tmp2, tolen);
isc_buffer_add(buffer, (unsigned int)tolen);

return (ISC_R_SUCCESS);
}
#endif
#endif
idnkit_check_result(result, "idnkit api initialization failed");
return (ISC_R_SUCCESS);

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
    char utf8_textname[MXNAME];
    idn_result_t result;

    result = idn_encodename(IDN_LOCALCONV | IDN_DELIMMAP, from,
        utf8_textname, sizeof(utf8_textname));
    idnkit_check_result(result, "idnkit idn_encodename to utf8 failed");

    result = idn_encodename(idnoptions | IDN_LOCALMAP | IDN_NAMEPREP | IDN_IDNCONV | IDN_LENCHECK,
        utf8_textname, to, tolen);
    idnkit_check_result(result, "idnkit idn_encodename to idn failed");
    return (ISC_R_SUCCESS);
}

static isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
    idn_result_t result;

    result = idn_decodename(IDN_DECODE_APP, from, to, tolen);
    if (result != idn_success) {
        debug("idnkit idn_decodename failed: %s",
            idn_result_tostring(result));
        return (ISC_R_FAILURE);
    }
    return (ISC_R_SUCCESS);
}
#endif /* WITH_IDNKIT */

#ifdef WITH_LIBIDN2
static void
idn_initialize(void) {
}

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
    int res;
    char *tmp_str = NULL;

    res = idn2_to_ascii_lz(from, &tmp_str, IDN2_NONTRANSITIONAL|IDN2_NFC_INPUT);
    if (res == IDN2_DISALLOWED) {
        res = idn2_to_ascii_lz(from, &tmp_str, IDN2_TRANSITIONAL|IDN2_NFC_INPUT);
    }
}
if (res == IDN2_OK) {
/*
 * idn2_to_ascii_lz() normalizes all strings to lower case,
 * but we generally don't want to lowercase all input strings;
 * make sure to return the original case if the two strings
 * differ only in case
 */
 if (!strcasecmp(from, tmp_str)) {
 if (strlen(from) >= tolen) {
 debug("from string is too long");
 idn2_free(tmp_str);
 return ISC_R_NOSPACE;
 }
 idn2_free(tmp_str);
 (void) strlcpy(to, from, tolen);
 return ISC_R_SUCCESS;
 }
/* check the length */
 if (strlen(tmp_str) >= tolen) {
 debug("ACE string is too long");
 idn2_free(tmp_str);
 return ISC_R_NOSPACE;
 }
 (void) strlcpy(to, tmp_str, tolen);
 idn2_free(tmp_str);
 return ISC_R_SUCCESS;
 }

fatal("'%s' is not a legal IDN name (%s), use +noidnin", from, idn2_strerror(res));
return ISC_R_FAILURE;
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
 int res;
 char *utf8_src, *tmp_str = NULL;
 /*
 * We need to:
 * 
 * 1) check whether 'from' is a valid IDNA2008 name,
 * 2) if it is, output it in the current locale's character encoding.
 * 
 * Unlike idn2_to_ascii_*(), idn2_to_unicode_*() functions are unable
 * to perform IDNA2008 validity checks. Thus, we need to decode any
* Punycode in 'from', check if the resulting name is a valid IDNA2008 name, and only once we ensure it is, output that name in the current locale's character encoding.

* We could just use idn2_to_unicode_8zlz() + idn2_to_ascii_lz(), but then we would not be able to universally tell invalid names and character encoding errors apart (if the current locale uses ASCII for character encoding, the former function would fail even for a valid IDNA2008 name, as long as it contained any non-ASCII character). Thus, we need to take a longer route.

* First, convert 'from' to UTF-8, ignoring the current locale.

```
res = idn2_to_unicode_8z8z(from, &utf8_src, 0);
if (res != IDN2_OK) {
fatal("Bad ACE string '%s' (%s), use +noidnout",
    from, idn2_strerror(res));
}
```

* Then, check whether decoded 'from' is a valid IDNA2008 name.

```
res = idn2_to_ascii_8z(utf8_src, NULL, IDN2_NONTRANSITIONAL);
if (res != IDN2_OK) {
fatal("'%s' is not a legal IDNA2008 name (%s), use +noidnout",
    from, idn2_strerror(res));
}
```

* Finally, try converting the decoded 'from' into the current locale's character encoding.

```
res = idn2_to_unicode_8z8z(utf8_src, &tmp_str, 0);
if (res != IDN2_OK) {
fatal("Cannot represent '%s' in the current locale (%s), 
    "use +noidnout or a different locale",
    from, idn2_strerror(res));
}
```

* Free the interim conversion result.

```
free(utf8_src);
```

/* check the length */
if (strlen(tmp_str) >= tolen) {
deploy("encoded ASC string is too long");
free(tmp_str);
}
return (ISC_R_FAILURE);
}

(void) strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return (ISC_R_SUCCESS);
}
#endif /* WITH_IDN_OUT_SUPPORT */
#endif /* WITH_LIBIDN2 */
#endif /* WITH_IDN_SUPPORT */

#ifndef DIG_SIGCHASE
void
print_type(dns_rdatatype_t type)
{
  isc_buffer_t * b = NULL;
  isc_result_t result;
  isc_region_t r;

  result = isc_buffer_allocate(mctx, &b, 4000);
  check_result(result, "isc_buffer_allocate");

  result = dns_rdatatype_totext(type, b);
  check_result(result, "print_type");

  isc_buffer_usedregion(b, &r);
  r.base[r.length] = '\0';

  printf("%s", r.base);

  isc_buffer_free(&b);
}

void
dump_database_section(dns_message_t *msg, int section)
{
  dns_name_t *msg_name=NULL;
  dns_rdataset_t *rdataset;

  do {
    dns_message_currentname(msg, section, &msg_name);
    dns_rdataset_t *rdataset;

    for (rdataset = ISC_LIST_HEAD(msg_name->list); rdataset != NULL;
         rdataset = ISC_LIST_NEXT(rdataset, link)) {
      dns_name_print(msg_name, stdout);
      printf("\n");
      print_rdataset(msg_name, rdataset);
    }
  }
  while (msg_name);
printf("end\n");
}
msg_name = NULL;
} while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);
}

void
dump_database(void) {
dig_message_t * msg;

for (msg = ISC_LIST_HEAD(chase_message_list); msg != NULL;
    msg = ISC_LIST_NEXT(msg, link)) {
    if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER)
        == ISC_R_SUCCESS)
        dump_database_section(msg->msg, DNS_SECTION_ANSWER);
    if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY)
        == ISC_R_SUCCESS)
        dump_database_section(msg->msg, DNS_SECTION_AUTHORITY);
    if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL)
        == ISC_R_SUCCESS)
        dump_database_section(msg->msg, DNS_SECTION_ADDITIONAL);
}

dns_rdataset_t *
search_type(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers) {
    dns_rdataset_t *rdataset;
    dns_rdata_sig_t siginfo;
    dns_rdata_t sigrdata = DNS_RDATA_INIT;
    isc_result_t result;

    for (rdataset = ISC_LIST_HEAD(name->list); rdataset != NULL;
        rdataset = ISC_LIST_NEXT(rdataset, link)) {
        if (type == dns_rdatatype_any) {
            if (rdataset->type != dns_rdatatype_rrsig)
                return (rdataset);
        } else if ((type == dns_rdatatype_rrsig) &&
            (rdataset->type == dns_rdatatype_rrsig)) {
            result = dns_rdataset_first(rdataset);
            check_result(result, "empty rdataset");
            dns_rdataset_current(rdataset, &sigrdata);
            result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
            check_result(result, "sigrdata tostruct siginfo");

            if ((siginfo.covered == covers) ||
{ covers == dns_rdatatype_any }) {
dns_rdata_reset(&sigrdata);
dns_rdata_freestruct(&siginfo);
return (rdataset);
} 

dns_rdata_reset(&sigrdata);
dns_rdata_freestruct(&siginfo);
} else if (rdataset->type == type)
return (rdataset);
} 
return (NULL);
}

dns_rdataset_t *
chase_scanname_section(dns_message_t *msg, dns_name_t *name,
dns_rdatatype_t type, dns_rdatatype_t covers,
int section)
{
dns_rdataset_t *rdataset;
dns_name_t *msg_name = NULL;

if (msg->counts[section] == 0)
return (NULL);

do {

dns_message_currentname(msg, section, &msg_name);
if (dns_name_compare(msg_name, name) == 0) {
	rdataset = search_type(msg_name, type, covers);
if (rdataset != NULL)
return (rdataset);
}

msg_name = NULL;
} while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);

return (NULL);
}

dns_rdataset_t *
chase_scanname(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers)
{
dns_rdataset_t *rdataset = NULL;
dig_message_t * msg;

for (msg = ISC_LIST_HEAD(chase_message_list2);  msg != NULL;  
msg = ISC_LIST_NEXT(msg, link)) {

if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER) == ISC_R_SUCCESS)
{ 
    rdataset = chase_scanname_section(msg->msg, name,
        type, covers,
        DNS_SECTION_ANSWER);
    if (rdataset != NULL)
        return (rdataset);
}

if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY)
    == ISC_R_SUCCESS)
{
    rdataset =
        chase_scanname_section(msg->msg, name,
            type, covers,
            DNS_SECTION_AUTHORITY);
    if (rdataset != NULL)
        return (rdataset);
}

if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL)
    == ISC_R_SUCCESS)
{
    rdataset =
        chase_scanname_section(msg->msg, name,
            type, covers,
            DNS_SECTION_ADDITIONAL);
    if (rdataset != NULL)
        return (rdataset);
}

return (NULL);
}

dns_rdataset_t *
sigchase_scanname(dns_rdatatype_t type, dns_rdatatype_t covers,
    bool * lookedup, dns_name_t *rdata_name)
{
    dig_lookup_t *lookup;
    isc_buffer_t *b = NULL;
    isc_region_t r;
    isc_result_t result;
    dns_rdataset_t * temp;
    dns_rdatatype_t querytype;

    temp = chase_scanname(rdata_name, type, covers);
    if (temp != NULL)
        return (temp);

    if (*lookedup == true)
return (NULL);

lookup = clone_lookup(current_lookup, true);
lookup->trace_root = false;
lookup->new_search = true;

result = isc_buffer_allocate(mctx, &b, BUFSIZE);
check_result(result, "isc_buffer_allocate");
result = dns_name_totext(rdata_name, false, b);
check_result(result, "dns_name_totext");
isc_buffer_usedregion(b, &r);
strncpy(lookup->textname, (char*)r.base, sizeof(lookup->textname));
isc_buffer_free(&b);

if (type == dns_rdatatype_rrsig)
  querytype = covers;
else
  querytype = type;

if (querytype == 0 || querytype == 255) {
  printf("Error in the queried type: %d\n", querytype);
  return (NULL);
}

lookup->rdtype = querytype;
lookup->rdtypeset = true;
lookup->qrdtype = querytype;
*lookedup = true;
ISC_LIST_APPEND(lookup_list, lookup, link);
printf("Launch a query to find a RRset of type ");
print_type(type);
printf(" for zone: %s\n", lookup->textname);
return (NULL);

isc_result_t
insert_trustedkey(void *arg, dns_name_t *name, dns_rdataset_t *rdataset)
{
  isc_result_t result;
dst_key_t *dstkey;

  UNUSED(arg);

  if (rdataset == NULL || rdataset->type != dns_rdatatype_dnskey)
    return (ISC_R_SUCCESS);
for (result = dns_rdataset_first(rdataset);
         result == ISC_R_SUCCESS;
         result = dns_rdataset_next(rdataset)) {
    dns_rdata_t rdata = DNS_RDATA_INIT;
    isc_buffer_t b;

    dns_rdataset_current(rdataset, &rdata);
    isc_buffer_init(&b, rdata.data, rdata.length);
    isc_buffer_add(&b, rdata.length);
    if (tk_list.nb_tk >= MAX_TRUSTED_KEY)
        return (ISC_R_SUCCESS);
    dstkey = NULL;
    result = dst_key_fromdns(name, rdata.rdclass, &b, mctx, &dstkey);
    if (result != ISC_R_SUCCESS)
        continue;
    tk_list.key[tk_list.nb_tk++] = dstkey;
    }
    return (ISC_R_SUCCESS);
}

void
clean_trustedkey()
{
    int i = 0;

    for (i= 0; i < MAX_TRUSTED_KEY; i++) {
        if (tk_list.key[i] != NULL) {
            dst_key_free(&tk_list.key[i]);
            tk_list.key[i] = NULL;
        } else
            break;
    }
    tk_list.nb_tk = 0;
    return;
}

char alphnum[] =
    "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

isc_result_t
removetmpkey(const char *file)
{
    char *tempnamekey = NULL;
    int tempnamekeylen;
    isc_result_t result;

    tempnamekeylen = strlen(file)+10;

    ...
tempnamekey = isc_mem_allocate(mctx, tempnamekeylen);
if (tempnamekey == NULL)
    return (ISC_R_NOMEMORY);

memset(tempnamekey, 0, tempnamekeylen);

strcat(tempnamekey, file);
strcat(tempnamekey, ".key");
isc_file_remove(tempnamekey);

result = isc_file_remove(tempnamekey);
isc_mem_free(mctx, tempnamekey);
return (result);

isc_result_t
get_trusted_key(void) {
    const char *filename = NULL;
    dns_rdatacallbacks_t callbacks;

    result = isc_file_exists(trustedkey);
    if (result != true) {
        result = isc_file_exists("/etc/trusted-key.key");
        if (result != true) {
            result = isc_file_exists("./trusted-key.key");
            if (result != true)
                return (ISC_R_FAILURE);
            else
                filename = "./trusted-key.key";
        } else
            filename = "/etc/trusted-key.key";
    } else
        filename = trustedkey;

    if (filename == NULL) {
        printf("No trusted key\n");
        return (ISC_R_FAILURE);
    }

    dns_rdatacallbacks_init_stdio(&callbacks);
    callbacks.add = insert_trustedkey;
    return (dns_master_loadfile(filename, dns_rootname, dns_rootname,
                                current_lookup->rdclass, DNS_MASTER_NOTTL,
                                &callbacks, mctx));
}
static void
nameFromString(const char *str, dns_name_t *p_ret) {
size_t len = strlen(str);
isc_result_t result;
isc_buffer_t buffer;
dns_fixedname_t fixedname;

REQUIRE(p_ret != NULL);
REQUIRE(str != NULL);

isc_buffer_constinit(&buffer, str, len);
isc_buffer_add(&buffer, len);

dns_fixedname_init(&fixedname);
result = dns_name_fromtext(dns_fixedname_name(&fixedname), &buffer,
   dns_rootname, DNS_NAME_DOWNCASE, NULL);
check_result(result, "nameFromString");

if (dns_name_dynamic(p_ret))
   free_name(p_ret);

result = dns_name_dup(dns_fixedname_name(&fixedname), mctx, p_ret);
check_result(result, "nameFromString");
}

#if DIG_SIGCHASE_TD
isc_result_t
prepare_lookup(dns_name_t *name)
{
isc_result_t result;
dig_lookup_t *lookup = NULL;
dig_server_t *s;
void *ptr;

lookup = clone_lookup(current_lookup, true);
lookup->trace_root = false;
lookup->new_search = true;
lookup->trace_root_sigchase = false;

strlcpy(lookup->textname, lookup->textnamesigchase, MXNAME);
lookup->rdtype = lookup->rdtype_sigchase;
lookup->rdtypeset = true;
lookup->qrdtype = lookup->qrdtype_sigchase;

s = ISC_LIST_HEAD(lookup->my_server_list);
while (s != NULL) {

debug("freeing server %p belonging to %p", s, lookup);
ptr = s;
s = ISC_LIST_NEXT(s, link);
ISC_LIST_DEQUEUE(lookup->my_server_list, (dig_server_t *)ptr, link);
isc_mem_free(mctx, ptr);
}

for (result = dns_rdataset_first(chase_nsrdataset);
    result == ISC_R_SUCCESS;
    result = dns_rdataset_next(chase_nsrdataset)) {
    char namestr[DNS_NAME_FORMATSIZE];
dns_rdata_ns_t ns;
dns_rdata_t rdata = DNS_RDATA_INIT;
dig_server_t * srv = NULL;
#define __FOLLOW_GLUE__
#endif
memset(namesstr, 0, DNS_NAME_FORMATSIZE);
dns_rdataset_current(chase_nsrdataset, &rdata);
result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");
#endif

memset(namesstr, 0, DNS_NAME_FORMATSIZE);

dns_rdataset_current(chase_nsrdataset, &rdata);
result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");
#endif

result = advanced_rrsearch(&rdataset, &ns.name,
    dns_rdatatype_aaaa,
    dns_rdatatype_any, &t);
if (result == ISC_R_SUCCESS) {
    for (result = dns_rdataset_first(rdataset);
        result == ISC_R_SUCCESS;
        result = dns_rdataset_next(rdataset)) {
        dns_rdata_t aaaa = DNS_RDATA_INIT;
dns_rdataset_current(rdataset, &aaaa);

        result = isc_buffer_allocate(mctx, &b, 80);
        check_result(result, "isc_buffer_allocate");

dns_rdata_totext(&aaaa, &ns.name, b);
isc_buffer_usedregion(b, &r);
r.base[r.length] = '\0';
strlcpy(namestr, (char*)r.base,
DNS_NAME_FORMATSIZE);
isc_buffer_free(&b);
dns_rdata_reset(&aaaa);

srv = make_server(namestr, namestr);

ISC_LIST_APPEND(lookup->my_server_list,
srv, link);
}
}

rdataset = NULL;
result = advanced_rsearch(&rdataset, &ns.name, dns_rdatatype_a,
  dns_rdatatype_any, &t);
if (result == ISC_R_SUCCESS) {
  for (result = dns_rdataset_first(rdataset);
       result == ISC_R_SUCCESS;
            result = dns_rdataset_next(rdataset)) {
    dns_rdata_t a = DNS_RDATA_INIT;
    dns_rdataset_current(rdataset, &a);

    result = isc_buffer_allocate(mctx, &b, 80);
    check_result(result, "isc_buffer_allocate");

    dns_rdata_todtext(&a, &ns.name, b);
    isc_buffer_usedregion(b, &r);
    r.base[r.length] = '\0';
    strlcpy(namestr, (char*)r.base,
    DNS_NAME_FORMATSIZE);
    isc_buffer_free(&b);
    dns_rdata_reset(&a);
    printf("ns name: \
",

    srv = make_server(namestr, namestr);

    ISC_LIST_APPEND(lookup->my_server_list,
srv, link);
    }
  }
}
#else

dns_name_format(&ns.name, namestr, sizeof(namestr));
printf("ns name: ");
isc_result_t  
child_of_zone(dns_name_t * name, dns_name_t * zone_name,  
    dns_name_t * child_name)  
{
    dns_namereln_t name_reln;
    int orderp;
    unsigned int nlabelsp;

    name_reln = dns_name_fullcompare(name, zone_name, &orderp, &nlabelsp);
    if (name_reln != dns_namereln_subdomain ||
        dns_name_countlabels(name) < dns_name_countlabels(zone_name) + 1) {
        printf("\n;; ERROR : ");
        dns_name_print(name, stdout);
        printf(" is not a subdomain of: ");
        dns_name_print(zone_name, stdout);
        printf(" FAILED\n\n");
        return (ISC_R_FAILURE);
    }

    dns_name_getlabelsequence(name,
        dns_name_countlabels(name) -
        dns_name_countlabels(zone_name) -1,
        dns_name_countlabels(zone_name) +1,
        child_name);
    return (ISC_R_SUCCESS);
isc_result_t
grandfather_pb_test(dns_name_t *zone_name, dns_rdataset_t *sigrdataset) {
    dns_rdata_sig_t siginfo;
    dns_rdataset_t mysigrdataset;
    isc_result_t result;

    dns_rdataset_init(&mysigrdataset);
    dns_rdataset_clone(sigrdataset, &mysigrdataset);

    result = dns_rdataset_first(&mysigrdataset);
    check_result(result, "empty RRSIG dataset");

    do {
        dns_rdata_t sigrdata = DNS_RDATA_INIT;

        dns_rdataset_current(&mysigrdataset, &sigrdata);

        result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
        check_result(result, "sigrdata tostruct siginfo");

        if (dns_name_compare(&siginfo.signer, zone_name) == 0) {
            result = ISC_R_SUCCESS;
            goto cleanup;
        }
    } while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

    result = ISC_R_FAILURE;

    cleanup:
    dns_rdataset_disassociate(&mysigrdataset);

    return (result);
}

isc_result_t
initialization(dns_name_t *name)
{
    isc_result_t result;
    bool t = true;

    chase_nsrdataset = NULL;
    result = advanced_rrsearch(&chase_nsrdataset, name, dns_rdatatype_ns,
                                 dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
        printf("\n\n;; NS RRset is missing to continue validation:";
              " FAILED\n\n");
return (ISC_R_FAILURE);
}
 INSIST(chase_nsrdataset != NULL);
 prepare_lookup(name);

dup_name(name, &chase_current_name);

return (ISC_R_SUCCESS);
}
#endif

void
print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset)
{
  isc_buffer_t *b = NULL;
  isc_result_t result;
  isc_region_t r;

  result = isc_buffer_allocate(mctx, &b, 9000);
  check_result(result, "isc_buffer_allocate");

  dighost_printrdataset(name, rdataset, b);
  isc_buffer_usedregion(b, &r);
  r.base[r.length] = '\0';

  printf("%s\n", r.base);

  isc_buffer_free(&b);
}

void
dup_name(dns_name_t *source, dns_name_t *target) {
  isc_result_t result;

  if (dns_name_dynamic(target))
    free_name(target);
  result = dns_name_dup(source, mctx, target);
  check_result(result, "dns_name_dup");
}

void
free_name(dns_name_t *name) {
  dns_name_free(name, mctx);
  dns_name_init(name, NULL);
}
/* 
* take a DNSKEY RRset and the RRSIG RRset corresponding in parameter
* return ISC_R_SUCCESS if the DNSKEY RRset contains a trusted_key
* and the RRset is valid
* return ISC_R_NOTFOUND if not contains trusted key
* or if the RRset isn't valid
* return ISC_R_FAILURE if problem
* */

isc_result_t contains_trusted_key(dns_name_t *name, dns_rdataset_t *rdataset,
                                    dns_rdataset_t *sigrdataset)
{
    dns_rdataset_t myrdataset;
    dst_key_t *dnsseckey = NULL;
    int i;
    isc_result_t result;

    if (name == NULL || rdataset == NULL)
        return (ISC_R_FAILURE);

    dns_rdataset_init(&myrdataset);
    dns_rdataset_clone(rdataset, &myrdataset);

    result = dns_rdataset_first(&myrdataset);
    check_result(result, "empty rdataset");

    do {
        dns_rdata_t rdata = DNS_RDATA_INIT;

        dns_rdataset_current(&myrdataset, &rdata);
        INSIST(rdata.type == dns_rdatatype_dnskey);

        result = dns_dnssec_keyfromrdata(name, &rdata,
                                          mctx, &dnsseckey);
        check_result(result, "dns_dnssec_keyfromrdata");

        for (i = 0; i < tk_list.nb_tk; i++) {
            if (dst_key_compare(tk_list.key[i], dnsseckey)
                == true) {
                dns_rdata_reset(&rdata);

                printf("; Ok, find a Trusted Key in the "
                       "DNSKEY RRset: %d\n",
                       dst_key_id(dnsseckey));
                result = sigchase_verify_sig_key(name, rdataset,
dnsseckey,
sigrdataset);
if (result == ISC_R_SUCCESS)
goto cleanup;
}
}
dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&myrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
if (dnsseckey != NULL)
dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&myrdataset);

return (result);
}

isc_result_t
sigchase_verify_sig(dns_name_t *name, dns_rdataset_t *rdataset,
    dns_rdataset_t *keyrdataset,
    dns_rdataset_t *sigrdataset)
{
    dns_rdataset_t mykeyrdataset;
dst_key_t *dnsseckey = NULL;
isc_result_t result;

dns_rdataset_init(&mykeyrdataset);
dns_rdataset_clone(keyrdataset, &mykeyrdataset);

result = dns_rdataset_first(&mykeyrdataset);
check_result(result, "empty DNSKEY dataset");

do {
    dns_rdata_t keyrdata = DNS_RDATA_INIT;

dns_rdataset_current(&mykeyrdataset, &keyrdata);
INSIST(keyrdata.type == dns_rdatatype_dnskey);

result = dns_dnssec_keyfromrdata(name, &keyrdata,
mctx, &dnsseckey);
check_result(result, "dns_dnssec_keyfromrdata");

result = sigchase_verify_sig_key(name, rdataset, dnsseckey,
sigrdataset);
if (result == ISC_R_SUCCESS)
goto cleanup;

result = ISC_R_SUCCESS;
dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
if (dnsseckey != NULL)
dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&mykeyrdataset);

return (result);

isc_result_t
sigchase_verify_sig_key(dns_name_t *name, dns_rdataset_t *rdataset,
dst_key_t *dnsseckey, dns_rdataset_t *sigrdataset)
{
dns_rdata_sig_t siginfo;
dns_rdataset_t myrdataset;
dns_rdataset_t mysigrdataset;
isc_result_t result;

dns_rdataset_init(&myrdataset);
dns_rdataset_clone(rdataset, &myrdataset);
dns_rdataset_init(&mysigrdataset);
dns_rdataset_clone(sigrdataset, &mysigrdataset);

result = dns_rdataset_first(&mysigrdataset);
check_result(result, "empty RRSIG dataset");

do {
  dns_rdata_t sigrdata = DNS_RDATA_INIT;

  dns_rdataset_current(&mysigrdataset, &sigrdata);

  result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
  check_result(result, "sigrdata tostruct siginfo");

  /*
  * Test if the id of the DNSKEY is
  * the id of the DNSKEY signer's
  */
  if (siginfo.keyid == dst_key_id(dnsseckey)) {

    result = dns_rdataset_first(&myrdataset);
    check_result(result, "empty DS dataset");

    result = dns_dnssec_verify(name, &myrdataset, dnsseckey,

false, mctx, &sigdata);

printf(";; VERIFYING ");
print_type(rdataset->type);
printf(" RRset for ");
dns_name_print(name, stdout);
printf(" with DNSKEY:%d: %s\n", dst_key_id(dnsseckey),
       isc_result_totext(result));

if (result == ISC_R_SUCCESS)
goto cleanup;
}
} while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
    dns_rdataset_disassociate(&myrdataset);
    dns_rdataset_disassociate(&mysigrdataset);

    return (result);
}

isc_result_t
sigchase_verify_ds(dns_name_t *name, dns_rdataset_t *keyrdataset,
        dns_rdataset_t *dsrdataset)
{
    dns_rdata_ds_t dsinfo;
    dns_rdataset_t mydsrdataset;
    dns_rdataset_t mykeyrdataset;
    dst_key_t *dnsseckey = NULL;
    isc_result_t result;
    unsigned char dsbuf[DNS_DS_BUFFERSIZE];

    dns_rdataset_init(&mydsrdataset);
    dns_rdataset_clone(dsrdataset, &mydsrdataset);
    dns_rdataset_init(&mykeyrdataset);
    dns_rdataset_clone(keyrdataset, &mykeyrdataset);

    result = dns_rdataset_first(&mydsrdataset); 
    check_result(result, "empty DSset dataset");
    do {
        dns_rdata_t dsrdata = DNS_RDATA_INIT;

        dns_rdataset_current(&mydsrdataset, &dsrdata);

        result = dns_rdata_tostruct(&dsrdata, &dsinfo, NULL);
check_result(result, "dns_rdata_tostruct for DS");

result = dns_rdataset_first(&mykeyrdataset);
check_result(result, "empty KEY dataset");

do {
    dns_rdata_t keyrdata = DNS_RDATA_INIT;

    dns_rdataset_current(&mykeyrdataset, &keyrdata);
    INSIST(keyrdata.type == dns_rdatatype_dnskey);

    result = dns_dnssec_keyfromrdata(name, &keyrdata,
                                      mctx, &dnsseckey);
    check_result(result, "dns_dnssec_keyfromrdata");

    /*
     * Test if the id of the DNSKEY is the
     * id of DNSKEY referenced by the DS
     */
    if (dsinfo.key_tag == dst_key_id(dnsseckey)) {
        dns_rdata_t newdsrdata = DNS_RDATA_INIT;

        result = dns_ds_buildrdata(name, &keyrdata,
                                    dsinfo.digest_type,
                                    dsbuf, &newdsrdata);
        dns_rdata_freestruct(&dsinfo);

        if (result != ISC_R_SUCCESS) {
            printf("Oops: impossible to build"
                   " new DS rdata\n");
            goto cleanup;
        }

        if (dns_rdata_compare(&dsrdata,
                              &newdsrdata) == 0) {
            printf(":: OK a DS valids a DNSKEY"
                   " in the RRset\n");
            printf(":: Now verify that this"
                   " DNSKEY validates the"
                   "DNSKEY RRset\n");

            result = sigchase_verify_sig_key(name,
                                             keyrdataset,
                                             dnsseckey,
                                             chase_sigkeyrdataset);
            if (result == ISC_R_SUCCESS)
                goto cleanup;
        }
    }

    cleanup:
}
} else {
    printf(";; This DS is NOT the DS for"
        " the chasing KEY: FAILED\n";
    }
}
dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);
} while (dns_rdataset_next(&mydsrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
if (dnsseckey != NULL)
dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&mydsrdataset);
dns_rdataset_disassociate(&mykeyrdataset);

return (result);
}

/*
 * take a pointer on a rdataset in parameter and try to resolve it.
 * the searched rset is a rset on 'name' with type 'type'
 * (and if the type is a rrsig the signature cover 'covers').
 * the lookedup is to known if you have already done the query on the net.
 * ISC_R_SUCCESS: if we found the rset
 * ISC_R_NOTFOUND: we do not found the rset in cache
 * and we do a query on the net
 * ISC_R_FAILURE: rset not found
 */
isc_result_t
advanced_rrsearch(dns_rdataset_t **rdataset, dns_name_t *name,
dns_rdatatype_t type, dns_rdatatype_t covers,
bool *lookedup)
{
    bool tmplookedup;

    INSIST(rdataset != NULL);

    if (*rdataset != NULL)
return (ISC_R_SUCCESS);

    tmplookedup = *lookedup;
if ((*rdataset = sigchase_scanname(type, covers,
    lookedup, name)) == NULL) {
if (tmplookedup)
return (ISC_R_FAILURE);
}
return (ISC_R_NOTFOUND);
}
*lookedup = false;
return (ISC_R_SUCCESS);
}

#if DIG_SIGCHASE_TD
void
sigchase_td(dns_message_t *msg)
{
isc_result_t result;
dns_name_t *name = NULL;
bool have_answer = false;
bool t = true;

if (msg->rcode != dns_rcode_noerror &&
    msg->rcode != dns_rcode_nxdomain) {
    char buf[20];
    isc_buffer_t b;

    isc_buffer_init(&b, buf, sizeof(buf));
    result = dns_rcode_totext(msg->rcode, &b);
    check_result(result, "dns_rcode_totext failed");
    printf("error response code %.*s\n",
           (int)isc_buffer_usedlength(&b), buf);
    error_message = msg;
    return;
}
else {
    if (!current_lookup->trace_root_sigchase) {
        result = dns_message_firstname(msg, DNS_SECTION_AUTHORITY);
        if (result != ISC_R_SUCCESS) {
            printf("no answer or authority section\n");
            error_message = msg;
            return;
        }

    have_answer = true;
    } else {
        if (!current_lookup->trace_root_sigchase) {
            result = dns_message_firstname(msg, DNS_SECTION_AUTHORITY);
            if (result != ISC_R_SUCCESS) {
                printf("no answer or authority section\n");
                error_message = msg;
                return;
            }

    initialization(name);
    return;
}}

#else DIG_SIGCHASE_TD#endif
dns_message_currentname(msg, DNS_SECTION_AUTHORITY, &name);
chase_nsrdataset = chase_scannamex_section(msg, name,
    dns_rdatatype_ns,
    dns_rdatatype_any,
    DNS_SECTION_AUTHORITY);
dup_name(name, &chase_authority_name);
if (chase_nsrdataset != NULL) {
have_delegation_ns = true;
    printf("no response but there is a delegation"
        " in authority section: ");
dns_name_print(name, stdout);
    printf("\n");
} else {
    printf("no response and no delegation in "
        "authority section but a reference"
        " to: ");
dns_name_print(name, stdout);
    printf("\n");
}
error_message = msg;
}
else {
    printf(";; NO ANSWERS: %s\n",
        isc_result_totext(result));
    free_name(&chase_name);
clean_trustedkey();
    return;
}

if (have_answer) {
chase_rdataset = chase_scannamex_section(msg, &chase_name,
    current_lookup
    |-rdtype_sigchase,
    dns_rdatatype_any,
    DNS_SECTION_ANSWER);
if (chase_rdataset != NULL)
    have_response = true;
}

result = advanced_rrsearch(&chase_keyrdataset,
    &chase_current_name,
    dns_rdatatype_dnskey,
    dns_rdatatype_any,
    &chase_keylookedup);
if (result == ISC_R_FAILURE) {
    printf(";; DNSKEY is missing to continue validation:
           " FAILED
           
           ");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_keyrdataset != NULL);
printf(";; DNSKEYset:\n");
print_rdataset(&chase_current_name , chase_keyrdataset);

result = advanced_rrsearch(&chase_sigkeyrdataset,
                                &chase_current_name,
                                dns_rdatatype_rrsig,
                                dns_rdatatype_dnskey,
                                &chase_sigkeylookedup);
if (result == ISC_R_FAILURE) {
    printf(";; RRSIG of DNSKEY is missing to continue validation:
           " FAILED
           
           ");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_sigkeyrdataset != NULL);
printf(";; RRSIG of the DNSKEYset:\n");
print_rdataset(&chase_current_name , chase_sigkeyrdataset);

if (!chase_dslookedup && !chase_nslookedup) {
    if (!delegation_follow) {
        result = contains_trusted_key(&chase_current_name,
                                       chase_keyrdataset,
                                       chase_sigkeyrdataset);
    } else {
        INSIST(chase_dsrdataset != NULL);
        INSIST(chase_sigsdsrdataset != NULL);
        result = sigchase_verify_ds(&chase_current_name,
                                     chase_keyrdataset,
                                     chase_dsrdataset);
    }
}
if (result != ISC_R_SUCCESS) {
    printf(";; chain of trust can't be validated:
           " FAILED
           
           ");
goto cleanandgo;
} else {
    chase_dsrdataset = NULL;
chase_sigdsrdataset = NULL;
}
}

if (have_response || (!have_delegation_ns && !have_response)) {
/* test if it's a grand father case */

if (have_response) {
    result = advanced_rrsearch(&chase_sigdsrdataset,
        &chase_name,
        dns_rdatatpe_rrsig,
        current_lookup
            ->rdtype_sigchase,
        &t);
    if (result == ISC_R_FAILURE) {
        printf(";; RRset is missing to continue"
            " validation SHOULD NOT APPEND:"
            " FAILED\n\n");
        goto cleanandgo;
    } else {
        result = advanced_rrsearch(&chase_sigdsrdataset,
            &chase_authority_name,
            dns_rdatatpe_rrsig,
            dns_rdatatpe_any,
            &t);
        if (result == ISC_R_FAILURE) {
            printf(";; RRSIG is missing to continue"
                " validation SHOULD NOT APPEND:"
                " FAILED\n\n");
            goto cleanandgo;
        }
    }
    result = grandfather_pb_test(&chase_current_name,
        chase_sigrdataset);
    if (result != ISC_R_SUCCESS) {
        dns_name_t tmp_name;
        printf("\n;; We are in a Grand Father Problem:"
            " See 2.2.1 in RFC 3658\n\n");
        chase_rdataset = NULL;
        chase_sigdsrdataset = NULL;
        have_response = false;
        have_delegation_ns = false;
        dns_name_init(&tmp_name, NULL);
        result = child_of_zone(&chase_name, &chase_current_name,
            &t);
        printf("\n;; Grandfather Test Failed:"
            " See 2.2.1 in RFC 3658\n\n");
        goto cleanandgo;
    } else {
        result = advanced_rrsearch(&chase_sigdsrdataset,
            &chase_name,
            dns_rdatatpe_rrsig,
            current_lookup
                ->rdtype_sigchase,
            &t);
        if (result == ISC_R_FAILURE) {
            printf("\n;; RRset is missing to continue"
                " validation SHOULD NOT APPEND:"
                " FAILED\n\n");
            goto cleanandgo;
        }
    }
    result = grandfather_pb_test(&chase_current_name,
        chase_sigrdataset);
    if (result != ISC_R_SUCCESS) {
        dns_name_t tmp_name;
        printf("\n;; We are in a Grand Father Problem:"
            " See 2.2.1 in RFC 3658\n\n");
        chase_rdataset = NULL;
        chase_sigdsrdataset = NULL;
        have_response = false;
        have_delegation_ns = false;
        dns_name_init(&tmp_name, NULL);
        result = child_of_zone(&chase_name, &chase_current_name,
            &t);
        printf("\n;; Grandfather Test Failed:"
            " See 2.2.1 in RFC 3658\n\n");
        goto cleanandgo;
    } else {
        result = advanced_rrsearch(&chase_sigdsrdataset,
            &chase_name,
            dns_rdatatpe_rrsig,
            current_lookup
                ->rdtype_sigchase,
            &t);
        if (result == ISC_R_FAILURE) {
            printf("\n;; RRset is missing to continue"
                " validation SHOULD NOT APPEND:"
                " FAILED\n\n");
            goto cleanandgo;
        }
    }
} else {
    result = advanced_rrsearch(&chase_sigdsrdataset,
        &chase_authority_name,
        dns_rdatatpe_rrsig,
        dns_rdatatpe_any,
        &t);
    if (result == ISC_R_FAILURE) {
        printf("\n;; RRSIG is missing to continue"
            " validation SHOULD NOT APPEND:"
            " FAILED\n\n");
        goto cleanandgo;
    }
}
&tmp_name);
if (result != ISC_R_SUCCESS)
goto cleanandgo;
if (dns_name_dynamic(&chase_authority_name))
free_name(&chase_authority_name);
dup_name(&tmp_name, &chase_authority_name);
printf(";; and we try to continue chain of trust"
   " validation of the zone: ");
dns_name_print(&chase_authority_name, stdout);
printf("\n");
have_delegation_ns = true;
} else {
if (have_response)
goto finalstep;
else
chase_sigrdataset = NULL;
}
}

if (have_delegation_ns) {
chase_nsrdataset = NULL;
result = advanced_rrsearch(&chase_nsrdataset,
   &chase_authority_name,
   dns_rdatatype_ns,
   dns_rdatatype_any,
   &chase_nslookedup);
if (result == ISC_R_FAILURE) {
printf(";;NSset is missing to continue validation:" 
   " FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND) {
return;
}
INSIST(chase_nsrdataset != NULL);

result = advanced_rrsearch(&chase_dsrdataset,
   &chase_authority_name,
   dns_rdatatype_ds,
   dns_rdatatype_any,
   &chase_dslookedup);
if (result == ISC_R_FAILURE) {
printf(";; DSset is missing to continue validation:" 
   " FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
return;
INSIST(chase_dsrdataset != NULL);
printf("\n; DSset\n");
print_rdataset(&chase_authority_name, chase_dsrdataset);

result = advanced_rrsearch(&chase_sigdsrdataset,
    &chase_authority_name,
    dns_rdatatype_rrsig,
    dns_rdatatype_ds,
    &t);
if (result != ISC_R_SUCCESS) {
    printf("\n; DSset is missing to continue validation:
    " FAILED\n\n");
goto cleanandgo;
}
printf("\n; RRSIGset of DSset\n");
print_rdataset(&chase_authority_name, chase_sigdsrdataset);
INSIST(chase_sigdsrdataset != NULL);

result = sigchase_verify_sig(&chase_authority_name,
    chase_dsrdataset,
    chase_keyrdataset,
    chase_sigdsrdataset);
if (result != ISC_R_SUCCESS) {
    printf("\n; Impossible to verify the DSset:
    " FAILED\n\n");
goto cleanandgo;
}
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;

prepare_lookup(&chase_authority_name);

have_response = false;
have_delegation_ns = false;
delegation_follow = true;
error_message = NULL;
dup_name(&chase_authority_name, &chase_current_name);
free_name(&chase_authority_name);
return;
}

if (error_message != NULL) {
    dns_rdataset_t *rdataset;
    dns_rdataset_t *sigrdataset;
    dns_name_t rdata_name;
    isc_result_t ret = ISC_R_FAILURE;
dns_name_init(&rdata_name, NULL);
result = prove_nx(error_message, &chase_name,
current_lookup->rdclass_sigchase,
current_lookup->rdtype_sigchase, &rdata_name, &rdataset, &sigrdataset);
if (rdataset == NULL || sigrdataset == NULL ||
dns_name_countlabels(&rdata_name) == 0) {
    printf("\n;; Impossible to verify the non-existence,"
    " the NSEC RRset can't be validated:
    " FAILED\n\n");
goto cleanandgo;
}
ret = sigchase_verify_sig(&rdata_name, rdataset,
    chase_keyrdataset,
    sigrdataset);
if (ret != ISC_R_SUCCESS) {
    free_name(&rdata_name);
    printf("\n;; Impossible to verify the NSEC RR to prove"
    " the non-existence : FAILED\n\n");
goto cleanandgo;
} else {
    free_name(&rdata_name);
    if (result != ISC_R_SUCCESS) {
        printf("\n;; Impossible to verify the non-existence:
        " FAILED\n\n");
goto cleanandgo;
    } else {
        printf("\n;; OK the query doesn't have response but"
        " we have validate this fact : SUCCESS\n\n");
goto cleanandgo;
    }
}

cleanandgo:
printf("\n;; cleanandgo \n");
if (dns_name_dynamic(&chase_current_name))
    free_name(&chase_current_name);
if (dns_name_dynamic(&chase_authority_name))
    free_name(&chase_authority_name);
clean_trustedkey();
return;

finalstep :
result = advanced_rresearch(&chase_rdataset, &chase_name,
current_lookup->rdtype_sigchase,
dns_rdatatype_any, &t);
if (result == ISC_R_FAILURE) {
  printf(";; RRsig of RRset is missing to continue validation"
         " SHOULD NOT APPEND: FAILED\n\n")
  goto cleanandgo;
}
result = sigchase_verify_sig(&chase_name, chase_rdataset,
                           chase_keyrdataset,
                           chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
  printf(";; Impossible to verify the RRset : FAILED\n\n");
/*
  printf("RRset:\n");
  print_rdataset(&chase_name , chase_rdataset);
  printf("DNSKEYset:\n");
  print_rdataset(&chase_name , chase_keyrdataset);
  printf("RRSIG of RRset:\n");
  print_rdataset(&chase_name , chase_sigrdataset);
  printf("\n");
*/
  goto cleanandgo;
} else {
  printf(";; The Answer:\n");
  print_rdataset(&chase_name , chase_rdataset);

  printf(";; FINISH : we have validate the DNSSEC chain"
         " of trust: SUCCESS\n\n")
  goto cleanandgo;
}

#endif

#if DIG_SIGCHASE_BU

isc_result_t
getneededrr(dns_message_t *msg)
{
  isc_result_t result;
  dns_name_t *name = NULL;
  dns_rdata_t sigrdata = DNS_RDATA_INIT;
  dns_rdata_sig_t siginfo;
  bool t = true;

  if ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER))
    != ISC_R_SUCCESS) {
    printf(";; NO ANSWERS: %s\n", isc_result_totext(result));

  }
if (chase_namendata == NULL)
return (ISC_R_ADDRNOTAVAIL);
} else {
dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
}

/* What do we chase? */
if (chase_rdataset == NULL) {
result = advanced_rrsearch(&chase_rdataset, name,
  dns_rdatatype_any,
  dns_rdatatpe_any, &t);
if (result != ISC_R_SUCCESS) {
printf("\n;; No Answers: Validation FAILED\n\n");
return (ISC_R_NOTFOUND);
}
dup_name(name, &chase_name);
printf(";; RRset to chase:
");
print_rdataset(&chase_name, chase_rdataset);
}
INSIST(chase_rdataset != NULL);

if (chase_sigrdataset == NULL) {
result = advanced_rrsearch(&chase_sigrdataset, name,
  dns_rdatatype_rssig,
  chase_rdataset->type,
  &chase_siglookedup);
if (result == ISC_R_FAILURE) {
printf("\n;; RRSIG is missing for continue validation:" " FAILED\n\n");
if (dns_name_dynamic(&chase_name))
free_name(&chase_name);
return (ISC_R_NOTFOUND);
}
if (result == ISC_R_NOTFOUND) {
return (ISC_R_NOTFOUND);
}
printf("\n;; RRSIG of the RRset to chase:\n");
print_rdataset(&chase_name, chase_sigrdataset);
}
INSIST(chase_sigrdataset != NULL);

/* first find the DNSKEY name */
result = dns_rdataset_first(chase_sigrdataset);
check_result(result, "empty RRSIG dataset");
dns_rdataset_current(chase_sigrdataset, &sigdata);
result = dns_rdata_tostruct(&sigdata, &siginfo, NULL);
check_result(result, "sigrdata tostruct siginfo");
dup_name(&siginfo.signer, &chase_signame);
dns_rdata_freestruct(&siginfo);
dns_rdata_reset(&sigrdata);

/* Do we have a key? */
if (chase_keyrdataset == NULL) {
    result = advanced_rrssearch(&chase_keyrdataset,
                              &chase_signame,
                              dns_rdatatype_dnskey,
                              dns_rdatatype_any,
                              &chase_keylookedup);
    if (result == ISC_R_FAILURE) {
        printf(";; DNSKEY is missing to continue validation:
               " FAILED\n\n");
        free_name(&chase_signame);
        if (dns_name_dynamic(&chase_name))
            free_name(&chase_name);
        return (ISC_R_NOTFOUND);
    }  
    if (result == ISC_R_NOTFOUND) {
        free_name(&chase_signame);
        return (ISC_R_NOTFOUND);
    }  
    printf(";; DNSKEYset that signs the RRset to chase:\n");
    print_rdataset(&chase_signame, chase_keyrdataset);
}  
INSIST(chase_keyrdataset != NULL);

if (chase_sigkeyrdataset == NULL) {
    result = advanced_rrssearch(&chase_sigkeyrdataset,
                                 &chase_signame,
                                 dns_rdatatype_rrsig,
                                 dns_rdatatype_dnskey,
                                 &chase_sigkeylookedup);
    if (result == ISC_R_FAILURE) {
        printf(";; RRSIG for DNSKEY is missing to continue validation:
               " FAILED\n\n");
        free_name(&chase_signame);
        if (dns_name_dynamic(&chase_name))
            free_name(&chase_name);
        return (ISC_R_NOTFOUND);
    }  
    if (result == ISC_R_NOTFOUND) {
        free_name(&chase_signame);
        return (ISC_R_NOTFOUND);
    }  
    printf(";; RRSIG of the DNSKEYset that signs the "}
"RRset to chase:\n";
print_rdataset(&chase_signame, chase_sigkeyrdataset);
}
INSIST(chase_sigkeyrdataset != NULL);

if (chase_dsrdataset == NULL) {
    result = advanced_rrsearch(&chase_dsrdataset, &chase_signame,
        dns_rdatatype_ds, dns_rdatatype_any,
        &chase_dslookedup);
    if (result == ISC_R_FAILURE) {
        printf(";; WARNING There is no DS for the zone: ");
        dns_name_print(&chase_signame, stdout);
        printf("\n");
        return ISC_R_FAILURE;
    }
    if (result == ISC_R_NOTFOUND) {
        free_name(&chase_signame);
        return ISC_R_NOTFOUND;
    }
    if (chase_dsrdataset != NULL) {
        printf(";; DSset of the DNSKEYset\n");
        print_rdataset(&chase_signame, chase_dsrdataset);
    }
}

if (chase_dsrdataset != NULL) {
    /*
     * if there is no RRSIG of DS,
     * we don't want to search on the network
     */
    result = advanced_rrsearch(&chase_sigsrdataset,
        &chase_signame,
        dns_rdatatype_rrsig,
        dns_rdatatype_ds, &t);
    if (result == ISC_R_FAILURE) {
        printf(";; WARNING : NO RRSIG DS : RRSIG DS"
            " should come with DS\n");
        /*
         * We continue even the DS couldn't be validated,
         * because the DNSKEY could be a Trusted Key.
         */
        chase_dsrdataset = NULL;
    } else {
        printf("\n;; RRSIG of the DSset of the DNSKEYset\n");
        print_rdataset(&chase_signame, chase_sigsrdataset);
    }
}
return (1);
void
sigchase_bu(dns_message_t *msg)
{
    isc_result_t result;
    int ret;

    if (tk_list.nb_tk == 0) {
        result = get_trusted_key();
        if (result != ISC_R_SUCCESS) {
            printf("No trusted keys present\n");
            return;
        }
    }

    ret = getneededrr(msg);
    if (ret == ISC_R_NOTFOUND)
        return;

    if (ret == ISC_R_ADDRNOTAVAIL) {
        /* We have no response */
        dns_rdataset_t *rdataset;
        dns_rdataset_t *sigrdataset;
        dns_name_t rdata_name;
        dns_name_t query_name;

        dns_name_init(&query_name, NULL);
        dns_name_init(&rdata_name, NULL);
        nameFromString(current_lookup->textname, &query_name);

        result = prove_nx(msg, &query_name, current_lookup->rdclass,
                          current_lookup->rdtype, &rdata_name,
                          &rdataset, &sigrdataset);
        free_name(&query_name);
        if (rdataset == NULL || sigrdataset == NULL ||
            dns_name_countlabels(&rdata_name) == 0) {
            printf("\n;; Impossible to verify the Non-existence,"

            " the NSEC RRset can't be validated: "
            "FAILED\n\n");
            clean_trustedkey();
            return;
        }
    }
}
if (result != ISC_R_SUCCESS) {
    printf("\n No Answers and impossible to prove the"
           " unsecurity : Validation FAILED\n\n");
clean_trustedkey();
return;
}
printf(";; An NSEC prove the non-existence of a answers,"
       " Now we want validate this NSEC\n");

dup_name(&rdata_name, &chase_name);
free_name(&rdata_name);
chase_rdataset = rdataset;
chase_sigdataset = sigdataset;
chase_keyrdataset = NULL;
chase_sigrdataset = NULL;
chase_dsrdataset = NULL;
chase_signsrdataset = NULL;
chase_siglookedup = false;
chase_keylookedup = false;
chase_dslookedup = false;
chase_sigsdslookedup = false;
sigchase(msg);
clean_trustedkey();
return;
}

printf("\n\n;; WE HAVE MATERIAL, WE NOW DO VALIDATION\n");

result = sigchase_verify_sig(&chase_name, chase_rdataset,
                             chase_keyrdataset,
                             chase_sigdataset);
if (result != ISC_R_SUCCESS) {
    free_name(&chase_name);
    free_name(&chase_signame);
    printf(";; No DNSKEY is valid to check the RRSIG"
           " of the RRsset: FAILED\n");
clean_trustedkey();
return;
}
printf(";; OK We found DNSKEY (or more) to validate the RRsset\n");

result = contains_trusted_key(&chase_signame, chase_keyrdataset,
                             chase_sigrdataset);
if (result == ISC_R_SUCCESS) {
    free_name(&chase_name);
    free_name(&chase_signame);
    printf("\n;; Ok this DNSKEY is a Trusted Key,"
" DNSSEC validation is ok: SUCCESS"

); clean_trustedkey(); return;
}

printf(";; Now, we are going to validate this DNSKEY by the DS

if (chase_dsrdataset == NULL) {
 free_name(&chase_name);
 free_name(&chase_signame);
 printf(";; the DNSKEY isn't trusted-key and there isn't"
 " DS to validate the DNSKEY: FAILED"
); clean_trustedkey(); return;
}

result = sigchase_verify_ds(&chase_signame, chase_keyrdataset,
 chase_dsrdataset);
if (result != ISC_R_SUCCESS) {
 free_name(&chase_signame);
 free_name(&chase_name);
 printf(";; ERROR no DS validates a DNSKEY in the"
 " DNSKEY RRset: FAILED"
); clean_trustedkey(); return;
} else
 printf(";; OK this DNSKEY (validated by the DS) validates"
 " the RRset of the DNSKEYs, thus the DNSKEY validates"
 " the RRset""); INSIST(chase_sigdsrdataset != NULL);

dup_name(&chase_signame, &chase_name);
 free_name(&chase_signame);
 chase_rdataset = chase_dsrdataset;
 chase_sigrdataset = chase_sigdsrdataset;
 chase_keyrdataset = NULL;
 chase_sigrdataset = NULL;
 chase_dsrdataset = NULL;
 chase_sigsrdataset = NULL;
 chase_sigsdsrdataset = NULL;
 chase_sigsdslookedup = false;
 chase_dslookedup = false;

printf(";; Now, we want to validate the DS :  recursive call"
); sigchase(msg);
 return;
} #endif
void
sigchase(dns_message_t *msg) {
#if DIG_SIGCHASE_TD
if (current_lookup->do_topdown) {
    sigchase_td(msg);
    return;
}
#endif
#if DIG_SIGCHASE_BU
    sigchase_bu(msg);
    return;
#endif
}

/*
 * return 1 if name1 < name2
 * 0 if name1 == name2
 * -1 if name1 > name2
 * and -2 if problem
 */
int
inf_name(dns_name_t *name1, dns_name_t *name2) {
    dns_label_t label1;
    dns_label_t label2;
    unsigned int nlabel1;
    unsigned int nlabel2;
    int min_lum_label;
    int i;
    int ret = -2;

    nlabel1 = dns_name_countlabels(name1);
    nlabel2 = dns_name_countlabels(name2);

    if (nlabel1 >= nlabel2)
        min_lum_label = nlabel2;
    else
        min_lum_label = nlabel1;

    for (i=1 ; i < min_lum_label; i++) {
        dns_name_getlabel(name1, nlabel1 -1 - i, &label1);
        dns_name_getlabel(name2, nlabel2 -1 - i, &label2);
        if ((ret = isc_region_compare(&label1, &label2)) != 0) {
            if (ret < 0)
                return (-1);
            else if (ret > 0)
return (1);
}
}
if (nblabel1 == nblabel2)
return (0);

if (nblabel1 < nblabel2)
return (-1);
else
return (1);

/**
 *
 *
 */
isc_result_t
prove_nx_domain(dns_message_t *msg,
dns_name_t *name,
dns_name_t *rdata_name,
dns_rdataset_t **rdataset,
dns_rdataset_t **sigrdataset)
{
isc_result_t ret = ISC_R_FAILURE;
isc_result_t result = ISC_R_NOTFOUND;
dns_rdataset_t *nsecset = NULL;
dns_rdataset_t *signsecset = NULL ;
dns_rdata_t nsec = DNS_RDATA_INIT;
dns_name_t *nsecname;
dns_rdata_nsec_t nsecstruct;

if ((result = dns_message_firstname(msg, DNS_SECTION_AUTHORITY))
!= ISC_R_SUCCESS) {
    printf(";; nothing in authority section : impossible to"
        " validate the non-existence : FAILED\n");
    return (ISC_R_FAILURE);
}

do {
    nsecname = NULL;
dns_message_currentname(msg, DNS_SECTION_AUTHORITY, &nsecname);
    nsecset = search_type(nsecname, dns_rdatatype_nsec,
        dns_rdatatype_any);
    if (nsecset == NULL)
        continue;

    printf("There is a NSEC for this zone in the"
print_rdataset(nsecname, nsecset);

for (result = dns_rdataset_first(nsecset);
    result == ISC_R_SUCCESS;
    result = dns_rdataset_next(nsecset)) {
    dns_rdataset_current(nsecset, &nsec);

    signsecset
      = chase_scanname_section(msg, nsecname,
        dns_rdatatype_rrsig,
        dns_rdatatype_nsec,
        DNS_SECTION_AUTHORITY);
    if (signsecset == NULL) {
      printf(";; no RRSIG NSEC in authority section:
          " impossible to validate the 
          "non-existence: FAILED\n");
      return (ISC_R_FAILURE);
    }

    ret = dns_rdata_tostruct(&nsec, &nsecstruct, NULL);
    check_result(ret,"dns_rdata_tostruct");

    if ((inf_name(nsecname, &nsecstruct.next) == 1 &&
        inf_name(name, &nsecstruct.next) == 1) ||
      (inf_name(name, nsecname) == 1 &&
        inf_name(&nsecstruct.next, name) == 1)) {
      dns_rdata_freestruct(&nsecstruct);
      *rdataset = nsecset;
      *sigrdataset = signsecset;
      dup_name(nsecname, rdata_name);

      return (ISC_R_SUCCESS);
    }

    dns_rdata_freestruct(&nsecstruct);
    dns_rdata_reset(&nsec);
  }
} while (dns_message_nextname(msg, DNS_SECTION_AUTHORITY)
  == ISC_R_SUCCESS);

*rdataset = NULL;
*sigrdataset = NULL;
rdata_name = NULL;
return (ISC_R_FAILURE);

/***
isc_result_t
prove_nx_type(dns_message_t *msg, dns_name_t *name, dns_rdataset_t *nsecset,
               dns_rdataclass_t rdclass, dns_rdatatype_t type,
               dns_name_t *rdata_name, dns_rdataset_t **rdataset,
               dns_rdataset_t **sigrdataset)
{
    isc_result_t ret;
    dns_rdataset_t *signsecset;
    dns_rdata_t nsec = DNS_RDATA_INIT;

    UNUSED(rdclass);

    ret = dns_rdataset_first(nsecset);
    check_result(ret,"dns_rdataset_first");

    dns_rdataset_current(nsecset, &nsec);

    ret = dns_nsec_typepresent(&nsec, type);
    if (ret == ISC_R_SUCCESS)
        printf("OK the NSEC said that the type doesn't exist \n");

    signsecset = chase_scanname_section(msg, name,
                                         dns_rdatatype_rrsig,
                                         dns_rdatatype_nsec,
                                         DNS_SECTION_AUTHORITY);
    if (signsecset == NULL) {
        printf("There isn't RRSIG NSEC for the zone \n");
        return (ISC_R_FAILURE);
    }
    dup_name(name, rdata_name);
    *rdataset = nsecset;
    *sigrdataset = signsecset;

    return (ret);
}

/**
 *
 *
 */
isc_result_t
prove_nx(dns_message_t *msg, dns_name_t *name, dns_rdataclass_t rdclass,
    dns_rdatatype_t type, dns_name_t *rdata_name,
    dns_rdataset_t **rdataset, dns_rdataset_t **sigrdataset)
{
    isc_result_t ret;
    dns_rdataset_t *nsecset = NULL;

    printf("We want to prove the non-existence of a type of rdata %d"
        " or of the zone: \n", type);

    if ((ret = dns_message_firstname(msg, DNS_SECTION_AUTHORITY))
        != ISC_R_SUCCESS) {
        printf(";; nothing in authority section : impossible to"
            " validate the non-existence : FAILED\n");
        return (ISC_R_FAILURE);
    }

    nsecset = chase_scanname_section(msg, name, dns_rdatatype_nsec,
        dns_rdatatype_any,
        DNS_SECTION_AUTHORITY);
    if (nsecset != NULL) {
        printf("We have a NSEC for this zone :OK\n");
        ret = prove_nx_type(msg, name, nsecset, rdclass,
            type, rdata_name, rdataset,
            sigrdataset);
        if (ret != ISC_R_SUCCESS) {
            printf("prove_nx: ERROR type exist\n");
            return (ret);
        } else {
            printf("prove_nx: OK type does not exist\n");
            return (ISC_R_SUCCESS);
        }
    } else {
        printf("there is no NSEC for this zone: validating "
            "that the zone doesn't exist\n");
        ret = prove_nx_domain(msg, name, rdata_name,
            rdataset, sigrdataset);
        return (ret);
    }
/* Never get here */

#endif

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1.77 ustr 1.0.4 6
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.82 libidn 1.33 1
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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.

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* atf-cui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d7877c5c0f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
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    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
        <xsl:call-template name="isc.copyright.format">
            <xsl:with-param name="text" select="$rest"/>
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        <xsl:with-param name="text">
            <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
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                <xsl:call-template name="copyright.years">
                    <xsl:with-param name="years" select="year"/>
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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c8f2bb5b6.

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

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* 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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xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<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: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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<xsl:template name="isc.copyright.format">
<xsl:param name="text"/>
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text">
<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
<xsl:text>Copyright (C) </xsl:text>
<xsl:call-template name="copyright.years">
<xsl:with-param name="years" select="year"/>
</xsl:call-template>
</xsl:for-each>
</xsl:with-param>
</xsl:call-template>
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1.92 zlib 1.2.11

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1.93 jctools-core 2.1.1

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

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

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

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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:

```python

```
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and
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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
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
references to Ghostscript; clarified derivation from RFC 1321;
now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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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
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- Arguments more compliant with Python standard

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--------------------------
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Select kqueue
-------------

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strtod and dtoa
---------------

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<table>
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<th>Year</th>
<th>Owner</th>
<th>GPL-compatible?</th>
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<td>yes</td>
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<td>2.1.1</td>
<td>2001-now</td>
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</table>

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1.100 netty-resolver 4.1.43

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1.101 spring cloud starter openfeign 2.2.0

1.102 libevent 2.1.8-stable

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1.104 file 5.32

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1.105 spring cloud netflix ribbon 2.2.0

1.106 certifi 2018.1.18

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This package contains a modified version of ca-bundle.crt:

```
cacert.cer -- 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.tra). 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: certifi.cer,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
Metadata-Version: 1.1
Name: certifi
Version: 2018.1.18
Summary: Python package for providing Mozilla's CA Bundle.
Home-page: http://certifi.io/
Author: Kenneth Reitz
Author-email: me@kennethreitz.com
License: MPL-2.0
Description: Certifi: Python SSL Certificates

`Certifi` is a carefully curated collection of Root Certificates for
validating the trustworthiness of SSL certificates while verifying the identity
of TLS hosts. It has been extracted from the `Requests` project.

Installation

------------
``certifi`` is available on PyPI. Simply install it with ``pip``:

$ pip install certifi

Usage
-----

To reference the installed certificate authority (CA) bundle, you can use the built-in function:

>>> import certifi

>>> certifi.where()
'/:usr/local/lib/python2.7/site-packages/certifi/cacert.pem'

Enjoy!

1024-bit Root Certificates
~~~~~~~~~~~~~~~~~~~~~~~~~~

Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, ``certifi`` removed them as well.

In previous versions, ``certifi`` provided the ``certifi.old_where()`` function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old code, the function ``certifi.old_where()`` continues to exist as an alias of ``certifi.where()``. Please update your code to use ``certifi.where()`` instead. ``certifi.old_where()`` will be removed in 2018.

.. _`Requests`: http://docs.python-requests.org/en/latest/

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Classifier: License :: OSI Approved :: Mozilla Public License 2.0 (MPL 2.0)
Classifier: Natural Language :: English
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
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 $

1.107 libcap-ng 0.7.7-3+b1
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1.110 insserv 1.14.0-5.4+b1

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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);
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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 _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))
#endif
#endif

/* 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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*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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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 POLLIN 0x0001
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRD_NORM 0x0040
#define POLLWR_NORM POLLHUP
#define POLLNORM POLLRD_NORM
#endif

#define INFTIM (-1) /* not standard */
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

1.112 libsemanage 2.6-2
1.112.1 Available under license :

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27
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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsofwaresoolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49
+0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Open Source Used In MSX SD-WAN Service Pack 3.8.0947

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (roggeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUF.KE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganssauge -at- HAUF.KE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmx.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jajarvi -at- osl.iai.ee)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at- crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjønnes (larsbj@lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- illl.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (kremp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University ()
The Trustees of Indiana University ()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)
Toon Knapen (toon dot knapen - at - fft.be)
University of Notre Dame ()
Vladimir Prus (ghost@cs.msu.su)
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
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1.126 libpcap 1.8.1

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1.129 tzdata 2018d 1

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1.132 reactive-streams 1.0.3

1.133 commons-lang 3.9
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1.141 jnr-posix 3.0.44

1.142 kryo 4.0.2

1.143 websocket-api 9.4.24.v20191120

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.147 libsodium 1.0.16 1.el7

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1.148 create-hash 1.2.0

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1.149 jaxb-runtime 2.3.1

1.150 brave-instrumentation-httpasyncclient 5.9.0

1.151 asm 2010.02.05

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1.153 nvd3-js 1.8.6

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1.162 servo-core 0.12.21

1.163 lz4-java 1.6.0
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1.166 spring-cloud-starter-consul-config 2.2.0

1.167 zlib 1.2.8.dfsig 5
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1.170 hdrhistogram 2.1.11

1.171 libcpuid 0.4.0
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1.172 reflectasm 1.11.3

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1.175 pbkdf2 3.0.17

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1.180 libxext 1.3.3 1+b2

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1.182 ui-router-core 6.0.3
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1.183 shadow-securetty 4.6

1.184 consul-api 1.4.1

1.185 spring-security-jwt 1.0.10

1.186 gmp 6.1.2+dfsg 1

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1.188 pam 1.3.0
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1.189 angular-socket-io 0.7.0

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1.190 iperf 2.0.13

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Mark Gates
Ajay Tirumala
Jim Ferguson
Jon Dugan
Feng Qin
Kevin Gibbs
John Estabrook
National Laboratory for Applied Network Research
National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
http://www.ncsa.uiuc.edu

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Last modified: Jan 5, 2004

/* Getopt for GNU.
 NOTE: gnu_getopt is now part of the C library, so if you don't know what
 "Keep this file name-space clean" means, talk to roland@gnu.ai.mit.edu
 before changing it!

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/ *
* modified July 9, 1999 by mark gates <mgates@nlanr.net>
   Dec 17, 1999
*
* renamed all functions and variables by prepending "gnu_"
* removed/redid a bunch of stuff under the assumption we're
* using a modern standard C compiler.
* add #include <string.h> here for strncmp(). Originally
* it was included only under special conditions.
*
* $Id: gnu getopt.c,v 1.1.1.1 2004/05/18 01:50:44 kgibbs Exp $
*/

#include <stdio.h>
#include <stdlib.h>
#ifndef _MSC_VER /* Visual C++ doesn't have unistd.h */
   #include <unistd.h>
#endif
#include <string.h>
#ifndef _
/* This is for other GNU distributions with internationalized messages.
   When compiling libc, the _ macro is predefined. */
#if defined HAVE_LIBINTL_H
   #include <libintl.h>
   #define _(msgid)gettext (msgid)
#endif

/* This version of `gnu_getopt' appears to the caller like standard
Unix `getopt' but it behaves differently for the user, since it
allows the user to intersperse the options with the other
arguments.

As `gnu_getopt' works, it permutes the elements of ARGV so that,
when it is done, all the options precede everything else. Thus
all application programs are extended to handle flexible argument order.

Setting the environment variable POSIXLY_CORRECT disables permutation.
Then the behavior is completely standard.

GNU application programs can use a third alternative mode in which
they can distinguish the relative order of options and other arguments. */

#include "gnu_getopt.h"

#ifdef __cplusplus
extern "C" {
#endif

/* For communication from `gnu_getopt' to the caller.
When `gnu_getopt' finds an option that takes an argument,
the argument value is returned here.
Also, when `ordering' is RETURN_IN_ORDER,
each non-option ARGV-element is returned here. */

char *gnu_optarg = NULL;

/* Index in ARGV of the next element to be scanned.
This is used for communication to and from the caller
and for communication between successive calls to `gnu_getopt'.

On entry to `gnu_getopt', zero means this is the first call; initialize.

When `gnu_getopt' returns -1, this is the index of the first of the
non-option elements that the caller should itself scan.

Otherwise, `gnu_optind' communicates from one call to the next
how much of ARGV has been scanned so far. */

/* 1003.2 says this must be 1 before any call. */
int gnu_optind = 1;

#ifdef __cplusplus
}
#endif
/* Formerly, initialization of gnu_getopt depended on gnu_optind==0, which causes problems with re-calling gnu_getopt as programs generally don't know that. */

int __gnu_getopt_initialized = 0;

/* The next char to be scanned in the option-element in which the last option character we returned was found. This allows us to pick up the scan where we left off. 

If this is zero, or a null string, it means resume the scan by advancing to the next ARGV-element. */

static char *nextchar;

/* Callers store zero here to inhibit the error message for unrecognized options. */

int gnu_opterr = 1;

/* Set to an option character which was unrecognized. This must be initialized on some systems to avoid linking in the system's own gnu_getopt implementation. */

int gnu_optopt = '?';

/* Describe how to deal with options that follow non-option ARGV-elements. 

If the caller did not specify anything, the default is REQUIRE_ORDER if the environment variable POSIXLY_CORRECT is defined, PERMUTE otherwise. 

REQUIRE_ORDER means don't recognize them as options; stop option processing when the first non-option is seen. This is what Unix does. 

This mode of operation is selected by either setting the environment variable POSIXLY_CORRECT, or using `+' as the first character of the list of option characters. 

PERMUTE is the default. We permute the contents of ARGV as we scan, so that eventually all the non-options are at the end. This allows options to be given in any order, even with programs that were not written to expect this. 

RETURN_IN_ORDER is an option available to programs that were written to expect options and other ARGV-elements in any order and that care about the ordering of the two. We describe each non-option ARGV-element
as if it were the argument of an option with character code 1.
Using `-' as the first character of the list of option characters
selects this mode of operation.

The special argument `--' forces an end of option-scanning regardless
of the value of `ordering'. In the case of RETURN_IN_ORDER, only
`--' can cause `gnu_getopt' to return -1 with `gnu_optind' != ARGC. */

static enum {
  REQUIRE_ORDER, PERMUTE, RETURN_IN_ORDER
} ordering;

/* Value of POSIXLY_CORRECT environment variable. */
static char *posixly_correct;

/* Avoid depending on library functions or files
whose names are inconsistent. */

static char *
my_index( const char* str, int chr ) {
  while ( *str ) {
    if ( *str == chr )
      return(char *) str;
    str++;
  }
  return 0;
}

/* Handle permutation of arguments. */

/* Describe the part of ARGV that contains non-options that have
been skipped. `first_nonopt' is the index in ARGV of the first of them;
`last_nonopt' is the index after the last of them. */

static int first_nonopt;
static int last_nonopt;

/* Exchange two adjacent subsequences of ARGV.
One subsequence is elements [first_nonopt,last_nonopt)
which contains all the non-options that have been skipped so far.
The other is elements [last_nonopt,gnu_optind), which contains all
the options processed since those non-options were skipped.

`first_nonopt' and `last_nonopt' are relocated so that they describe
the new indices of the non-options in ARGV after they are moved. */
static void exchange( char **argv );

static void
exchange( char **argv ) {
    int bottom = first_nonopt;
    int middle = last_nonopt;
    int top = gnu_optind;
    char *tem;

    /* Exchange the shorter segment with the far end of the longer segment.
     * That puts the shorter segment into the right place.
     * It leaves the longer segment in the right place overall,
     * but it consists of two parts that need to be swapped next. */

    while ( top > middle && middle > bottom ) {
        if ( top - middle > middle - bottom ) {
            /* Bottom segment is the short one. */
            int len = middle - bottom;
            register int i;

            /* Swap it with the top part of the top segment. */
            for ( i = 0; i < len; i++ ) {
                tem = argv[bottom + i];
                argv[bottom + i] = argv[top - (middle - bottom) + i];
                argv[top - (middle - bottom) + i] = tem;
            }
            /* Exclude the moved bottom segment from further swapping. */
            top -= len;
        } else {
            /* Top segment is the short one. */
            int len = top - middle;
            register int i;

            /* Swap it with the bottom part of the bottom segment. */
            for ( i = 0; i < len; i++ ) {
                tem = argv[bottom + i];
                argv[bottom + i] = argv[middle + i];
                argv[middle + i] = tem;
            }
            /* Exclude the moved top segment from further swapping. */
            bottom += len;
        }
    }

    /* Update records for the slots the non-options now occupy. */

    first_nonopt += (gnu_optind - last_nonopt);
    last_nonopt = gnu_optind;
}
/* Initialize the internal data when the first call is made. */

static const char *
.gnu_getopt_initialize( int argc,
         char *const * argv,
         const char *optstring );

static const char *
.gnu_getopt_initialize( int argc,
         char *const * argv,
         const char *optstring ) {

/* Start processing options with ARGV-element 1 (since ARGV-element 0
   is the program name); the sequence of previously skipped
   non-option ARGV-elements is empty. */

first_nonopt = last_nonopt = gnu_optind = 1;

nextchar = NULL;

posixly_correct = getenv("POSIXLY_CORRECT");

/* Determine how to handle the ordering of options and nonoptions. */

if ( optstring[0] == '-' ) {
   ordering = RETURN_IN_ORDER;
   ++optstring;
} else if ( optstring[0] == '+' ) {
   ordering = REQUIRE_ORDER;
   ++optstring;
} else if ( posixly_correct != NULL )
   ordering = REQUIRE_ORDER;
else
   ordering = PERMUTE;

return optstring;
}

/* Scan elements of ARGV (whose length is ARGC) for option characters
given in OPTSTRING.

If an element of ARGV starts with '-', and is not exactly "-" or "--",
then it is an option element. The characters of this element
(aside from the initial '-') are option characters. If `gnu_getopt'
is called repeatedly, it returns successively each of the option characters
from each of the option elements."
If `gnu_getopt' finds another option character, it returns that character, updating `gnu_optind' and `nextchar' so that the next call to `gnu_getopt' can resume the scan with the following option character or ARGV-element.

If there are no more option characters, `gnu_getopt' returns -1. Then `gnu_optind' is the index in ARGV of the first ARGV-element that is not an option. (The ARGV-elements have been permuted so that those that are not options now come last.)

OPTSTRING is a string containing the legitimate option characters. If an option character is seen that is not listed in OPTSTRING, return '?' after printing an error message. If you set `gnu_opterr' to zero, the error message is suppressed but we still return '?'.

If a char in OPTSTRING is followed by a colon, that means it wants an arg, so the following text in the same ARGV-element, or the text of the following ARGV-element, is returned in `gnu_optarg'. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in `gnu_optarg', otherwise `gnu_optarg' is set to zero.

If OPTSTRING starts with `-.' or `+', it requests different methods of handling the non-option ARGV-elements. See the comments about RETURN_IN_ORDER and REQUIRE_ORDER, above.

Long-named options begin with `--' instead of `-'. Their names may be abbreviated as long as the abbreviation is unique or is an exact match for some defined option. If they have an argument, it follows the option name in the same ARGV-element, separated from the option name by a `=', or else the in next ARGV-element. When `gnu_getopt' finds a long-named option, it returns 0 if that option's `flag' field is nonzero, the value of the option's `val' field if the `flag' field is zero.

The elements of ARGV aren't really const, because we permute them. But we pretend they're const in the prototype to be compatible with other systems.

LONGOPTS is a vector of `struct option' terminated by an element containing a name which is zero.

LONGIND returns the index in LONGOPT of the long-named option found. It is only valid when a long-named option has been found by the most recent call.

If LONG_ONLY is nonzero, `-.' as well as `--' can introduce long-named options. */
# GNU getopt

```c
__gnu_getopt_internal( int argc,
    char *const *argv,
    const char *optstring,
    const struct option *longopts,
    int *longind,
    int long_only ) {

  gnu_optarg = NULL;

  if ( !__gnu_getopt_initialized || gnu_optind == 0 ) {
    optstring = _gnu_getopt_initialize (argc, argv, optstring);
    gnu_optind = 1;       /* Don't scan ARGV[0], the program name. */
    __gnu_getopt_initialized = 1;
  }

  /* Test whether ARGV[gnu_optind] points to a non-option argument.
     Either it does not have option syntax, or there is an environment flag
     from the shell indicating it is not an option. The later information
     is only used when the used in the GNU libc. */

#define NONOPTION_P (argv[gnu_optind][0] != '-' || argv[gnu_optind][1] == '\0')

  if ( nextchar == NULL || *nextchar == '\0' ) {
    /* Advance to the next ARGV-element. */

    /* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been
       moved back by the user (who may also have changed the arguments). */
    if ( last_nonopt > gnu_optind )
      last_nonopt = gnu_optind;
    if ( first_nonopt > gnu_optind )
      first_nonopt = gnu_optind;

    if ( ordering == PERMUTE ) {
      /* If we have just processed some options following some non-options,
         exchange them so that the options come first. */

      if ( first_nonopt != last_nonopt && last_nonopt != gnu_optind )
        exchange ((char **) argv);
      else if ( last_nonopt != gnu_optind )
        first_nonopt = gnu_optind;

      /* Skip any additional non-options
         and extend the range of non-options previously skipped. */

      while ( gnu_optind < argc && NONOPTION_P )
        gnu_optind++;
      last_nonopt = gnu_optind;
    }
}
```
/* The special ARGV-element `--' means premature end of options.
   Skip it like a null option,
   then exchange with previous non-options as if it were an option,
   then skip everything else like a non-option. */

if ( gnu_optind != argc && !strcmp (argv[gnu_optind], "--") ) {
    gnu_optind++;

    if ( first_nonopt != last_nonopt && last_nonopt != gnu_optind )
        exchange((char **) argv);
    else if ( first_nonopt == last_nonopt )
        first_nonopt = gnu_optind;
    last_nonopt = argc;
    gnu_optind = argc;
}

/* If we have done all the ARGV-elements, stop the scan
   and back over any non-options that we skipped and permuted. */

if ( gnu_optind == argc ) {
    /* Set the next-arg-index to point at the non-options
       that we previously skipped, so the caller will digest them. */
    if ( first_nonopt != last_nonopt )
        gnu_optind = first_nonopt;
    return -1;
}

/* If we have come to a non-option and did not permute it,
   either stop the scan or describe it to the caller and pass it by. */

if ( NONOPTION_P ) {
    if ( ordering == REQUIRE_ORDER )
        return -1;
    gnu_optarg = argv[gnu_optind++];
    return 1;
}

/* We have found another option-ARGV-element.
   Skip the initial punctuation. */

nextchar = (argv[gnu_optind] + 1
            + (longopts != NULL && argv[gnu_optind][1] == '-'));

/* Decode the current option-ARGV-element. */

/* Check whether the ARGV-element is a long option.
If long_only and the ARGV-element has the form "-f", where f is a valid short option, don't consider it an abbreviated form of a long option that starts with f. Otherwise there would be no way to give the -f short option.

On the other hand, if there's a long option "fubar" and the ARGV-element is "-fu", do consider that an abbreviation of the long option, just like "--fu", and not "-f" with arg "u".

This distinction seems to be the most useful approach. */

if ( longopts != NULL
    && (argv[gnu_optind][1] == '-'
        || (long_only && (argv[gnu_optind][2] || !my_index (optstring, argv[gnu_optind][1])))) ) {
    char *nameend;
    const struct option *p;
    const struct option *pfound = NULL;
    int exact = 0;
    int ambig = 0;
    int indfound = -1;
    int option_index;

    for ( nameend = nextchar; *nameend && *nameend != '='; nameend++ ) /* Do nothing. */ ;

    /* Test all long options for either exact match or abbreviated matches. */
    for ( p = longopts, option_index = 0; p->name; p++, option_index++ )
        if ( !strncmp (p->name, nextchar, nameend - nextchar) ) {
            if ( (unsigned int) (nameend - nextchar)
                == (unsigned int) strlen (p->name) ) {
                /* Exact match found. */
                pfound = p;
                indfound = option_index;
                exact = 1;
                break;
            } else if ( pfound == NULL ) {
                /* First nonexact match found. */
                pfound = p;
                indfound = option_index;
            } else {
                /* Second or later nonexact match found. */
                ambig = 1;
            }

            if ( ambig && !exact ) {
                if ( gnu_opterr )

                /* Set error message. */
                if ( pfound->val ) { /* Set the argument. */
                    optarg = optarg ? optarg : pfound->val;
                } else /* pfound does not have an argument. */
                    optarg = pfound->val;

                /* Display error message and return -1. */

                return opterr ( optname, optarg );
            }

            if ( !exact ) {
                /* Abbreviation. */
                /* For exactly one nonexact match, report an ambiguous arg.
                 * Check int exact first.  */
                if ( exact )
                    goto endloop;

                /* If exact match found, set exact to 1 and break. */
                if ( nameend != nextchar )
                    break;

                /* If no exact match found, continue. */
            }

            /* Back up to next option. */

            /* If exact match found, break out of for loop. */
        } else {
            /* Abbreviation. */
            /* For multiple nonexact matches, report an ambiguous arg.
             * Check int ambig first. */
            if ( ambig )
                goto endloop;

            /* If nonexact match found, set ambig to 1 and break. */
            if ( nameend != nextchar )
                break;

            /* If no nonexact match found, continue. */
        }
fprintf(stderr, _("%s: option `%s' is ambiguous\n"),
    argv[0], argv[gnu_optind]);
nextchar += strlen(nextchar);
gnu_optind++;
gnu_optopt = 0;
return '?';
}

if ( pfound != NULL ) {
    option_index = indfound;
gnu_optind++;
    if (*nameend) {
        /* Don't test has_arg with >, because some C compilers don't
         * allow it to be used on enums. */
        if ( pfound->has_arg )
            gnu_optarg = nameend + 1;
        else {
            if ( gnu_opterr )
                if ( argv[gnu_optind - 1][1] == '-' ) {
                    /* --option */
                    fprintf(stderr,
                        _("%s: option `--%s' doesn't allow an argument\n"),
                        argv[0], pfound->name);
                } else {
                    /* +option or -option */
                    fprintf(stderr,
                        _("%s: option `%c%s' doesn't allow an argument\n"),
                        argv[0], argv[gnu_optind - 1][0], pfound->name);
                }
        }
    }
    nextchar += strlen(nextchar);

    gnu_optopt = pfound->val;
    return '?';
}
} else if ( pfound->has_arg == 1 ) {
    if ( gnu_optind < argc )
        gnu_optarg = argv[gnu_optind++];
    else {
        if ( gnu_opterr )
            fprintf(stderr,
                _("%s: option `%s' requires an argument\n"),
                argv[0], argv[gnu_optind - 1]);
        nextchar += strlen(nextchar);
        gnu_optopt = pfound->val;
        return optstring[0] == ':' ? ':' : '?';
    }
}
nextchar += strlen (nextchar);
if ( longind != NULL )
*longind = option_index;
if ( pfound->flag ) {
*(pfound->flag) = pfound->val;
return 0;
}
return pfound->val;
}
/* Can't find it as a long option. If this is not gnu_getopt_long_only,
or the option starts with '--' or is not a valid short
option, then it's an error.
Otherwise interpret it as a short option. */
if ( !long_only || argv[gnu_optind][1] == '-'
|| my_index (optstring, *nextchar) == NULL ) {
if ( gnu_opterr ) {
if ( argv[gnu_optind][1] == '-' )
/* --option */
fprintf (stderr, _("%s: unrecognized option `--%s'\n"),
argv[0], nextchar);
else
/* +option or -option */
fprintf (stderr, _("%s: unrecognized option `%c%s'\n"),
argv[0], argv[gnu_optind][0], nextchar);
}
nextchar = (char *) "";
gnu_optind++;
gnu_optopt = 0;
return '?';
}
}
/* Look at and handle the next short option-character. */
{
char c = *nextchar++;
char *temp = my_index (optstring, c);
/* Increment `gnu_optind' when we start to process its last character. */
if ( *nextchar == '\0' )
++gnu_optind;
if ( temp == NULL || c == ':' ) {
if ( gnu_opterr ) {
if ( posixly_correct )
/* 1003.2 specifies the format of this message. */

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fprintf(stderr, "(%s: illegal option -- %c\n"),
    argv[0], c);
else
    fprintf(stderr, "(%s: invalid option -- %c\n"),
        argv[0], c);
}
gnu_optopt = c;
return '?';
}/* Convenience. Treat POSIX -W foo same as long option --foo */
if ( temp[0] == 'W' && temp[1] == ':') {
    char *nameend;
    const struct option *p;
    const struct option *pfound = NULL;
    int exact = 0;
    int ambig = 0;
    int indfound = 0;
    int option_index;

/* This is an option that requires an argument. */
if ( *nextchar != '\0' ) {
    gnu_optarg = nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
   we must advance to the next element now. */
    gnu_optind++;
} else if ( gnu_optind == argc ) {
    if ( gnu_opterr ) {
/* 1003.2 specifies the format of this message. */
        fprintf(stderr, "(%s: option requires an argument -- %c\n"),
            argv[0], c);
    }
    gnu_optopt = c;
    if ( optstring[0] == ':'
        c = ':';
    else
        c = '?';
    return c;
} else
/* We already incremented `gnu_optind' once;
   increment it again when taking next ARGV-elt as argument. */
    gnu_optarg = argv[gnu_optind++];

/* gnu_optarg is now the argument, see if it's in the
   table of longopts. */

for ( nextchar = nameend = gnu_optarg; *nameend && *nameend != '='; nameend++)
/* Do nothing. */ ;
/* Test all long options for either exact match
or abbreviated matches. */
for ( p = longopts, option_index = 0; p->name; p++, option_index++ )
if ( !strncmp (p->name, nextchar, nameend - nextchar) ) {
if ( (unsigned int) (nameend - nextchar) == strlen (p->name) ) {
/* Exact match found. */
pfound = p;
indfound = option_index;
exact = 1;
break;
} else if ( pfound == NULL ) {
/* First nonexact match found. */
pfound = p;
indfound = option_index;
} else
/* Second or later nonexact match found. */
ambig = 1;
}
if ( ambig && !exact ) {
if ( gnu_opterr )
fprintf (stderr, _("%s: option `-W %s' is ambiguous\n"),
argv[0], argv[gnu_optind]);
nextchar += strlen (nextchar);
gnu_optind++;
return '?';
}
if ( pfound != NULL ) {
option_index = indfound;
if ( *nameend ) {
/* Don't test has_arg with >, because some C compilers don't
allow it to be used on enums. */
if ( pfound->has_arg )
gnu_optarg = nameend + 1;
else {
if ( gnu_opterr )
fprintf (stderr, _("\
%s: option `-W %s' doesn't allow an argument\n"),
argv[0], pfound->name);
nextchar += strlen (nextchar);
return '?';
}
} else if ( pfound->has_arg == 1 ) {
if ( gnu_optind < argc )
gnu_optarg = argv[gnu_optind++];
else {
if ( gnu_opterr )
fprintf (stderr,

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_("%s: option `\%s' requires an argument\n"),
argv[0], argv[gnu_optind - 1]);

nextchar += strlen (nextchar);
return optstring[0] == ':' ? ':' : '?';
}

nextchar += strlen (nextchar);
if ( longind != NULL )
    *longind = option_index;
if ( pfound->flag )
    *(pfound->flag) = pfound->val;
return 0;
}

return pfound->val;
}

nextchar = NULL;
return 'W'; /* Let the application handle it. */
}

if ( temp[1] == ':' ) {
    if ( temp[2] == ':' ) {
        /* This is an option that accepts an argument optionally. */
        if ( *nextchar != '\0' ) {
            gnu_optarg = nextchar;
            gnu_optind++;
        } else
            gnu_optarg = NULL;
        nextchar = NULL;
    } else {
        /* This is an option that requires an argument. */
        if ( *nextchar != '\0' ) {
            gnu_optarg = nextchar;
            /* If we end this ARGV-element by taking the rest as an arg,
            we must advance to the next element now. */
            gnu_optind++;
        } else if ( gnu_optind == argc ) {
            if ( gnu_opterr ) {
                /* 1003.2 specifies the format of this message. */
                fprintf (stderr,
                    _("%s: option requires an argument -- %c\n"),
                    argv[0], c);
                }
            gnu_optopt = c;
            if ( optstring[0] == ':'
                c = ':';
            else
                c = '?';
        } else {
            /* We already incremented `gnu_optind' once;
increment it again when taking next ARGV-elt as argument. */
gnu_optarg = argv[gnu_optind++];
nextchar = NULL;
}
}
return c;
}
}

int
gnu_getopt ( int argc,
char *const *argv,
const char *optstring ) {
return __gnu_getopt_internal (argc, argv, optstring,
(const struct option *) 0,
(int *) 0,
0);
}
#endif
#endif

#define TEST

/* Compile with -DTEST to make an executable for use in testing
 the above definition of `gnu_getopt'. */

int
main (argc, argv)
int argc;
char **argv;
{
int c;
int digit_optind = 0;

while ( 1 ) {
    int this_option_optind = gnu_optind ? gnu_optind : 1;

    c = gnu_getopt (argc, argv, "abc:d:0123456789");
    if ( c == -1 )
        break;

    switch ( c ) {
    case '0':
    case '1':
    case '2':
case '3':
case '4':
case '5':
case '6':
case '7':
case '8':
case '9':
    if ( digit_optind != 0 && digit_optind != this_option_optind )
        fprintf ( stderr, "digits occur in two different argv-elements\n" );
    digit_optind = this_option_optind;
    fprintf ( stderr, "option %c\n", c );
    break;

case 'a':
    fprintf ( stderr, "option a\n" );
    break;

case 'b':
    fprintf ( stderr, "option b\n" );
    break;

case 'c':
    fprintf ( stderr, "option c with value '%s'\n", gnu_optarg );
    break;

case '?':
    break;

default:
    fprintf ( stderr, "?? gnu_getopt returned character code 0%o ??\n", c );

if ( gnu_optind < argc ) {
    fprintf ( stderr, "non-option ARGV-elements: ");
    while ( gnu_optind < argc )
        fprintf ( stderr, "%s", argv[gnu_optind++] );
    fprintf ( stderr, "\n" );
}
exit (0);
}
#endif /* TEST */
1.191 zipkin-sender-activemq-client 2.11.0

1.192 startpar 0.59-3.1

1.192.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
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Upstream-Contact: Petter Reinholdtsen <pere@hungry.com>
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1.194 inherits 2.0.3

1.195 libxtst 1.2.3-1

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1.196 p11-kit 0.23.3 2

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1.197 angular-ui-bootstrap 1.3.3

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1.199 libmpc 1.1.0
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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

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

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

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1.201 wget 1.19.5
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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

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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.

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org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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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 3a0982da308228d796df35f98d787c5c6f2bb5b6.

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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1.233 python-requests 2.18.4-r0

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1.234.1 tslib 1.10.0

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1.236 typetools 0.5.0

1.237 rx-netty-servo 0.4.9

1.238 jakarta-validation-api 2.0.1
1.238.1 Available under license:
   Bean Validation API

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1.239 websocket-server 9.4.24.v20191120
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

------

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.
The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies. This program and the accompanying materials are made available under the terms of the Eclipse Public License 2.0 which is available at http://www.eclipse.org/legal/epl-2.0, or the Apache Software License 2.0 which is available at https://www.apache.org/licenses/LICENSE-2.0.

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

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

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

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

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1.260 javax-websocket-server-impl
9.4.24.v20191120
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* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.261 libgmp 2:6.1.2+dfsg-2

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org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
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1.263 diffutils 3.5-3

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1.266 libgcrypt 1.7.6 2+deb9u3

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Authors with a FSF copyright assignment
==============================================

LIBGCRYPT Werner Koch 2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
hn@df.lth.se
Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c, g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode, CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
Authors with a DCO
==================

Andrei Scherer <andsch@inbox.com>
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

Jrmie Courrges-Anglas <jca@wxcvbn.org>
2016-05-26:87bn3ssqg0.fsf@ritchie.wxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537zb5i6jmy8@www.dalek.fi:

Jussi Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>
2014-10-08:20141008180509.GA2770@trolle:

Milan Broz <gmazyland@gmail.com>
2014-01-13:52D44CC6.4050707@gmail.com:

Peter Wu <peter@lekensteyn.nl>
2015-07-22:20150722191325.GA8113@al:

Rafal Carr <funman@videolan.org>
2012-04-20:4F91988B.1080502@videolan.org:

Sergey V. <sftp.mtuci@gmail.com>
2013-11-07:2066221.51Ya7Yq760@darkstar:

Stephan Mueller <smueller@chronox.de>
2014-08-22:2008899.25OeoelVVA@myon.chronox.de:
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## 1.268 e2fsprogs 1.43.8

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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

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Theodore Ts'o
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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 the Debian GNU/Linux prepackaged version of the ss command-line interface parsing 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:
From the original distribution:

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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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# 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"
@mktouch -p pic

BSDLIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
'image::$(BSDLIB_PIC_FLAG)

$(BSDLIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSDLIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$BSDLIB .
$(RM) -f ../$(BSDLIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) $(my_dir) | sed -e 's;lib/;;' $(BSDLIB) $(BSDLIB))

install-shlibs install:: $(BSDLIB_PIC_FLAG)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install-shlibs

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 package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs
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
- 
- Copyright (C) Andrew Tridgell 2005
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 Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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1.269 socket-io-client 2.2.0

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1.270 types-jquery 3.3.31

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1.272 iperf 3.5

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1.273 byte-buddy 1.10.4

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1.274 spring-cloud-sleuth-zipkin 2.2.0

1.275 pcsc-lite 1.8.20 1

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* Alice Bevan-McGregor
* Arfrever Frehtes Taifersar Arahesis
* Christophe Combelles
* Daniel Stutzbach
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* Donald Stufft
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<signature of Ty Coon>, 1 April 1989
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--------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#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) = $output =~ /copyright 1987.*\d{4,}/i
  or die "Copyright statement not found in perl -v output '$output'";
$year;
}
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
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  version: 3

1.279 fdisk 2.29.2-1+deb9u1
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   H:Oed18uyMQ9|FO6
   87I8.mhGi\eb_X/UQKuB
   )Cd!B_Mv/tw]|11np#._~uM%S61opMG`\YfRXvY[R+t[ BS=)d
   *l;_~KfBqxY(F[0.Ve%S61opMG`\YfRXvY[R+t[ BS=)d
   *l;_~KfBqxYm+s+$|11np#._~uM%S61opMG`\YfRXvY[R+t[ BS=)d
   *l;_~KfBqxY(F[0.Ve%S61opMG`\YfRXvY[R+t[ BS=)d
   *s$]|11np#._~u7gi][IgYZ
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1.280 spring-cloud-starter-netflix-archaius

2.2.0

1.281 gcc 8.2.0

1.281.1 Available under license:

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bde@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(agr@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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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<td>lib/interception/mach_override</td>
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<td>mach_override</td>
<td>lib/interception/mach_override</td>
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<link rel="up" href="status.html" title="Chapter1.Status" />
<link rel="prev" href="status.html" title="Chapter1.Status" />
<link rel="next" href="bugs.html" title="Bugs" />
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to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
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@end smallexample
Also add information on how to contact you by electronic and paper mail.

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

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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#!/usr/bin/python

# Copyright (C) 2013-2018 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

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

import os
import re
import sys
import time
import subprocess

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

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

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

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

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

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltoulder.m4',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
return True
if os.path.exists (base + '.in'):
    return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years.  Include ',' for typos.
        ranges = '[0-9]+\[-0-9,.\s]\$+\s+)\[0-9]\]

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.\-]-'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '| name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (  # 1: 'Copyright (C)', etc.
            '([(Cc]opyright'  
            '([(Cc]opyright+\[(Cc])'  
            '([(Cc]opyright\s+\%s'  
            '([(Cc]opyright\s+&copy,'  
            '([(Cc]opyright\s+@copyright{ }‘  
            '\copyright = ut'  
            '@set\s+copyright[\w-]+‘

        # 2: the years.  Include the whitespace in the year, so that
# we can remove any excess.
'\s*(?:' + ranges + ')?'
'[@value\([^\[\]]*\)]s*')

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(' + name + '(?:\s?' + name + ')*)?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year
def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years
    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
holder = match.group (4)
return (holder
      and (holder not in self.holder_prefixes
           or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith (@set):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ":"

            self.errors.report (pathname,
                               @trailing characters in @set:
                               + after_years)
            return (False, orig_line, next_line)

    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ":" + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders
elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else '')
            + 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() + '
'

    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)
    mode = None
    with open(pathname, 'r') as file:
        prev = None
        mode = os.fstat(file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s' % line.strip())
                        lines.append(line)
                        line = next_line
                # If something changed, write the new file out.
                if changed and self.errors.ok():
                    tmp_pathname = pathname + '.tmp'
                    with open(tmp_pathname, 'w') as file:
                        for line in lines:
                            file.write(line)
                    os.fchmod(file.fileno(), mode)
                    if self.use_quilt:
                        subprocess.call(['quilt', 'add', pathname])
                    os.rename(tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)
def add_option (self, name, help, handler):
self.option_help.append ((name, help))
self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
self.dirs.append ((dir, filter))
def o_help (self, option = None):
sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
'Options:\n' % sys.argv[0])
format = '%-15s %s\n'
for (what, help) in self.option_help:
sys.stdout.write (format % (what, help))
sys.stdout.write ('\nDirectories:\n')
format = '%-25s'

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i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
    else:
        sys.stdout.write (format % dir)
sysexit (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 woend by anyone.
        ']}
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
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        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 LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_files |= set([
    # Contains no copyright of its own, but quotes the GPL.
    'intro.xml',
])

self.skip_dirs |= set([
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
])

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
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 ('gnatools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = ['gcc', 'include', 'libada', 'libatomic', 'libbacktrace', 'libcc1', 'libcpp', 'libdecmumber', 'libgcc', 'libgfortran', 'libgomp', 'libhsail-rt', 'libiberty', 'libitm', 'libobjc', 'libssp', 'libstdc++-v3', 'libvtv', 'lto-plugin',]

GCCCmdLine().main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

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

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which the executable runs, unless that component itself accompanies
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That's all there is to it!

/* Definitions for BSD assembler syntax for Intel 386
(actual AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* 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" /* 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 " HOST_WIDE_INT_PRINT_UNSIGNED\"u\", (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)))

#if HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL (FILE, NAME, SIZE, ALIGNMENT) 
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN (FILE,LOG) 
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class. 
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

1.282 python-pbr 3.1.1 2.el7ost

1.282.1 Available under license :

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/* _setjmp is implemented in setjmp.S */

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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.

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1.302 lettuce-core 5.2.1

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1.303 openjdk-7-jre 11.0.5+10-1~bpo9+1

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+++ b/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
@@ -26,6 +26,7 @@
 package build.tools.cldrconverter;
private static int getYear() {
-    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-        Locale.US).get(Calendar.YEAR);
+    Date date = new Date();
+    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+    }
+    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+    calendar.setTime(date);
+    return calendar.get(Calendar.YEAR);
}

    // no instantiation
--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
+++ b/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
@@ -33,9 +33,13 @@
import java.time.ZoneId;
import java.time.ZonedDateTime;
import java.util.ArrayList;
+import java.util.Calendar;
+import java.util.Date;
+import java.util.GregorianCalendar;
import java.util.List;
import java.util.Locale;
import java.util.Map;
+import java.util.TimeZone;
import java.util.TreeMap;

/**
@@ -225,8 +229,15 @@
+    
+    private static String getOpenJDKCopyright() {
-        int year = ZonedDateTime.now(ZonedDateTime.of("America/Los_Angeles"),).getYear();
+        Date date = new Date();
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+        }
+    }
GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
calendar.setTime(date);

int year = calendar.get(Calendar.YEAR);
return String.format(Locale.US, COPYRIGHT, year);
}
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  Louise Miller
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.317 metrics 4.1.1

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1.320 kerberos 1.15 1+deb9u1

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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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```
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lib/gssapi/mecglue/g_accept_sec_context.c
lib/gssapi/mecglue/g_acquire_cred.c
lib/gssapi/mecglue/g_canon_name.c
```
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.c
- 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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `~/src/lib/gssapi`, including the following files:

```
.. parsed-literal::

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

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

.. parsed-literal::

   include/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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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.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
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import sys
import re

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

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

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

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
# Check filename comment if present.
m = re.match(r'/\* ([^ \]*)( - .*)? */', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        line, sep, comment_part = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        comment_part, sep, line = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    if line.strip() != '':
        code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
1.321 shadow 4.4-4.1

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1.322 jetty-servlet 9.4.24.v20191120

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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**Oracle OpenJDK**

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. 
http://openjdk.java.net/legal/gplv2+ce.html

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**OW2**

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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**Apache**

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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**MortBay**

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.325 browserify-cipher 1.0.1

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

------

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

MortBay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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THE BASIC LIBRARY FUNCTIONS
-----------------------------

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Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
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1.329 syslinux 6.03

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.333 binutils 2.30

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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
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 bug fixes 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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1.336 tpm-quote-tools 1.0.1
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1.337 diffie-hellman 5.0.3
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1.338 expat 2.2.5-3

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1.339 core-module 1.2.3

1.340 minlog 1.3.0
1.341 esapi 2.2.0.0

1.342 spring-boot-autoconfigure 2.2.2

1.343 base-passwd 3.5.43

1.343.1 Available under license:

Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
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  o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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1.365 spring-beans 5.2.2

1.366 strace 4.20

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### 1.379 e2fsprogs 1.43.4 2+deb9u1

#### 1.379.1 Available under license:

```bash
#
# 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:$(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(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:: $(BSDLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Theodore Ts'o
23-June-2007

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
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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.]
@end display

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

@item
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.

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

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

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

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

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

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:

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

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

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

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

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

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

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

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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:

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

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

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
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Software Foundation; we sometimes make exceptions for this. Our
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DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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

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

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If distribution of object code is made by offering access to copy
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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


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

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

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

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
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which are not part of the work. For example, Corresponding Source
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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.

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

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

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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Eclipse

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  * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
  * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
  * org.eclipse.jetty.orbit:javax.mail.glassfish
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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.398 tar 1.29b 1.1

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1.400 spring-cloud-starter-zipkin 2.2.0

1.401 log4j-api 2.12.1
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1.406 gdb 8.0.1

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BEGIN!
FS="";
print "/* ==> Do not modify this file!!  " \
"".-. buffer-read-only: t -. - vi" \
":set ro:";
print "  It is created automatically by copying.awk.";
print " Modify copying.awk instead. <=== */";
print ""
print "#include "defs.h"
print "#include "command.h"
print "#include "gdbcmd.h"
print " static void show_copying_command (char *, int);"
print " static void show_warranty_command (char *, int);"
print " void _initialize_copying (void);"
print " static void";
print "show_copying_command (char *ignore, int from_tty);";
print "[";
}
NR == 1/[^ ]*15\. Disclaimer of Warranty\*[ ]*/$/{
if ($0 ~ //)
{
    printf " printf_filtered ("\n\n");\n";
} else if ($0 !~ /^\[^ ]*15\. Disclaimer of Warranty\[^ ]*/$)
{
    printf " printf_filtered ("\n"
    for (i = 1; i < NF; i++)
printf "%s\"", $i;
    printf "%s\n\n\n", $NF;
}
}[^ ]*15\. Disclaimer of Warranty\[^ ]*/$/{
print "]";
print "\n"
print "static void"
print "show_warranty_command (char *ignore, int from_tty)";
print "\n"
}[^ ]*15\. Disclaimer of Warranty\[^ ]*/$; /[^ ]*END OF TERMS AND CONDITIONS\[^ ]*/$/{
if (! ($0 ~ /[^ ]*END OF TERMS AND CONDITIONS\[^ ]*/$))
{
    printf " printf_filtered ("\n"
    for (i = 1; i < NF; i++)
printf "%s\"", $i;
    printf "%s\n\n\n\n", $NF;
}
} END{
print "]";
print "\n"
print "_void"
print "_initialize_copying (void)";
print "\n"
print " add_cmd ("copying\", no_set_class, show_copying_command,\n";
print " _("Conditions for redistributing copies of GDB\",\n";
print " &showlist);";
print " add_cmd ("warranty\", no_set_class, show_warranty_command,\n";
print " _("Various kinds of warranty you do not have\",\n";
print " &showlist);";
print "\n"
print "/\n"
print "/ For old-timers, allow \"info copying\", etc. */\nprint " add_info ("copying\", show_copying_command,\n";
print " _("Conditions for redistributing copies of GDB\")\n";
print " add_info ("warranty\", show_warranty_command,\n";
print " _("Various kinds of warranty you do not have.");"
print "]")";
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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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"""copyright.py
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Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

def get_update_list():
"""Return the list of files to update.

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Assumes that the current working directory when called is the root of the GDB source tree (NOT the gdb/ subdirectory!). The names of the files are relative to that root directory.

```python
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
return result
```

def update_files(update_list):
    """Update the copyright header of the files in the given list.
    We use gnulib's update-copyright script for that.
    """
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]
    # Process the output. Typically, a lot of files do not have
a copyright notice :-(. The update-copyright script prints a well defined warning when it did not find the copyright notice.

For each of those, do a sanity check and see if they may in fact have one. For the files that are found not to have one, we filter the line out from the output, since there is nothing more to do, short of looking at each file and seeing which notice is appropriate.

Too much work! (~4,000 files listed as of 2012-01-03).

```
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print *** + line
```

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root directory.

    The algorithm is fairly crude, meaning that it might return some false positives. I do not think it will return any false negatives... We might improve this function to handle more complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
return False
return False

def main():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright")::
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print '\033[31mREMINDER: The following files must be updated by hand.\033[0m'
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print '  ', filename

    #########################################################################
    # Some constants, placed at the end because they take up a lot of room.
    # The actual value of these constants is not significant to the understanding
    # of the script.
    #
    #########################################################################

    # Files which should not be modified, either because they are
    # generated, non-FSF, or otherwise special (e.g. license text,
    # or test cases which must be sensitive to line numbering).
    #
    # Filenames are relative to the root directory.
    EXCLUDE_LIST = (  
        'gdb/nat/glibc_thread_db.h',
        'gdb/CONTRIBUTE',
        'gdb/gnulib/import'
    )

    # Files which should not be modified, either because they are
    # generated, non-FSF, or otherwise special (e.g. license text,
    # or test cases which must be sensitive to line numbering).
    #
    # Matches any file or directory name anywhere. Use with caution.
    # This is mostly for files that can be found in multiple directories.
    # Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = ( 
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c", 
    "fdl.texi", "gpl.texi", "aclocal.m4", 
)

# The list of files to update by hand.
BY_HAND = ( 
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = ( 
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = ( 
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accep.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(!
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
)
if __name__ == '__main__':
    main()
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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function toggle_div(nm) {
    var w = document.getElementById(nm);
    if( w.style.display == "block" ){
        w.style.display = "none";
    } else {
        w.style.display = "block";
    }
}

function toggle_search() {
    var w = document.getElementById("searchmenu");
    if( w.style.display == "block" ){
        w.style.display = "none";
    } else {
        w.style.display = "block";
        setTimeout(function()
            document.getElementById("searchbox").focus()
            , 30);
    }
}

function div_off(nm){document.getElementById(nm).style.display="none";}

window.onbeforeunload = function(e){div_off("submenu");}
/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
    document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
    var x = document.getElementById(obj);
    var b = document.getElementById(btn);
    if( x.style.display!='none' ){
        x.style.display = 'none';
        b.innerHTML='show';
    }else{
        x.style.display = "";
        b.innerHTML='hide';
    }
    return false;
}
</script>
</div>

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1.411 x-is-array 0.1.0
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1.413 browser-split 0.0.1

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1.414 zipkin-sender-kafka 2.11.0

1.415 alsa-lib 1.1.35

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Received: from mailly.debian.org (mailly.debian.org [IPv6:2001:41b8:202:deb:6564:a62:52c3:4b72]) by tempesta.oskuro.net (Postfix) with ESMTPS id AC49F851E5 for <jordi@mallach.net>; Tue, 24 Jan 2017 15:59:16 +0100 (CET)
Received: from mga03.intel.com ([134.134.136.65]) by mailly.debian.org with esmtps (TLS1.2:ECDHE_RSA_AES_256_GCM_SHA384:256) (Exim 4.84_2)
(envelope-from <liam.r.girdwood@linux.intel.com>)
id 1cW2Z1-0003Ok-6u
for jordi@mallach.net; Tue, 24 Jan 2017 14:59:15 +0000
Received: from fmsmga003.fm.intel.com ([10.253.24.29]) by orsmga103.jf.intel.com with ESMTP; 24 Jan 2017 06:59:11 -0800
X-ExtLoop1: 1
X-IronPort-AV: E=Sophos;i="5.33,278,1477983600";
d="scan'208";a="812723074"
Received: from rkinsell-mobl.ger.corp.intel.com (HELO [10.252.0.71]) ([10.252.0.71]) by FMSMGA003.fm.intel.com with ESMTP; 24 Jan 2017 06:59:10 -0800
Message-ID: <1485269948.2625.50.camel@loki>
Subject: [PATCH] topology: Fix incorrect license in source comments.
From: Liam Girdwood <liam.r.girdwood@linux.intel.com>
To: Takashi Iwai <tiwai@suse.de>
Cc: "alsa-devel@alsa-project.org" <alsa-devel@alsa-project.org>, Jordi Mallach <jordi@debian.org>
Date: Tue, 24 Jan 2017 14:59:08 +0000
Content-Type: text/plain; charset="UTF-8"
X-Mailer: Evolution 3.10.4-0ubuntu2
Mime-Version: 1.0
X-Greylist: delayed 1269 seconds by postgrey-1.35 at mailly; Tue, 24 Jan 2017 14:59:15 UTC
X-Virus-Scanned: clamav-milter 0.99.2 at tempesta
X-Virus-Status: Clean
X-CRM114-Version: 20100106-BlameMichelson ( TRE 0.8.0 (BSD) ) MR-27CA1CFB
X-CRM114-CacheID: sfid-20170124_155916_844430_758DE97E
X-CRM114-Status: UNSURE ( 3.34 )
X-CRM114-Notice: Please train this message.
X-Evolution-Source: 1366923434.28278.16@penyagolosa
Content-Transfer-Encoding: 8bit
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Signed-off-by: Liam Girdwood <liam.r.girdwood@linux.intel.com>

---
src/topology/builder.c | 17 +++++++++--------
src/topology/channel.c | 17 +++++++++--------
src/topology/ctl.c | 17 +++++++++--------
src/topology/dapm.c | 17 +++++++++--------
src/topology/data.c | 17 +++++++++--------
src/topology/elem.c | 17 +++++++++--------
src/topology/ops.c | 17 +++++++++--------
src/topology/parser.c | 17 +++++++++--------
src/topology/pcm.c | 17 +++++++++--------
src/topology/text.c | 17 +++++++++--------
10 files changed, 90 insertions(+), 80 deletions(-)

diff --git a/src/topology/builder.c b/src/topology/builder.c
index 20fa925..dcd9e2a 100644
--- a/src/topology/builder.c
+++ b/src/topology/builder.c
@@ -2,14 +2,15 @@

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        Yao Jin <yao.jin@intel.com>
diff --git a/src/topology/channel.c b/src/topology/channel.c
index c2f1fea..8516b23 100644
--- a/src/topology/channel.c
+++ b/src/topology/channel.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/ctl.c b/src/topology/ctl.c
index 907a97f..1da3d18 100644
--- a/src/topology/ctl.c
+++ b/src/topology/ctl.c
@@ -2,14 +2,15 @@
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index 8c585a7..eef72bb 100644
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diff --git a/src/topology/data.c b/src/topology/data.c
index 0d5c430..e2aa38c 100644
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+++ b/src/topology/data.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/ops.c b/src/topology/ops.c
index 1b5c1e2..6f8dc1f 100644
--- a/src/topology/ops.c
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@@ -2,14 +2,15 @@
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@@ -2,14 +2,15 @@
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diff --git a/src/topology/parser.c b/src/topology/parser.c
index c5f9757..cfc20e0 100644
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2.9.3

1.416 netbsd-resolv 2.24 11+deb9u4

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Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5.

Michael Barone <michael.barone@lmco.com> GPSVME fixes

Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver

Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support

Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snntp

Jean-Francois Boudreault <Jean-Francois.Boudreault@viagene.qc.ca> IPv6 support

Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)

Steve Clift <clift@ml.csiro.au> OMEGA clock driver

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Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port

Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119

John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing

Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite

Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver

Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

Mike Iglesias <iglesias@uci.edu> DEC Alpha port

Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul

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Content starting in 2011 from Harlan Stenn, Danny Mayer, and Martin
Burnicki is:

*************************************************************
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3. [3] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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11. Jean-Francois Boudreault
   <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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17. Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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19. John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswEEP
27. Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
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31. Dave Katz <dkatz@cisco.com> RS/6000 AIX port
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33. George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
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copyright = {
    date = "1992-2017";
    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\`sed -e \"s/.*,\[\/\[.-/e \"s/M.*\[/ -z "$\{VERSION\}" && echo "Cannot determine VERSION" && kill -TERM $AG_pid` \\
[ -z "$\{VERSION\}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid \\
echo $VERSION`;

version-value = ""; /* Don't use -v as a shortcut for --version */

/*
 * HMS: man pages already have this, and texi pages can use the
 * values in sntp/include/version.texi.
 */

// doc-sub = {
//     sub-name = version;
//     sub-text = \"s/\#VERSION\/#<<version>>/g\";
// };

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Upstream Author(s):

Marcus Baker <xxx@yyy>
Joo Henrique F. Freitas <xxx@yyy>
Daniel Ferreira de Lima <xxx@yyy>
Tiago Octaviano Primini <xxx@yyy>
Thomas Nilsson <xxx@yyy>
Matt Hargrett <xxx@yyy>
Chris LeBlanc <xxx@yyy>
Georg Lohrer <xxx@yyy>
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1.432 springfox-core 2.9.2

1.433 rxjs 6.5.4

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1.434 crypto-browserify 3.12.0

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package io.swagger.annotations;

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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 "";
}

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1.451 feign-core 10.4.0

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1.462 elliptic 6.5.0

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1.494 ca-certificates-java 20170929~deb9u3

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1.497 ribbon-httpclient 2.3.0
1.498 libx11 1.6.4-3+deb9u1

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Files: getopt.c
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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 */

## 1.503 process-nextick-args v2.0.1

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1.505 objectweb-asm 7.1

1.506 spring-boot-starter-cache 2.2.2

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1.508 dojo-toolkit 1.15

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<one line to give the program's name and a brief idea of what it does.>
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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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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"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
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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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
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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
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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
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of these things:

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

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

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

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

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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.

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Email local part: ph10
Email domain: cam.ac.uk

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
<rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt
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Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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1.535 pycrypto 2.6.1
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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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
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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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1.545 netty-buffer 4.1.43
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1.546 python-idna 2.6

1.547 bzip2 1.0.6 8.1
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1.548 iputils s20161105

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1.549 shared-mime-info 1.9 2

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1.557 open-vm-tools 10.1.5

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1.561 mawk 1.3.3-17+b3

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.571 indexof 0.0.1

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1.576 spring-boot-actuator 2.2.2

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.592 jnr-x86asm 1.0.2
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```
-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>
```

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Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.600 is-object 1.0.1

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1.601 spring-boot-starter-aop 2.2.2

1.602 sysklogd 1.5.1 r0
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1.605 jetty-client 9.4.24.v20191120

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

  * javax.servlet:javax.servlet-api
  * javax.annotation:javax.annotation-api
  * javax.transaction:javax.transaction-api
  * javax.websocket:javax.websocket-api
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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.608 spring-data-cassandra 2.2.3

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@item
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1.624 freemarker 2.3.29
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1.627 hmac-drbg 1.0.1

1.628 python-six 1.11.0
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

#!perl

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

  $year;
}

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

  $year;
}

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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The End

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  repository: http://github.com/dagolden/module-build/
  version: 3

1.639 commons-collections 3.2.2
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Phil Carmody
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Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation
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Hardware I2C

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStar PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
   * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
   * Fix is simple: make large buffers large enough to hold entire
   * SDU, and leave <small_buffer_data> bytes empty at the start. Then
   * copy small buffer contents to head of large buffer.
   * Trick is to avoid fragmenting Linux, due to need for a lot of large
   * buffers. This is done by 2 things:
   * 1) skb->destructor / skb->atm.recycle_buffer
   * combined, allow nicstar_free_rx_skb to be called to
   * recycle large data buffers
   * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.659 jackson-module-parameter-names

2.10.1

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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1.679 j2objc-annotations 1.1

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From network_io/unix/inet_ntop.c, network_io/unix/inet_ntop.c:

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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*  * cvt - IEEE floating point formatting routines.
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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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<?xml version="1.0" encoding="UTF-8"?>

<!--
**Replaceable** 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 **Replaceable** 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".

**Replaceable** 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.
<p><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>.</p>

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

<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

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

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

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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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) {
    }

    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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1.680 ribbon-transport 2.3.0

1.681 good-listener 1.2.2
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1.682 libgnutls 3.6.1
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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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Other contributors include:
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Tollef Fog Heen <tfheen@debian.org>
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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1.689 libxi 1.7.9-1
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1.690 libusb 1.0.21

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1.696 spring-session-data-redis 2.2.0

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1.699 gson 2.8.5

1.700 util-deprecate 1.0.2

1.701 spring-security-config 5.2.1

1.702 c-ares 1.15.0

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1.703 zstd-jni 1.4.0 1

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1.704 json-java 20140107
1.705 animal-sniffer-annotation 1.14

1.706 browserify-resolve v1.15.0
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1.707 python-ndg-httpsclient 0.4.4
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**1.708 httpcomponents-client 4.5.9**

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1.710 spring-plugin-metadata 1.2.0

1.711 xalan xalan-j_2_4_1.1532554280.83
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DRuntime: Runtime Library for the D Programming Language

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.717 spring-boot-starter-security 2.2.2

1.718 angular 8.0.3
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.724 jquery 3.4.1

1.725 spring-boot-starter-data-cassandra

2.2.2
1.726 alsa 1.1.3 5

1.726.1 Available under license:

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1.727 i2c-tools 4.0

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</OL>

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

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