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Contents

1.1 readline 8.0

1.1.1 Available under license

1.2 readline 8.1

1.2.1 Available under license

1.3 githubcommodernngoconcurrent v0.0.0-20180306012644-bacd9c7ef1dd

1.3.1 Available under license

1.4 hashicorp-golang-lru v0.5.4

1.4.1 Available under license

1.5 lz4 1.8.0

1.5.1 Available under license

1.6 goautoneg v0.0.0-20191010083416-a7dc8b61c822

1.6.1 Available under license

1.7 go-codec v1.1.7

1.7.1 Available under license

1.8 gogo-protobuf v1.3.2

1.8.1 Available under license

1.9 githubcomimdariomergo v0.3.6

1.9.1 Available under license

1.10 msgpack 3.3.0

1.10.1 Available under license

1.11 tdb 1.45.5

1.11.1 Available under license

1.12 githubcomgooglegofuzz v1.2.0

1.12.1 Available under license

1.13 githubcommailrueasyjson v0.7.7

1.13.1 Available under license

1.14 github.com/muesli/reflow v0.3.0

1.14.1 Available under license

1.15 sigs-k8s-io-yaml v1.3.0

1.15.1 Available under license

1.16 libnsi 2.31

1.16.1 Available under license

1.17 tdb 1.46.5

1.17.1 Available under license

1.18 yaml v3.0.1

1.18.1 Available under license

1.19 go-spew v1.1.2-0.20180830191138-d8f796af33cc

1.19.1 Available under license

1.20 githubcomgoyamlyaml v2.4.0

1.20.1 Available under license

1.21 githubcomgoopenapiswag v0.22.3

1.21.1 Available under license

1.22 libhogweed6 3.8.1-2

1.22.1 Available under license

1.23 libnettle8 3.8.1-2

1.23.1 Available under license

1.24 libnsi 1.3.0-2build2

1.24.1 Available under license

1.25 github.com/atotto/clipboard v0.1.4

1.25.1 Available under license

1.26 command-line-arguments (devel)

1.26.1 Available under license

1.27 netbase 6.4

1.27.1 Available under license

1.28 x-time v0.3.0

1.28.1 Available under license

1.29 githubcomgoopenapijsonpointer v0.19.6

1.29.1 Available under license

1.30 sigs.k8s.io/json v0.0.0-20221116044647-bc3834ca7abd

1.30.1 Available under license

1.31 githubcomgoopenapijsonreference v0.20.2

1.31.1 Available under license

1.32 openssl 1.1.1t

1.32.1 Notifications

1.32.2 Available under license

1.33 jemalloc 5.3.0

1.33.1 Available under license

1.34 githubcommattngoisatty v0.0.19

1.34.1 Available under license

1.35 libldap-2.5-0 2.5.13+dfsg-5

1.35.1 Available under license

1.36 glibc 2.27-3ubuntu1.6

1.36.1 Available under license

1.37 libgcc-s1 12.2.0-14

1.37.1 Available under license

1.38 libstd-c 12.2.0-14

1.38.1 Available under license

1.39 libkeyutils 1.6.3-2

1.39.1 Available under license

1.40 libzstd1 1.5.4+dfsg2-5

1.40.1 Available under license

1.41 libsasl 2.1.28+dfsg-10

1.41.1 Available under license

1.42 libcom-err 1.47.0-2

1.42.1 Available under license

1.43 pkg-config 1.8.1-1

1.43.1 Available under license

1.44 libgomp 12.2.0-14

1.44.1 Available under license

1.45 githubcommattngorunewidth v0.0.15

1.45.1 Available under license

1.46 github.com/google/gnostic-models v0.6.8

1.46.1 Available under license

1.47 json iterator go v1.1.12

1.47.1 Available under license

1.48 githubcommodernngorelect2 v1.0.2

1.48.1 Available under license

1.49 githubcommattnngocolorable v0.1.13

1.49.1 Available under license

1.50 spf13-pflag v1.0.5

1.50.1 Available under license

1.51 intern v1.0.0

1.51.1 Available under license

1.52 githubcomgoyamlyaml v3.0.1

- 1.52.1 Available under license
- 1.53 github.com/go-inf/inf v0.9.1**
 - 1.53.1 Available under license
- 1.54 github.com/lucasb-eyer/go-colorful v1.2.0**
 - 1.54.1 Available under license
- 1.55 [monkey-http-daemon](https://github.com/monkey-http-daemon) 1.7.2**
 - 1.55.1 Available under license
- 1.56 github.com/aymanbagabas/go-osc52/v2 v2.0.1**
 - 1.56.1 Available under license
- 1.57 [c-ares](https://github.com/c-ares) 1.7.2**
 - 1.57.1 Available under license
- 1.58 [go-restful](https://github.com/go-restful) v3.11.0**
 - 1.58.1 Available under license
- 1.59 [libcap](https://github.com/libcap) 1:2.66-4**
 - 1.59.1 Available under license
- 1.60 [zlib1g](https://github.com/zlib1g) 1:1.2.13.dfsg-1**
 - 1.60.1 Available under license
- 1.61 [gmp](https://github.com/gmp) 2:6.2.1+dfsg1-1.1**
 - 1.61.1 Available under license
- 1.62 [libcap](https://github.com/libcap) 0.7.9-2.1build1**
 - 1.62.1 Available under license
- 1.63 [ca-certificates](https://github.com/ca-certificates) 20230311**
 - 1.63.1 Available under license
- 1.64 [google-go-cmp](https://github.com/google-go-cmp) v0.6.0**
 - 1.64.1 Available under license
- 1.65 github.com/charmbracelet/lipgloss v0.9.1**
 - 1.65.1 Available under license
- 1.66 github.com/muesli/cancelreader v0.2.2**
 - 1.66.1 Available under license
- 1.67 github.com/muesli/termenv v0.15.2**
 - 1.67.1 Available under license
- 1.68 [githubcomfmsnotifyfsnotify](https://github.com/comfmsnotifyfsnotify) v1.7.0**
 - 1.68.1 Available under license
- 1.69 [structured-merge-diff](https://github.com/structured-merge-diff) v4.4.1**
 - 1.69.1 Available under license
- 1.70 [logr](https://github.com/logr) v1.4.1**
 - 1.70.1 Available under license
- 1.71 github.com/muesli/ansi v0.0.0-20230316100256-276c6243b2f6**
 - 1.71.1 Available under license

1.72 klog v2.120.1

1.72.1 Available under license

1.73 githubcomgolangprotobuf v1.5.4

1.73.1 Available under license

1.74 tzdata 2024a-0+deb12u1

1.74.1 Available under license

1.75 github.com/rivo/uniseg v0.4.7

1.75.1 Available under license

1.76 github.com/samber/lo v1.39.0

1.76.1 Available under license

1.77 github.com/charmbracelet/bubbles v0.18.0

1.77.1 Available under license

1.78 sqlite 3.45.2

1.78.1 Available under license

1.79 liblzma 5.4.1-0.2

1.79.1 Available under license

1.80 libffi8 3.4.4-1

1.80.1 Available under license

1.81 k8s-io-kube-openapi v0.0.0-20240228011516-70dd3763d340

1.81.1 Available under license

1.82 nghttp2 1.7.2

1.82.1 Available under license

1.83 chunkio 1.5.2

1.83.1 Available under license

1.84 openssl 1.1.1y

1.84.1 Available under license

1.85 k8s-io-apimachinery v0.30.1

1.85.1 Available under license

1.86 k8s-io-api v0.30.1

1.86.1 Available under license

1.87 k8s-io-client-go v0.30.1

1.87.1 Available under license

1.88 x-oauth2 v0.20.0

1.88.1 Available under license

1.89 github.com/charmbracelet/x/input v0.1.0

1.89.1 Available under license

1.90 x-text v0.16.0

1.90.1 Available under license

1.91 zerolog v1.33.0

- 1.91.1 Available under license
- 1.92 x-sync v0.7.0**
 - 1.92.1 Available under license
- 1.93 libgssapikrb 1.20.1-2+deb12u2**
 - 1.93.1 Available under license
- 1.94 libkrb 1.20.1-2+deb12u2**
 - 1.94.1 Available under license
- 1.95 libkcrypto 1.20.1-2+deb12u2**
 - 1.95.1 Available under license
- 1.96 libkrb support 1.20.1-2+deb12u2**
 - 1.96.1 Available under license
- 1.97 protobuf v1.34.2**
 - 1.97.1 Available under license
- 1.98 term v0.22.0**
 - 1.98.1 Available under license
- 1.99 x-net v0.27.0**
 - 1.99.1 Available under license
- 1.100 google-golang-org-grpc v1.65.0**
 - 1.100.1 Available under license
- 1.101 pq 15.8-0+deb12u1**
 - 1.101.1 Available under license
- 1.102 libsystemd 254.16-1~bpo12+1**
 - 1.102.1 Available under license
- 1.103 fdisk 2.34.0**
 - 1.103.1 Available under license
- 1.104 github.com/xo/terminfo v0.0.0-20220910002029-abceb7e1c41e**
 - 1.104.1 Available under license
- 1.105 github.com/erikgeiser/coninput v0.0.0-20211004153227-1c3628e74d0f**
 - 1.105.1 Available under license
- 1.106 github.com/charmbracelet/x/term v0.1.1**
 - 1.106.1 Available under license
- 1.107 github.com/evertras/bubble-table v0.16.0**
 - 1.107.1 Available under license
- 1.108 google.golang.org/genproto/googleapis/rpc v0.0.0-20240709173604-40e1e62336c5**
 - 1.108.1 Available under license
- 1.109 github.com/charmbracelet/x/ansi v0.1.2**
 - 1.109.1 Available under license
- 1.110 github.com/charmbracelet/bubbletea v0.26.4**

- 1.110.1 Available under license
- 1.111 golang-org-x-exp v0.0.0-20220909182711-5c715a9e8561**
 - 1.111.1 Available under license
- 1.112 libc 2.36-9+deb12u8**
 - 1.112.1 Available under license
- 1.113 libssl3 3.0.14-1~deb12u2**
 - 1.113.1 Available under license
- 1.114 base-files 12.4+deb12u7**
 - 1.114.1 Available under license
- 1.115 golang 1.22.7**
 - 1.115.1 Available under license
- 1.116 stdlib go1.22.7**
 - 1.116.1 Notifications
 - 1.116.2 Available under license
- 1.117 libbacktrace 8602fda**
 - 1.117.1 Available under license
- 1.118 lua5.4 5.4.4-1~deb12u1**
 - 1.118.1 Available under license
- 1.119 lua 04dca791**
 - 1.119.1 Available under license
- 1.120 fluent-bit-go v0.0.0-20230731091245-a7a013e2473c**
 - 1.120.1 Available under license
- 1.121 x-sys v0.29.0**
 - 1.121.1 Available under license
- 1.122 github.com/wasilibs/wazero-helpers v0.0.0-20240620070341-3dff1577cd52**
 - 1.122.1 Available under license
- 1.123 github.com/wasilibs/go-re2 v1.9.0**
 - 1.123.1 Available under license
- 1.124 github.com/tetratelabs/wazero v1.9.0**
 - 1.124.1 Available under license
- 1.125 fluent-bit 3.1.9**
 - 1.125.1 Available under license
- 1.126 github.com/google/uuid v1.6.0**
 - 1.126.1 Available under license
- 1.127 librdkafka 2.4.0**
 - 1.127.1 Notifications
 - 1.127.2 Available under license
- 1.128 k8s.io/utils v0.0.0-20230726121419-3b25d923346b**
 - 1.128.1 Available under license

1.129 openssl 1.1.1zd

1.129.1 Available under license

1.130 golang 1.24.9

1.130.1 Available under license

1.131 coreutils 8.30-3ubuntu2

1.131.1 Available under license

1.132 shadow 4.8.1-1ubuntu5.20.04.5

1.132.1 Available under license

1.133 fsnotify 1.7.0

1.133.1 Available under license

1.134 openssl 1.1.1f-1ubuntu2.22

1.134.1 Available under license

1.135 libnettle6 3.8.1-2

1.135.1 Available under license

1.136 sysv-init 3.01-1ubuntu1

1.136.1 Available under license

1.137 kerberos 1.19.2-2ubuntu0.7

1.137.1 Available under license

1.138 audit 2.8.5-2ubuntu6

1.138.1 Available under license

1.139 bash 5.1-6ubuntu1.1

1.139.1 Available under license

1.140 usrmerge 25ubuntu2

1.140.1 Available under license

1.141 init-system-helpers 1.57

1.141.1 Available under license

1.142 libidn 2.2.0-2

1.142.1 Available under license

1.143 bytebufferpool 1.0.0

1.143.1 Available under license

1.144 grep 3.4-1

1.144.1 Available under license

1.145 goautoneg 0.0.0-20191010083416-a7dc8b61c822

1.145.1 Available under license

1.146 intern 1.0.0

1.146.1 Available under license

1.147 ncurses 6.3-2ubuntu0.1

1.147.1 Available under license

1.148 tar 1.30+dfsg-7ubuntu0.20.04.4

1.148.1 Available under license
1.149 cpp 12.2.0-14
1.149.1 Available under license
1.150 gmp 2:6.2.1+dfsg-3ubuntu1
1.150.1 Available under license
1.151 golang-snappy 0.0.4
1.151.1 Available under license
1.152 libcap-ng 0.7.9-2.2build3
1.152.1 Available under license
1.153 dpkg 1.19.7ubuntu3.2
1.153.1 Available under license
1.154 libcap 1:2.44-1ubuntu0.22.04.2
1.154.1 Available under license
1.155 spf13-pflag 1.0.5
1.155.1 Available under license
1.156 x-text 0.16.0
1.156.1 Available under license
1.157 sed 4.8-1ubuntu2
1.157.1 Available under license
1.158 prometheus 0.38.0
1.158.1 Available under license
1.159 perks 1.0.1
1.159.1 Available under license
1.160 easyjson 0.7.7
1.160.1 Available under license
1.161 bzip2 1.0.8-2
1.161.1 Available under license
1.162 glib 2.64.6-1~ubuntu20.04.7
1.162.1 Available under license
1.163 kerberos 1.20.1-2+deb12u2
1.163.1 Available under license
1.164 kubernetes-apimachinery 0.30.3
1.164.1 Available under license
1.165 ca-certificates 20240203~22.04.1
1.165.1 Available under license
1.166 libpkit 0.23.20-1ubuntu0.1
1.166.1 Available under license
1.167 acl 2.2.53-6
1.167.1 Available under license

1.168 libffi 3.4.2-4

1.168.1 Available under license

1.169 ca-certificates 20230311ubuntu0.20.04.1

1.169.1 Available under license

1.170 d-conf 0.36.0-1

1.170.1 Available under license

1.171 dash 0.5.11+git20210903+057cd650a4ed-3build1

1.171.1 Available under license

1.172 grep 3.7-1build1

1.172.1 Available under license

1.173 zstd 1.4.8+dfsg-3build1

1.173.1 Available under license

1.174 gnutls 3.7.3-4ubuntu1.7

1.174.1 Available under license

1.175 libidn 2.3.2-2build1

1.175.1 Available under license

1.176 xz 5.4.1-0.2

1.176.1 Available under license

1.177 libunistring 0.9.10-2

1.177.1 Available under license

1.178 libtasn 4.19.0-2

1.178.1 Available under license

1.179 open-ldap 2.5.13+dfsg-5

1.179.1 Available under license

1.180 websocket 1.5.10

1.180.1 Available under license

1.181 iconv 2.31

1.181.1 Available under license

1.182 libpkit 0.24.1-2

1.182.1 Available under license

1.183 adduser 3.118ubuntu5

1.183.1 Available under license

1.184 pflag 1.0.5

1.184.1 Available under license

1.185 gofuzz 1.2.0

1.185.1 Available under license

1.186 hostname 3.23

1.186.1 Available under license

1.187 procps 3.3.16-1ubuntu2.4

1.187.1 Available under license

1.188 jsonreference 0.21.0

1.188.1 Available under license

1.189 libsepol 3.0-1ubuntu0.1

1.189.1 Available under license

1.190 zstd 1.4.4+dfsg-3ubuntu0.1

1.190.1 Available under license

1.191 pam 1.4.0-11ubuntu2.6

1.191.1 Available under license

1.192 tzdata 2024a-0ubuntu0.20.04

1.192.1 Available under license

1.193 zstd 1.5.4+dfsg2-4

1.193.1 Available under license

1.194 postgresql 15.8-0+deb12u1

1.194.1 Available under license

1.195 openssl 3.0.2-0ubuntu1.20

1.195.1 Available under license

1.196 adduser 3.118ubuntu2

1.196.1 Available under license

1.197 zlib 1.2.13.dfsg-1

1.197.1 Available under license

1.198 libgcrypt 1.9.4-3ubuntu3

1.198.1 Available under license

1.199 libnsl 1.3.0-2build2

1.199.1 Available under license

1.200 findutils 4.7.0-1ubuntu1

1.200.1 Available under license

1.201 util-linux 2.34-0.1ubuntu9.6

1.201.1 Available under license

1.202 lz4 1.9.4-1

1.202.1 Available under license

1.203 lz4 1.9.2-2ubuntu0.20.04.1

1.203.1 Available under license

1.204 prometheus-client-model 0.5.0

1.204.1 Available under license

1.205 fasthttp 1.55.0

1.205.1 Available under license

1.206 shared-mime-info 1.15-1

1.206.1 Available under license

1.207 apt 2.4.14

1.207.1 Available under license

1.208 inf 0.9.1

1.208.1 Available under license

1.209 gnupg 2.2.27-3ubuntu2.4

1.209.1 Available under license

1.210 x-net 0.27.0

1.210.1 Available under license

1.211 go-isatty 0.0.19

1.211.1 Available under license

1.212 libidn 2.3.3-1+b1

1.212.1 Available under license

1.213 libzstd 1.4.8+dfsg-3build1

1.213.1 Available under license

1.214 lsb 11.1.0ubuntu2

1.214.1 Available under license

1.215 base-files 12ubuntu4.7

1.215.1 Available under license

1.216 wazero 1.9.0

1.216.1 Available under license

1.217 util-linux 1:2.37.2-4ubuntu3.4

1.217.1 Available under license

1.218 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

1.218.1 Available under license

1.219 grpc-go 1.65.0

1.219.1 Available under license

1.220 cobra 1.4.0

1.220.1 Available under license

1.221 debianutils 4.9.1

1.221.1 Available under license

1.222 kubernetes-apimachinery 0.30.1

1.222.1 Available under license

1.223 x-net 0.27.0

1.223.1 Available under license

1.224 libunistring 1.0-1

1.224.1 Available under license

1.225 systemd 249.11-0ubuntu3.17

1.225.1 Available under license

1.226 go-openapi-jsonpointer 0.21.0

1.226.1 Available under license

1.227 x-crypto 1.22.12

1.227.1 Available under license

1.228 gnutls 3.7.9-2+deb12u3

1.228.1 Available under license

1.229 genproto-googleapis-rpc 0.0.0-20240709173604-40e1e62336c5

1.229.1 Available under license

1.230 logr 1.4.2

1.230.1 Available under license

1.231 libgcrypt 1.10.1-3

1.231.1 Available under license

1.232 cdebconf 0.251ubuntu1

1.232.1 Available under license

1.233 libseccomp 2.5.1-1ubuntu1~20.04.2

1.233.1 Available under license

1.234 attr 1:2.5.1-1build1

1.234.1 Available under license

1.235 keyutils 1.6.3-2

1.235.1 Available under license

1.236 cdebconf 0.261ubuntu1

1.236.1 Available under license

1.237 spew 1.1.2-0.20180830191138-d8f796af33cc

1.237.1 Available under license

1.238 libffi 3.4.4-1

1.238.1 Available under license

1.239 debconf 1.5.73

1.239.1 Available under license

1.240 openssl 3.0.14-1~deb12u2

1.240.1 Available under license

1.241 libsemanage-common 3.0-1build2

1.241.1 Available under license

1.242 wasilibs-go-re2 1.9.0

1.242.1 Available under license

1.243 berkeley-db 5.3.28+dfsg1-0.8ubuntu3

1.243.1 Available under license

1.244 x-oauth2 0.21.0

1.244.1 Available under license

1.245 sensible-utils 0.0.12+nmu1

1.245.1 Available under license

1.246 libnettle6 3.5.1+really3.5.1-2ubuntu0.2

1.246.1 Available under license

1.247 zlib 1:1.2.11.dfsg-2ubuntu9.2

1.247.1 Available under license

1.248 kubernetes-client 0.30.3

1.248.1 Available under license

1.249 file 5.38-4

1.249.1 Available under license

1.250 debconf 1.5.79ubuntu1

1.250.1 Available under license

1.251 libgpg-error 1.46-1

1.251.1 Available under license

1.252 libxcrypt 1:4.4.27-1

1.252.1 Available under license

1.253 libgpg-error 1.43-3

1.253.1 Available under license

1.254 protobuf-go 1.34.2

1.254.1 Available under license

1.255 libtasn 4.16.0-2

1.255.1 Available under license

1.256 mawk 1.3.4.20200120-2

1.256.1 Available under license

1.257 base-passwd 3.5.47

1.257.1 Available under license

1.258 perl 5.30.0-9ubuntu0.5

1.258.1 Available under license

1.259 kubernetes-klog 2.130.1

1.259.1 Available under license

1.260 gnutls 3.6.13-2ubuntu1.11

1.260.1 Available under license

1.261 prometheus-client 1.19.1

1.261.1 Available under license

1.262 golang-lru 0.5.4

1.262.1 Available under license

1.263 google-uuid 1.6.0

1.263.1 Available under license

1.264 structured-merge-diff 4.4.1

1.264.1 Available under license

1.265 sysv-init 2.96-2.1ubuntu1

1.265.1 Available under license

1.266 lz4 1.9.3-2build2

1.266.1 Available under license

1.267 init-system-helpers 1.62

1.267.1 Available under license

1.268 libpkit 0.24.0-6build1

1.268.1 Available under license

1.269 swag 0.23.0

1.269.1 Available under license

1.270 sudo 1.8.31-1ubuntu1.5

1.270.1 Available under license

1.271 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

1.271.1 Available under license

1.272 mawk 1.3.4.20200120-3

1.272.1 Available under license

1.273 selinux 3.0-1build2

1.273.1 Available under license

1.274 libtasn 4.18.0-4ubuntu0.1

1.274.1 Available under license

1.275 kubernetes-api 0.30.3

1.275.1 Available under license

1.276 perl 5.34.0-3ubuntu1.5

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@group

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@c ispell-local-pdict: "ispell-dict"

@c End:

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Version 2, June 1991

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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1.6 goautoneg v0.0.0-20191010083416-a7dc8b61c822

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1.9 githubcomimdarimergo v0.3.6

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```
import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
```

1.10 msgpack 3.3.0

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1.11 tdb 1.45.5

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1.14 github.com/muesli/reflow v0.3.0

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1.17 tdb 1.46.5

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

```
all:: image
```

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

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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- + trivial database library - standalone version
- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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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:

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Version 3, 29 June 2007

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1.25 github.com/atotto/clipboard v0.1.4

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1.27 netbase 6.4

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1.29 githubcomgoopenapijsonpointer v0.19.6

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1.32 openssl 1.1.1t

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1.35 libldap-2.5-0 2.5.13+dfsg-5

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1.36 glibc 2.27-3ubuntu1.6

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Julian Seward, jseward@bzip.org
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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
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must be optional: if the application does not supply it, the

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```
<!-- Creator    : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
<!-- site wide top running header menu -->
```



```

<ul id="overview">
  <li class="home">
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">

    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
<div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>

```

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<p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions. Copies of the licences can be found on the
GNU
web site.</p>
</div>
</div>
</body>
</html>
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1.38 libstd-c 12.2.0-14

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.39 libkeyutils 1.6.3-2

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Upstream-Contact: David Howells <dhowells@redhat.com>

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* Rob Earhart

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* Rob Siemborski
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Upstream-Name: Cyrus SASL

Source: <ftp://ftp.cyrusimap.org/cyrus-sasl/>

Files-Excluded: dlcompat-20010505

doc/html

docsrc/exts/themes

mac

man

*.pyc

Comment: doc/html, man and *.pyc contain generated files.

dlcompat and mac are not needed and contain many licenses more.

docsrc/extends/themes contains generated files and has a Debian package replacement.

Files: *

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Files: common/crypto-compat.c

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Files: docsrc/extends/sphinxlocal/*

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2015 by Nic Bernstein <nic@onlight.com>

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2006-2011, 2014, Roberto C. Sanchez <roberto@connexer.com>

2015-2016, Ondrej Sur <ondrej@debian.org>

2021-2022, Bastian Germann

Comment: For upstream patches, the licenses of the changed files apply.

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Files: debian/po/*.po

debian/po/*.pot

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Based on cyrus-imapd-2.2 packages by Henrique de Moraes Holshuch.

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lib/getsubopt.c

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lib/md5.c

saslauthd/md5.c

saslauthd/saslauthd_md5.h

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saslauthd/auth_krb*

saslauthd/auth_rimap.h

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1.42 libcom-err 1.47.0-2

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Upstream-Name: e2fsprogs

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

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

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

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1.46 github.com/google/gnostic-models v0.6.8

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1.47 json iterator go v1.1.12

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1.51 intern v1.0.0

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1.53 github.com/go-inf/inf v0.9.1

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1.54 github.com/lucasb-eyer/go-colorful

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1.55 [monkey-http-daemon](https://github.com/monkeysphere/http-daemon) 1.7.2

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1.56 github.com/aymanbagabas/go-osc52/v2 v2.0.1

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*/

Found in

path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_getopt.c

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```
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*/
```

Found in path(s):

```
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_getopt.h
```

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c-ares

=====

This is c-ares, an asynchronous resolver library. It is intended for applications which need to perform DNS queries without blocking, or need to perform multiple DNS queries in parallel. The primary examples of such applications are servers which communicate with multiple clients and programs with graphical user interfaces.

The full source code is available in the 'c-ares' release archives, and in a git repository: <http://github.com/bagder/c-ares>

If you find bugs, correct flaws, have questions or have comments in general in regard to c-ares (or by all means the original ares too), get in touch with us on the c-ares mailing list: <http://cool.haxx.se/mailman/listinfo/c-ares>

c-ares is of course distributed under the same MIT-style license as the original ares.

You'll find all c-ares details and news here:

<http://c-ares.haxx.se/>

NOTES FOR C-ARES HACKERS

The following notes apply to c-ares version 1.7.0 and later.

- * The distributed ares_build.h file is only intended to be used on systems which can not run the also distributed configure script.
- * The distributed ares_build.h file is generated as a copy of ares_build.h.dist when the c-ares source code distribution archive file is originally created.
- * If you check out from git on a non-configure platform, you must run the appropriate buildconf* script to set up ares_build.h and other local files before being able of compiling the library.
- * On systems capable of running the configure script, the configure process will overwrite the distributed ares_build.h file with one that is suitable and specific to the library being configured and built, this new file is generated from the ares_build.h.in template file.
- * If you intend to distribute an already compiled c-ares library you MUST also distribute along with it the generated ares_build.h which has been used to compile it. Otherwise the library will be of no use for the users of the library that you have built. It is your responsibility to provide this file. No one at the c-ares project can know how you have built the library.
- * File ares_build.h includes platform and configuration dependent info, and must not be modified by anyone. Configure script generates it for you.
- * We cannot assume anything else but very basic compiler features being present. While c-ares requires an ANSI C compiler to build, some of the earlier ANSI compilers clearly can't deal with some preprocessor operators.
- * Newlines must remain unix-style for older compilers' sake.

* Comments must be written in the old-style /* unnested C-fashion */

Found in path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/README

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```
#####
# $Id$
#
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#
#####
```

File version for 'aclocal' use. Keep it a single number.

serial 3

dnl CARES_CHECK_PATH_SEPARATOR

dnl

dnl Check and compute the path separator for us. This
dnl path separator is the symbol used to differentiate
dnl or separate paths inside the PATH environment var.

```
AC_DEFUN([CARES_CHECK_PATH_SEPARATOR], [
if test -z "$cares_cv_PATH_SEPARATOR"; then
  if test -z "$PATH"; then
    AC_MSG_ERROR([PATH not set. Cannot continue without PATH being set.])
  fi
  dnl Directory count in PATH when using a colon separator.
  tst_dirs_col=0
  tst_save_IFS=$IFS; IFS=:
  for tst_dir in $PATH; do
    IFS=$tst_save_IFS
    test -d "$tst_dir" && tst_dirs_col=`expr $tst_dirs_col + 1`
  done
  IFS=$tst_save_IFS
  dnl Directory count in PATH when using a semicolon separator.
```

```

tst_dirs_sem=0
tst_save_IFS=$IFS; IFS=';'
for tst_dir in $PATH; do
    IFS=$tst_save_IFS
    test -d "$tst_dir" && tst_dirs_sem=`expr $tst_dirs_sem + 1`
done
IFS=$tst_save_IFS
if test $tst_dirs_sem -eq $tst_dirs_col;
then
    dnl When both counting methods give the same result we do not want to
    dnl chose one over the other, and consider auto-detection not possible.
    if test -z "$PATH_SEPARATOR"; then
        dnl Stop dead until user provides PATH_SEPARATOR definition.
        AC_MSG_ERROR([PATH_SEPARATOR not set. Cannot continue without it.])
    fi
else
    dnl Separator with the greater directory count is the auto-detected one.
    if test $tst_dirs_sem -gt $tst_dirs_col; then
        tst_auto_separator=';'
    else
        tst_auto_separator=':'
    fi
    if test -z "$PATH_SEPARATOR"; then
        dnl Simply use the auto-detected one when not already set.
        PATH_SEPARATOR="$tst_auto_separator"
    fi
fi
cares_cv_PATH_SEPARATOR="$PATH_SEPARATOR"
fi
AC_SUBST([PATH_SEPARATOR])
AC_SUBST([PATH])
])

```

dnl CARES_CHECK_PATH_SEPARATOR_REQUIRED

dnl -----

dnl Use this to ensure that the path separator check

dnl

macro is only expanded and included once.

```

AC_DEFUN([CARES_CHECK_PATH_SEPARATOR_REQUIRED], [
    AC_REQUIRE([CARES_CHECK_PATH_SEPARATOR])dnl
])

```

Found in path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/m4/cares-system.m4

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*/

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* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_library_init.c

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_library_init.h

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Found in path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/cares.rc

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\$Id\$

#

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#

File version for 'aclocal' use. Keep it a single number.

serial 65

dnl CARES_CHECK_COMPILER

dnl

dnl Verify if the C compiler being used is known.

AC_DEFUN([CARES_CHECK_COMPILER], [
AC_BEFORE([\$0],[CARES_CHECK_NO_UNDEFINED]))dnl

#

compiler_id="unknown"

compiler_num="0"

#

flags_dbg_all="unknown"

flags_dbg_yes="unknown"

flags_dbg_off="unknown"

flags_opt_all="unknown"

```

flags_opt_yes="unknown"
flags_opt_off="unknown"
#
CARES_CHECK_COMPILER_DEC_C
CARES_CHECK_COMPILER_HPUX_C
CARES_CHECK_COMPILER_IBM_C
CARES_CHECK_COMPILER_INTEL_C
CARES_CHECK_COMPILER_CLANG
CARES_CHECK_COMPILER_GNU_C
CARES_CHECK_COMPILER_LCC
CARES_CHECK_COMPILER_SGI_MIPSPRO_C
CARES_CHECK_COMPILER_SGI_MIPS_C
CARES_CHECK_COMPILER_SUNPRO_C
CARES_CHECK_COMPILER_TINY_C
CARES_CHECK_COMPILER_WATCOM_C
#
if test "$compiler_id" = "unknown"; then
cat <<_EOF 1>&2
***
*** Warning: This configure script does not have information about the
*** compiler you are using, relative to the flags required to enable or
*** disable generation
of debug info, optimization options or warnings.
***
*** Whatever settings are present in CFLAGS will be used for this run.
***
*** If you wish to help the c-ares project to better support your compiler
*** you can report this and the required info on the c-ares development
*** mailing list: http://cool.haxx.se/mailman/listinfo/c-ares/
***
_EOF
fi
])

```

```

dnl CARES_CHECK_COMPILER_CLANG
dnl -----
dnl Verify if compiler being used is clang.

```

```

AC_DEFUN([CARES_CHECK_COMPILER_CLANG], [
AC_BEFORE([$0],[CARES_CHECK_COMPILER_GNU_C])dnl
AC_MSG_CHECKING([if compiler is clang])
CURL_CHECK_DEF([__clang__], [], [silent])
if test "$curl_cv_have_def__clang__" = "yes"; then
AC_MSG_RESULT([yes])
compiler_id="CLANG"
clangver=`$CC -dumpversion`
clangvhi=`echo $clangver | cut -d . -f1`

```

```

clangvlo=`echo $clangver | cut -d . -f2`
compiler_num=`(expr $clangvhi "*" 100 + $clangvlo) 2>/dev/null`
flags_dbg_all="-g -g0 -g1 -g2
-g3"
flags_dbg_all="$flags_dbg_all -ggdb"
flags_dbg_all="$flags_dbg_all -gstabs"
flags_dbg_all="$flags_dbg_all -gstabs+"
flags_dbg_all="$flags_dbg_all -gcoff"
flags_dbg_all="$flags_dbg_all -gxcoff"
flags_dbg_all="$flags_dbg_all -gdwarf-2"
flags_dbg_all="$flags_dbg_all -gvms"
flags_dbg_yes="-g"
flags_dbg_off="-g0"
flags_opt_all="-O -O0 -O1 -O2 -Os -O3 -O4"
flags_opt_yes="-Os"
flags_opt_off="-O0"
else
  AC_MSG_RESULT([no])
fi
])

```

dnl CARES_CHECK_COMPILER_DEC_C

dnl -----

dnl Verify if compiler being used is DEC C.

```

AC_DEFUN([CARES_CHECK_COMPILER_DEC_C], [
  AC_MSG_CHECKING([if compiler is DEC/Compaq/HP C])
  CURL_CHECK_DEF([__DECC], [], [silent])
  CURL_CHECK_DEF([__DECC_VER], [], [silent])
  if test "$curl_cv_have_def__DECC" = "yes" &&
    test "$curl_cv_have_def__DECC_VER" = "yes"; then
    AC_MSG_RESULT([yes])
    compiler_id="DEC_C"
    flags_dbg_all="-g -g0 -g1 -g2 -g3"
    flags_dbg_yes="-g2"
    flags_dbg_off="-g0"
    flags_opt_all="-O -O0 -O1 -O2 -O3 -O4"
    flags_opt_yes="-O1"
    flags_opt_off="-O0"
  else
    AC_MSG_RESULT([no])
  fi
])

```

dnl CARES_CHECK_COMPILER_GNU_C

dnl -----

dnl Verify if compiler being used is GNU C.

```
AC_DEFUN([CARES_CHECK_COMPILER_GNU_C], [
  AC_REQUIRE([CARES_CHECK_COMPILER_INTEL_C])dnl
  AC_REQUIRE([CARES_CHECK_COMPILER_CLANG])dnl
  AC_MSG_CHECKING([if compiler is GNU C])
  CURL_CHECK_DEF([__GNUC__], [], [silent])
  if test "$curl_cv_have_def__GNUC__" = "yes" &&
    test "$compiler_id" = "unknown"; then
    AC_MSG_RESULT([yes])
    compiler_id="GNU_C"
    gccver=`$CC -dumpversion`
    gccvhi=`echo $gccver | cut -d . -f1`
    gccvlo=`echo $gccver | cut -d . -f2`
    compiler_num=`(expr $gccvhi "*" 100 + $gccvlo) 2>/dev/null`
    flags_dbg_all="-g -g0 -g1 -g2 -g3"
    flags_dbg_all="$flags_dbg_all -ggdb"
    flags_dbg_all="$flags_dbg_all -gstabs"
    flags_dbg_all="$flags_dbg_all -gstabs+"
    flags_dbg_all="$flags_dbg_all -gcoff"
    flags_dbg_all="$flags_dbg_all -gxcoff"
    flags_dbg_all="$flags_dbg_all -gdwarf-2"
    flags_dbg_all="$flags_dbg_all -gvms"
    flags_dbg_yes="-g"
    flags_dbg_off="-g0"
    flags_opt_all="-O -O0 -O1 -O2 -O3 -Os"
    flags_opt_yes="-O2"
    flags_opt_off="-O0"
  else
    AC_MSG_RESULT([no])
  fi
])
```

dnl CARES_CHECK_COMPILER_HPUX_C

dnl -----

dnl Verify if compiler being used is HP-UX C.

```
AC_DEFUN([CARES_CHECK_COMPILER_HPUX_C], [
  AC_MSG_CHECKING([if compiler is HP-UX C])
  CURL_CHECK_DEF([__HP_cc], [], [silent])
  if test "$curl_cv_have_def__HP_cc" = "yes"; then
    AC_MSG_RESULT([yes])
    compiler_id="HP_UX_C"
    flags_dbg_all="-g -s"
    flags_dbg_yes="-g"
    flags_dbg_off="-s"
    flags_opt_all="-O +O0 +O1 +O2 +O3 +O4"
```

```

    flags_opt_yes="+O2"
    flags_opt_off="+O0"
else
    AC_MSG_RESULT([no])
fi
])

```

```

dnl CARES_CHECK_COMPILER_IBM_C
dnl -----
dnl
dnl Verify if compiler being used is IBM C.

```

```

AC_DEFUN([CARES_CHECK_COMPILER_IBM_C], [
    AC_MSG_CHECKING([if compiler is IBM C])
    CURL_CHECK_DEF([__IBMC__], [], [silent])
    if test "$curl_cv_have_def__IBMC__" = "yes"; then
        AC_MSG_RESULT([yes])
        compiler_id="IBM_C"
        flags_dbg_all="-g -g0 -g1 -g2 -g3"
        flags_dbg_yes="-g"
        flags_dbg_off=""
        flags_opt_all="-O -O0 -O1 -O2 -O3 -O4 -O5"
        flags_opt_all="$flags_opt_all -qnooptimize"
        flags_opt_all="$flags_opt_all -qoptimize=0"
        flags_opt_all="$flags_opt_all -qoptimize=1"
        flags_opt_all="$flags_opt_all -qoptimize=2"
        flags_opt_all="$flags_opt_all -qoptimize=3"
        flags_opt_all="$flags_opt_all -qoptimize=4"
        flags_opt_all="$flags_opt_all -qoptimize=5"
        flags_opt_yes="-O2"
        flags_opt_off="-qnooptimize"
    else
        AC_MSG_RESULT([no])
    fi
])

```

```

dnl CARES_CHECK_COMPILER_INTEL_C
dnl -----
dnl Verify if compiler being used is Intel C.

```

```

AC_DEFUN([CARES_CHECK_COMPILER_INTEL_C],
[
    AC_BEFORE([$0],[CARES_CHECK_COMPILER_GNU_C])dnl
    AC_MSG_CHECKING([if compiler is Intel C])
    CURL_CHECK_DEF([__INTEL_COMPILER], [], [silent])
    if test "$curl_cv_have_def__INTEL_COMPILER" = "yes"; then

```

```

AC_MSG_RESULT([yes])
compiler_num="$curl_cv_def__INTEL_COMPILER"
CURL_CHECK_DEF([__unix__], [], [silent])
if test "$curl_cv_have_def__unix__" = "yes"; then
  compiler_id="INTEL_UNIX_C"
  flags_dbg_all="-g -g0"
  flags_dbg_yes="-g"
  flags_dbg_off="-g0"
  flags_opt_all="-O -O0 -O1 -O2 -O3 -Os"
  flags_opt_yes="-O2"
  flags_opt_off="-O0"
else
  compiler_id="INTEL_WINDOWS_C"
  flags_dbg_all="/ZI /Zi /zI /zi /ZD /Zd /zD /zd /Z7 /z7 /Oy /Oy-"
  flags_dbg_all="$flags_dbg_all /debug"
  flags_dbg_all="$flags_dbg_all /debug:none"
  flags_dbg_all="$flags_dbg_all /debug:minimal"
  flags_dbg_all="$flags_dbg_all /debug:partial"
  flags_dbg_all="$flags_dbg_all /debug:full"
  flags_dbg_all="$flags_dbg_all
/debug:semantic_stepping"
  flags_dbg_all="$flags_dbg_all /debug:extended"
  flags_dbg_yes="/Zi /Oy-"
  flags_dbg_off="/debug:none /Oy-"
  flags_opt_all="/O /O0 /O1 /O2 /O3 /Od /Og /Og- /Oi /Oi-"
  flags_opt_yes="/O2"
  flags_opt_off="/Od"
fi
else
  AC_MSG_RESULT([no])
fi
])

```

```

dnl CARES_CHECK_COMPILER_LCC
dnl -----
dnl Verify if compiler being used is LCC.

```

```

AC_DEFUN([CARES_CHECK_COMPILER_LCC], [
  AC_MSG_CHECKING([if compiler is LCC])
  CURL_CHECK_DEF([__LCC__], [], [silent])
  if test "$curl_cv_have_def__LCC__" = "yes"; then
    AC_MSG_RESULT([yes])
    compiler_id="LCC"
    flags_dbg_all="-g"
    flags_dbg_yes="-g"
    flags_dbg_off=""
    flags_opt_all=""
  fi
])

```

```

    flags_opt_yes=""
    flags_opt_off=""
else
    AC_MSG_RESULT([no])
fi
])

dnl CARES_CHECK_COMPILER_SGI_MIPS_C
dnl -----
dnl Verify if compiler being used is SGI MIPS C.

AC_DEFUN([CARES_CHECK_COMPILER_SGI_MIPS_C],
[
    AC_REQUIRE([CARES_CHECK_COMPILER_SGI_MIPSPRO_C])dnl
    AC_MSG_CHECKING([if compiler is SGI MIPS C])
    CURL_CHECK_DEF([__GNUC__], [], [silent])
    CURL_CHECK_DEF([__sgi], [], [silent])
    if test "$curl_cv_have_def__GNUC__" = "no" &&
        test "$curl_cv_have_def__sgi" = "yes" &&
        test "$compiler_id" = "unknown"; then
        AC_MSG_RESULT([yes])
        compiler_id="SGI_MIPS_C"
        flags_dbg_all="-g -g0 -g1 -g2 -g3"
        flags_dbg_yes="-g"
        flags_dbg_off="-g0"
        flags_opt_all="-O -O0 -O1 -O2 -O3 -Ofast"
        flags_opt_yes="-O2"
        flags_opt_off="-O0"
    else
        AC_MSG_RESULT([no])
    fi
])

dnl CARES_CHECK_COMPILER_SGI_MIPSPRO_C
dnl -----
dnl Verify if compiler being used is SGI MIPSpro C.

AC_DEFUN([CARES_CHECK_COMPILER_SGI_MIPSPRO_C], [
    AC_BEFORE([$0],[CARES_CHECK_COMPILER_SGI_MIPS_C])dnl
    AC_MSG_CHECKING([if compiler is SGI MIPSpro C])
    CURL_CHECK_DEF([__GNUC__], [], [silent])
    CURL_CHECK_DEF([_COMPILER_VERSION], [],
[silent])
    CURL_CHECK_DEF([_SGI_COMPILER_VERSION], [], [silent])
    if test "$curl_cv_have_def__GNUC__" = "no" &&
        (test "$curl_cv_have_def__SGI_COMPILER_VERSION" = "yes" ||

```

```

    test "$curl_cv_have_def__COMPILER_VERSION" = "yes"); then
    AC_MSG_RESULT([yes])
    compiler_id="SGI_MIPSPRO_C"
    flags_dbg_all="-g -g0 -g1 -g2 -g3"
    flags_dbg_yes="-g"
    flags_dbg_off="-g0"
    flags_opt_all="-O -O0 -O1 -O2 -O3 -Ofast"
    flags_opt_yes="-O2"
    flags_opt_off="-O0"
else
    AC_MSG_RESULT([no])
fi
))

```

```

dnl CARES_CHECK_COMPILER_SUNPRO_C
dnl -----
dnl Verify if compiler being used is SunPro C.

```

```

AC_DEFUN([CARES_CHECK_COMPILER_SUNPRO_C], [
    AC_MSG_CHECKING([if compiler is SunPro C])
    CURL_CHECK_DEF([__SUNPRO_C], [], [silent])
    if test "$curl_cv_have_def__SUNPRO_C" = "yes"; then
        AC_MSG_RESULT([yes])
        compiler_id="SUNPRO_C"
        flags_dbg_all="-g -s"
        flags_dbg_yes="-g"
        flags_dbg_off="-s"
        flags_opt_all="-O -xO -xO1
-xO2 -xO3 -xO4 -xO5"
        flags_opt_yes="-xO2"
        flags_opt_off=""
    else
        AC_MSG_RESULT([no])
    fi
])

```

```

dnl CARES_CHECK_COMPILER_TINY_C
dnl -----
dnl Verify if compiler being used is Tiny C.

```

```

AC_DEFUN([CARES_CHECK_COMPILER_TINY_C], [
    AC_MSG_CHECKING([if compiler is Tiny C])
    CURL_CHECK_DEF([__TINYC__], [], [silent])
    if test "$curl_cv_have_def__TINYC__" = "yes"; then
        AC_MSG_RESULT([yes])
        compiler_id="TINY_C"
    fi
])

```



```

flags_dbg_all="-g -b"
flags_dbg_yes="-g"
flags_dbg_off=""
flags_opt_all=""
flags_opt_yes=""
flags_opt_off=""
else
    AC_MSG_RESULT([no])
fi
])

```

```

dnl CARES_CHECK_COMPILER_WATCOM_C
dnl -----
dnl Verify if compiler being used is Watcom C.

```

```

AC_DEFUN([CARES_CHECK_COMPILER_WATCOM_C], [
    AC_MSG_CHECKING([if compiler is Watcom C])
    CURL_CHECK_DEF([__WATCOMC__], [], [silent])
    if test "$curl_cv_have_def__WATCOMC__" = "yes"; then
        AC_MSG_RESULT([yes])
        CURL_CHECK_DEF([__UNIX__], [], [silent])
        if test "$curl_cv_have_def__UNIX__" = "yes"; then
            compiler_id="WATCOM_UNIX_C"
            flags_dbg_all="-g1 -g1+ -g2 -g3"
            flags_dbg_yes="-g2"
            flags_dbg_off=""
            flags_opt_all="-O0 -O1 -O2 -O3"
            flags_opt_yes="-O2"
            flags_opt_off="-O0"
        else
            compiler_id="WATCOM_WINDOWS_C"
            flags_dbg_all=""
            flags_dbg_yes=""
            flags_dbg_off=""
            flags_opt_all=""
            flags_opt_yes=""
            flags_opt_off=""
        fi
    else
        AC_MSG_RESULT([no])
    fi
])

```

```

dnl CARES_CONVERT_INCLUDE_TO_ISYSTEM
dnl -----
dnl Changes standard include paths present in CFLAGS

```

dn1 and CPPFLAGS into isystem include paths. This is
dn1 done to prevent GNUC from generating warnings on
dn1 headers from these locations, although on ancient
dn1 GNUC versions these warnings are not silenced.

```
AC_DEFUN([CARES_CONVERT_INCLUDE_TO_ISYSTEM], [  
  AC_REQUIRE([CARES_SHFUNC_SQUEEZE])dn1  
  tmp_has_include="no"  
  tmp_chg_FLAGS="$CFLAGS"  
  for word1 in $tmp_chg_FLAGS; do  
    case "$word1" in  
      -I*)  
        tmp_has_include="yes"  
        ;;  
    esac  
  done  
  if test "$tmp_has_include" = "yes"; then  
    tmp_chg_FLAGS=`echo "$tmp_chg_FLAGS" | "$SED" 's/^-I/ -isystem /g`  
    tmp_chg_FLAGS=`echo "$tmp_chg_FLAGS" | "$SED" 's/ -I/ -isystem /g`  
    CFLAGS="$tmp_chg_FLAGS"  
    squeeze CFLAGS  
  fi  
  tmp_has_include="no"  
  tmp_chg_FLAGS="$CPPFLAGS"  
  for word1 in $tmp_chg_FLAGS; do  
    case "$word1" in  
      -I*)  
        tmp_has_include="yes"  
        ;;  
    esac  
  done  
  if test "$tmp_has_include" = "yes"; then  
    tmp_chg_FLAGS=`echo "$tmp_chg_FLAGS" | "$SED" 's/^-I/ -isystem /g`  
    tmp_chg_FLAGS=`echo "$tmp_chg_FLAGS" | "$SED" 's/ -I/ -isystem /g`  
    CPPFLAGS="$tmp_chg_FLAGS"  
    squeeze CPPFLAGS  
  fi  
])
```

dn1 CARES_COMPILER_WORKS_IFELSE ([ACTION-IF-WORKS], [ACTION-IF-NOT-WORKS])
dn1 -----
dn1 Verify if the C compiler seems to work with the
dn1
dn1 settings that are 'active' at the time the test
dn1 is performed.

```
AC_DEFUN([CARES_COMPILER_WORKS_IFELSE], [  

```

```

dnl compilation capability verification
tmp_compiler_works="unknown"
AC_COMPILE_IFELSE([
  AC_LANG_PROGRAM([[
    ]],[[
      int i = 1;
      return i;
    ]])
],[
  tmp_compiler_works="yes"
],[
  tmp_compiler_works="no"
  echo " " >&6
  sed 's/^/cc-fail: /' conftest.err >&6
  echo " " >&6
])
dnl linking capability verification
if test "$tmp_compiler_works" = "yes"; then
  AC_LINK_IFELSE([
    AC_LANG_PROGRAM([[
      ]],[[
        int i = 1;
        return i;
      ]])
  ],[
    tmp_compiler_works="yes"
  ],[
    tmp_compiler_works="no"
    echo " " >&6
    sed 's/^/link-fail: /' conftest.err >&6
    echo " " >&6
  ])
fi
dnl only do runtime verification when not cross-compiling
if test "x$cross_compiling" != "xyes" &&
  test "$tmp_compiler_works" = "yes"; then
  AC_RUN_IFELSE([
    AC_LANG_PROGRAM([[
#      ifdef
__STDC__
#        include <stdlib.h>
#      endif
    ]],[[
      int i = 0;
      exit(i);
    ]])
  ],[
    tmp_compiler_works="yes"

```

```

],[
    tmp_compiler_works="no"
    echo " " >&6
    echo "run-fail: test program exited with status $ac_status" >&6
    echo " " >&6
])
fi
dnl branch upon test result
if test "$tmp_compiler_works" = "yes"; then
ifelse($1,,,[ $1])
ifelse($2,,,[else
    $2])
fi
])

dnl CARES_SET_COMPILER_BASIC_OPTS
dnl -----
dnl Sets compiler specific options/flags which do not
dnl depend on configure's debug, optimize or warnings
dnl options.

AC_DEFUN([CARES_SET_COMPILER_BASIC_OPTS], [
    AC_REQUIRE([CARES_CHECK_COMPILER])dnl
    AC_REQUIRE([CARES_SHFUNC_SQUEEZE])dnl
    #
    if test "$compiler_id" != "unknown"; then
        #
        if test "$compiler_id" = "GNU_C" ||
            test "$compiler_id" = "CLANG"; then
            CARES_CONVERT_INCLUDE_TO_ISYSTEM
        fi
        #
        tmp_save_CPPFLAGS="$CPPFLAGS"
        tmp_save_CFLAGS="$CFLAGS"
        tmp_CPPFLAGS=""
        tmp_CFLAGS=""
        #
        case "$compiler_id" in
            #
            CLANG)
                #
                dnl Disable warnings for unused arguments, otherwise clang will
                dnl warn about compile-time arguments used during link-time, like
                dnl -O and -g and -pedantic.
                tmp_CFLAGS="$tmp_CFLAGS -Qunused-arguments"
                ;;
            #

```

```

DEC_C)
#
dnl Select strict ANSI C compiler mode
tmp_CFLAGS="$tmp_CFLAGS -std1"
dnl Turn off optimizer ANSI C aliasing rules
tmp_CFLAGS="$tmp_CFLAGS -noansi_alias"
dnl Generate warnings for missing function prototypes
tmp_CFLAGS="$tmp_CFLAGS -warnprotos"
dnl Change some warnings into fatal errors
tmp_CFLAGS="$tmp_CFLAGS -msg_fatal toofewargs,toomanyargs"
;;
#
GNU_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
HP_UX_C)
#
dnl Disallow run-time
dereferencing of null pointers
tmp_CFLAGS="$tmp_CFLAGS -z"
dnl Disable some remarks
dnl #4227: padding struct with n bytes to align member
dnl #4255: padding size of struct with n bytes to alignment boundary
tmp_CFLAGS="$tmp_CFLAGS +W 4227,4255"
;;
#
IBM_C)
#
dnl Ensure that compiler optimizations are always thread-safe.
tmp_CFLAGS="$tmp_CFLAGS -qthreaded"
dnl Disable type based strict aliasing optimizations, using worst
dnl case aliasing assumptions when compiling. Type based aliasing
dnl would restrict the lvalues that could be safely used to access
dnl a data object.
tmp_CFLAGS="$tmp_CFLAGS -qnoansialias"
dnl Force compiler to stop after the compilation phase, without
dnl generating an object code file when compilation has errors.
tmp_CFLAGS="$tmp_CFLAGS -qhalt=e"
;;
#
INTEL_UNIX_C)
#
dnl On unix
this compiler uses gcc's header files, so
dnl we select ANSI C89 dialect plus GNU extensions.

```

```

tmp_CFLAGS="$tmp_CFLAGS -std=gnu89"
dnl Change some warnings into errors
dnl #140: too many arguments in function call
dnl #147: declaration is incompatible with 'previous one'
dnl #165: too few arguments in function call
dnl #266: function declared implicitly
tmp_CPPFLAGS="$tmp_CPPFLAGS -we 140,147,165,266"
dnl Disable some remarks
dnl #279: controlling expression is constant
dnl #981: operands are evaluated in unspecified order
dnl #1469: "cc" clobber ignored
tmp_CPPFLAGS="$tmp_CPPFLAGS -wd 279,981,1469"
;;
#
INTEL_WINDOWS_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
LCC)
#
dnl Disallow run-time dereferencing of null pointers
tmp_CFLAGS="$tmp_CFLAGS -n"
;;
#
SGI_MIPS_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
SGI_MIPSPRO_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
SUNPRO_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
TINY_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"

```

```

;;
#
WATCOM_UNIX_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
WATCOM_WINDOWS_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
esac
#
squeeze tmp_CPPFLAGS
squeeze tmp_CFLAGS
#
if test ! -z "$tmp_CFLAGS" || test ! -z "$tmp_CPPFLAGS"; then
  AC_MSG_CHECKING([if compiler accepts some basic options])
  CPPFLAGS="$tmp_save_CPPFLAGS $tmp_CPPFLAGS"
  CFLAGS="$tmp_save_CFLAGS $tmp_CFLAGS"
  squeeze CPPFLAGS
  squeeze CFLAGS
  CARES_COMPILER_WORKS_IFELSE([

    AC_MSG_RESULT([yes])
    AC_MSG_NOTICE([compiler options added: $tmp_CFLAGS $tmp_CPPFLAGS])
  ],[
    AC_MSG_RESULT([no])
    AC_MSG_WARN([compiler options rejected: $tmp_CFLAGS $tmp_CPPFLAGS])
    dnl restore initial settings
    CPPFLAGS="$tmp_save_CPPFLAGS"
    CFLAGS="$tmp_save_CFLAGS"
  ])
fi
#
fi
])

dnl CARES_SET_COMPILER_DEBUG_OPTS
dnl -----
dnl Sets compiler specific options/flags which depend
dnl on configure's debug option.

AC_DEFUN([CARES_SET_COMPILER_DEBUG_OPTS], [

```

```

AC_REQUIRE([CARES_CHECK_OPTION_DEBUG])dnl
AC_REQUIRE([CARES_CHECK_COMPILER])dnl
AC_REQUIRE([CARES_SHFUNC_SQUEEZE])dnl
#
if test "$compiler_id" != "unknown"; then
#
tmp_save_CFLAGS="$CFLAGS"
tmp_save_CPPFLAGS="$CPPFLAGS"
#
tmp_options=""
tmp_CFLAGS="$CFLAGS"
tmp_CPPFLAGS="$CPPFLAGS"
CARES_VAR_STRIP([tmp_CFLAGS],[flags_dbg_all])
CARES_VAR_STRIP([tmp_CPPFLAGS],[flags_dbg_all])
#
if test "$want_debug" = "yes"; then
AC_MSG_CHECKING([if compiler accepts debug enabling options])
tmp_options="$flags_dbg_yes"
fi
if test "$want_debug" = "no"; then
AC_MSG_CHECKING([if compiler accepts debug disabling options])
tmp_options="$flags_dbg_off"
fi
#
CPPFLAGS="$tmp_CPPFLAGS"
CFLAGS="$tmp_CFLAGS $tmp_options"
squeeze CPPFLAGS
squeeze CFLAGS
CARES_COMPILER_WORKS_IFELSE([
AC_MSG_RESULT([yes])
AC_MSG_NOTICE([compiler options added: $tmp_options])
],[
AC_MSG_RESULT([no])
AC_MSG_WARN([compiler options rejected: $tmp_options])
dnl restore initial settings
CPPFLAGS="$tmp_save_CPPFLAGS"
CFLAGS="$tmp_save_CFLAGS"
])
#
fi
])

```

```

dnl CARES_SET_COMPILER_OPTIMIZE_OPTS
dnl -----
dnl Sets compiler specific options/flags which depend
dnl on configure's optimize option.

```



```

AC_DEFUN([CARES_SET_COMPILER_OPTIMIZE_OPTS], [
AC_REQUIRE([CARES_CHECK_OPTION_OPTIMIZE])dnl
AC_REQUIRE([CARES_CHECK_COMPILER])dnl
AC_REQUIRE([CARES_SHFUNC_SQUEEZE])dnl
#
if test "$compiler_id" != "unknown"; then
#
tmp_save_CFLAGS="$CFLAGS"
tmp_save_CPPFLAGS="$CPPFLAGS"
#
tmp_options=""
tmp_CFLAGS="$CFLAGS"
tmp_CPPFLAGS="$CPPFLAGS"
honor_optimize_option="yes"
#
dnl If optimization request setting has not been explicitly specified,
dnl it has been derived from the debug setting and initially assumed.
dnl This initially assumed optimizer setting will finally be ignored
dnl if CFLAGS or CPPFLAGS already hold optimizer flags. This implies
dnl that an initially assumed optimizer setting might not be honored.
#
if test "$want_optimize" = "assume_no" ||
test "$want_optimize" = "assume_yes"; then
AC_MSG_CHECKING([if compiler optimizer assumed setting might be used])
CARES_VAR_MATCH_IFELSE([tmp_CFLAGS],[flags_opt_all],[
honor_optimize_option="no"

])
CARES_VAR_MATCH_IFELSE([tmp_CPPFLAGS],[flags_opt_all],[
honor_optimize_option="no"
])
AC_MSG_RESULT([$honor_optimize_option])
if test "$honor_optimize_option" = "yes"; then
if test "$want_optimize" = "assume_yes"; then
want_optimize="yes"
fi
if test "$want_optimize" = "assume_no"; then
want_optimize="no"
fi
fi
fi
#
if test "$honor_optimize_option" = "yes"; then
CARES_VAR_STRIP([tmp_CFLAGS],[flags_opt_all])
CARES_VAR_STRIP([tmp_CPPFLAGS],[flags_opt_all])
if test "$want_optimize" = "yes"; then
AC_MSG_CHECKING([if compiler accepts optimizer enabling options])
tmp_options="$flags_opt_yes"

```

```

fi
if test "$want_optimize" = "no"; then
    AC_MSG_CHECKING([if compiler accepts optimizer disabling options])
    tmp_options="$flags_opt_off"
fi
CPPFLAGS="$tmp_CPPFLAGS"
CFLAGS="$tmp_CFLAGS $tmp_options"
squeeze CPPFLAGS
squeeze CFLAGS
CARES_COMPILER_WORKS_IFELSE([
    AC_MSG_RESULT([yes])
    AC_MSG_NOTICE([compiler options added: $tmp_options])
],[
    AC_MSG_RESULT([no])
    AC_MSG_WARN([compiler options rejected: $tmp_options])
    dnl restore initial settings
    CPPFLAGS="$tmp_save_CPPFLAGS"
    CFLAGS="$tmp_save_CFLAGS"
])
fi
#
fi
])

```

```

dnl CARES_SET_COMPILER_WARNING_OPTS
dnl -----
dnl Sets compiler options/flags which depend on
dnl configure's warnings given option.

```

```

AC_DEFUN([CARES_SET_COMPILER_WARNING_OPTS], [
    AC_REQUIRE([CARES_CHECK_OPTION_WARNINGS])dnl
    AC_REQUIRE([CARES_CHECK_COMPILER])dnl
    AC_REQUIRE([CARES_SHFUNC_SQUEEZE])dnl
    #
    if test "$compiler_id" != "unknown"; then
        #
        tmp_save_CPPFLAGS="$CPPFLAGS"
        tmp_save_CFLAGS="$CFLAGS"
        tmp_CPPFLAGS=""
        tmp_CFLAGS=""
        #
        case "$compiler_id" in
            #
            CLANG)
                #
                if test "$want_warnings"

```

```

= "yes"; then
    dnl All versions of clang support the same warnings as at least
    dnl gcc 4.2.1 except -Wunused.
    tmp_CFLAGS="$tmp_CFLAGS -pedantic"
    tmp_CFLAGS="$tmp_CFLAGS -Wall -Wextra"
    tmp_CFLAGS="$tmp_CFLAGS -Wpointer-arith -Wwrite-strings"
    tmp_CFLAGS="$tmp_CFLAGS -Wshadow"
    tmp_CFLAGS="$tmp_CFLAGS -Winline -Wnested-externs"
    tmp_CFLAGS="$tmp_CFLAGS -Wmissing-declarations"
    tmp_CFLAGS="$tmp_CFLAGS -Wmissing-prototypes"
    tmp_CFLAGS="$tmp_CFLAGS -Wno-long-long"
    tmp_CFLAGS="$tmp_CFLAGS -Wfloat-equal"
    tmp_CFLAGS="$tmp_CFLAGS -Wno-multichar -Wsign-compare"
    tmp_CFLAGS="$tmp_CFLAGS -Wundef"
    tmp_CFLAGS="$tmp_CFLAGS -Wno-format-nonliteral"
    tmp_CFLAGS="$tmp_CFLAGS -Wendif-labels -Wstrict-prototypes"
    tmp_CFLAGS="$tmp_CFLAGS -Wdeclaration-after-statement"
    tmp_CFLAGS="$tmp_CFLAGS -Wcast-align"
    tmp_CFLAGS="$tmp_CFLAGS -Wno-system-headers"
    tmp_CFLAGS="$tmp_CFLAGS -Wshorten-64-to-32"
    #
    dnl Only clang 1.1 or later
    if test "$compiler_num" -ge "101"; then
        tmp_CFLAGS="$tmp_CFLAGS -Wunused"
    fi
fi
;;
#
DEC_C)
#
if test "$want_warnings" = "yes"; then
    dnl Select a higher warning level than default level2
    tmp_CFLAGS="$tmp_CFLAGS -msg_enable level3"
fi
;;
#
GNU_C)
#
if test "$want_warnings" = "yes"; then
    #
    dnl Do not enable -pedantic when cross-compiling with a gcc older
    dnl than 3.0, to avoid warnings from third party system headers.
    if test "x$cross_compiling" != "xyes" ||
        test "$compiler_num" -ge "300"; then
        tmp_CFLAGS="$tmp_CFLAGS -pedantic"
    fi
    #
    dnl Set of options we believe *ALL* gcc versions support:

```

```

tmp_CFLAGS="$tmp_CFLAGS -Wall -W"

#
dnl Only gcc 1.4 or later
if test "$compiler_num" -ge "104"; then
    tmp_CFLAGS="$tmp_CFLAGS -Wpointer-arith -Wwrite-strings"
    dnl If not cross-compiling with a gcc older than 3.0
    if test "x$cross_compiling" != "xyes" ||
        test "$compiler_num" -ge "300"; then
        tmp_CFLAGS="$tmp_CFLAGS -Wunused -Wshadow"
    fi
fi
#
dnl Only gcc 2.7 or later
if test "$compiler_num" -ge "207"; then
    tmp_CFLAGS="$tmp_CFLAGS -Winline -Wnested-externs"
    dnl If not cross-compiling with a gcc older than 3.0
    if test "x$cross_compiling" != "xyes" ||
        test "$compiler_num" -ge "300"; then
        tmp_CFLAGS="$tmp_CFLAGS -Wmissing-declarations"
        tmp_CFLAGS="$tmp_CFLAGS -Wmissing-prototypes"
    fi
fi
#
dnl Only gcc 2.95 or later
if test "$compiler_num" -ge "295"; then

tmp_CFLAGS="$tmp_CFLAGS -Wno-long-long"
fi
#
dnl Only gcc 2.96 or later
if test "$compiler_num" -ge "296"; then
    tmp_CFLAGS="$tmp_CFLAGS -Wfloat-equal"
    tmp_CFLAGS="$tmp_CFLAGS -Wno-multichar -Wsign-compare"
    dnl -Wundef used only if gcc is 2.96 or later since we get
    dnl lots of "'_POSIX_C_SOURCE' is not defined" in system
    dnl headers with gcc 2.95.4 on FreeBSD 4.9
    tmp_CFLAGS="$tmp_CFLAGS -Wundef"
fi
#
dnl Only gcc 2.97 or later
if test "$compiler_num" -ge "297"; then
    tmp_CFLAGS="$tmp_CFLAGS -Wno-format-nonliteral"
fi
#
dnl Only gcc 3.0 or later
if test "$compiler_num" -ge "300"; then
    dnl -Wunreachable-code seems totally unreliable on my gcc 3.3.2 on

```

```

dnl on i686-Linux as it gives us heaps with false positives.
dnl Also, on gcc 4.0.X it is totally
unbearable and complains all
dnl over making it unusable for generic purposes. Let's not use it.
tmp_CFLAGS="$tmp_CFLAGS"
fi
#
dnl Only gcc 3.3 or later
if test "$compiler_num" -ge "303"; then
tmp_CFLAGS="$tmp_CFLAGS -Wendif-labels -Wstrict-prototypes"
fi
#
dnl Only gcc 3.4 or later
if test "$compiler_num" -ge "304"; then
tmp_CFLAGS="$tmp_CFLAGS -Wdeclaration-after-statement"
fi
#
dnl Only gcc 4.3 or later
if test "$compiler_num" -ge "403"; then
tmp_CFLAGS="$tmp_CFLAGS -Wtype-limits -Wold-style-declaration"
tmp_CFLAGS="$tmp_CFLAGS -Wmissing-parameter-type -Wempty-body"
tmp_CFLAGS="$tmp_CFLAGS -Wclobbered -Wignored-qualifiers"
fi
#
fi
#
dnl Do not issue warnings for code in system include paths.
if test "$compiler_num" -ge "300"; then
tmp_CFLAGS="$tmp_CFLAGS -Wno-system-headers"
else
dnl When cross-compiling with a gcc older than 3.0, disable
dnl some warnings triggered on third party system headers.
if test "x$cross_compiling" = "xyes"; then
if test "$compiler_num" -ge "104"; then
dnl gcc 1.4 or later
tmp_CFLAGS="$tmp_CFLAGS -Wno-unused -Wno-shadow"
fi
if test "$compiler_num" -ge "207"; then
dnl gcc 2.7 or later
tmp_CFLAGS="$tmp_CFLAGS -Wno-missing-declarations"
tmp_CFLAGS="$tmp_CFLAGS -Wno-missing-prototypes"
fi
fi
fi
fi
;;
#
HP_UX_C)
#

```

```

if test "$want_warnings" = "yes"; then
    dnl Issue all warnings
    tmp_CFLAGS="$tmp_CFLAGS +w1"
fi
;;
#
IBM_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
INTEL_UNIX_C)

#
if test "$want_warnings" = "yes"; then
    if test "$compiler_num" -gt "600"; then
        dnl Show errors, warnings, and remarks
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wall -w2"
        dnl Perform extra compile-time code checking
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wcheck"
        dnl Warn on nested comments
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wcomment"
        dnl Show warnings relative to deprecated features
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wdeprecated"
        dnl Enable warnings for missing prototypes
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wmissing-prototypes"
        dnl Enable warnings for 64-bit portability issues
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wp64"
        dnl Enable warnings for questionable pointer arithmetic
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wpointer-arith"
        dnl Check for function return typw issues
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wreturn-type"
        dnl Warn
on variable declarations hiding a previous one
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wshadow"
        dnl Warn when a variable is used before initialized
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wuninitialized"
        dnl Warn if a declared function is not used
        tmp_CPPFLAGS="$tmp_CPPFLAGS -Wunused-function"
    fi
fi
dnl Disable using EBP register in optimizations
tmp_CFLAGS="$tmp_CFLAGS -fno-omit-frame-pointer"
dnl Disable use of ANSI C aliasing rules in optimizations
tmp_CFLAGS="$tmp_CFLAGS -fno-strict-aliasing"
dnl Value-safe optimizations on floating-point data
tmp_CFLAGS="$tmp_CFLAGS -fp-model precise"

```

```

dnl Only icc 10.0 or later
if test "$compiler_num" -ge "1000"; then
    dnl Disable vectorizer diagnostic information
    tmp_CFLAGS="$tmp_CFLAGS -vec-report0"
fi
;;
#
INTEL_WINDOWS_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
LCC)
#
if test "$want_warnings" = "yes"; then
    dnl Highest warning level is double -A, next is single -A.
    dnl Due to the big number of warnings these trigger on third
    dnl party header files it is impractical for us to use any of
    dnl them here. If you want them simply define it in CPPFLAGS.
    tmp_CFLAGS="$tmp_CFLAGS"
fi
;;
#
SGI_MIPS_C)
#
if test "$want_warnings" = "yes"; then
    dnl Perform stricter semantic and lint-like checks
    tmp_CFLAGS="$tmp_CFLAGS -fullwarn"
fi
;;
#
SGI_MIPSPRO_C)
#
if test "$want_warnings" = "yes"; then
    dnl Perform stricter semantic and lint-like checks
    tmp_CFLAGS="$tmp_CFLAGS -fullwarn"
    dnl Disable some remarks
    dnl #1209: controlling expression is constant
    tmp_CFLAGS="$tmp_CFLAGS -woff 1209"
fi
;;
#
SUNPRO_C)
#
if test "$want_warnings" = "yes"; then
    dnl Perform stricter semantic and lint-like checks

```

```

    tmp_CFLAGS="$tmp_CFLAGS -v"
fi
;;
#
TINY_C)
#
if test "$want_warnings" = "yes"; then
    dnl Activate all warnings
    tmp_CFLAGS="$tmp_CFLAGS -Wall"
    dnl Make string constants be of type const char *
    tmp_CFLAGS="$tmp_CFLAGS -Wwrite-strings"
    dnl Warn use of unsupported GCC features ignored by TCC
    tmp_CFLAGS="$tmp_CFLAGS -Wunsupported"
fi
;;
#
WATCOM_UNIX_C)
#
if test "$want_warnings" = "yes"; then
    dnl Issue all warnings
    tmp_CFLAGS="$tmp_CFLAGS -Wall -Wextra"
fi
;;
#
WATCOM_WINDOWS_C)
#
dnl Placeholder
tmp_CFLAGS="$tmp_CFLAGS"
;;
#
esac
#
squeeze tmp_CPPFLAGS
squeeze tmp_CFLAGS
#
if test ! -z "$tmp_CFLAGS" || test ! -z "$tmp_CPPFLAGS"; then
    AC_MSG_CHECKING([if compiler accepts strict warning options])
    CPPFLAGS="$tmp_save_CPPFLAGS $tmp_CPPFLAGS"
    CFLAGS="$tmp_save_CFLAGS $tmp_CFLAGS"
    squeeze CPPFLAGS
    squeeze CFLAGS
    CARES_COMPILER_WORKS_IFELSE([
        AC_MSG_RESULT([yes])
        AC_MSG_NOTICE([compiler options added: $tmp_CFLAGS $tmp_CPPFLAGS])
    ],[
        AC_MSG_RESULT([no])
        AC_MSG_WARN([compiler options rejected: $tmp_CFLAGS $tmp_CPPFLAGS])
        dnl restore initial settings

```



```

        CPPFLAGS="$tmp_save_CPPFLAGS"
        CFLAGS="$tmp_save_CFLAGS"
    })
fi
#
fi
})

```

```

dnl CARES_SHFUNC_SQUEEZE
dnl -----
dnl Declares a shell function squeeze() which removes
dnl redundant whitespace out of a shell variable.

```

```

AC_DEFUN([CARES_SHFUNC_SQUEEZE], [
squeeze() {
    _sqz_result=""
    eval _sqz_input=\[${$}1
    for _sqz_token in $_sqz_input; do
        if test -z "$_sqz_result";
        then
            _sqz_result="$_sqz_token"
        else
            _sqz_result="$_sqz_result $_sqz_token"
        fi
    done
    eval [${$}1]=$_sqz_result
    return 0
}
])

```

```

dnl CARES_CHECK_CURLDEBUG
dnl -----
dnl Settings which depend on configure's curldebug given
dnl option, and other additional configure pre-requisites.
dnl Using the curl debug memory tracking feature in c-ares
dnl is a hack that actually can only be used/enabled when
dnl c-ares is built directly in curl's CVS tree, as a static
dnl library or as a shared one on those systems on which
dnl shared libraries support undefined symbols, along with
dnl an equally configured libcurl.

```

```

AC_DEFUN([CARES_CHECK_CURLDEBUG], [
    AC_REQUIRE([CARES_SHFUNC_SQUEEZE])dnl
    cares_builddir=`pwd`
    supports_curldebug="unknown"
    if test "$want_curldebug" = "yes"; then

```

```

if test "x$enable_shared" != "xno" &&
test "x$enable_shared" != "xyes"; then
AC_MSG_WARN([unknown enable_shared setting.])

supports_curldebug="no"
fi
if test "x$enable_static" != "xno" &&
test "x$enable_static" != "xyes"; then
AC_MSG_WARN([unknown enable_static setting.])
supports_curldebug="no"
fi
if test "$supports_curldebug" != "no"; then
if test "$enable_shared" = "yes" &&
test "$need_no_undefined" = "yes"; then
supports_curldebug="no"
AC_MSG_WARN([shared library does not support undefined symbols.])
fi
if test ! -f "$srcdir/./include/curl/curlbuild.h.dist"; then
AC_MSG_WARN([c-ares source not embedded in curl's CVS tree.])
supports_curldebug="no"
elif test ! -f "$srcdir/./include/curl/Makefile.in"; then
AC_MSG_WARN([curl's buildconf has not been run.])
supports_curldebug="no"
elif test ! -f "$cares_builddir/./libcurl.pc" ||
test ! -f "$cares_builddir/./include/curl/curlbuild.h"; then
AC_MSG_WARN([curl's configure has not been run.])
supports_curldebug="no"
elif test ! -f "$cares_builddir/./lib/curl_config.h"; then
AC_MSG_WARN([libcurl's curl_config.h is missing.])
supports_curldebug="no"
elif test ! -f "$cares_builddir/./config.status"; then
AC_MSG_WARN([curl's config.status is missing.])
supports_curldebug="no"
fi
if test "$supports_curldebug" != "no"; then
grep '^#define USE_ARES' "$cares_builddir/./lib/curl_config.h" >/dev/null
if test "$?" -ne "0"; then
AC_MSG_WARN([libcurl configured without c-ares support.])
supports_curldebug="no"
fi
fi
if test "$supports_curldebug" != "no"; then
grep 'CPPFLAGS.*CURLDEBUG' "$cares_builddir/./config.status" >/dev/null
if test "$?" -ne "0"; then
AC_MSG_WARN([libcurl configured without curldebug support.])
supports_curldebug="no"
fi
fi

```

```

fi
fi
#
if test "$want_curldebug" = "yes"; then
    AC_MSG_CHECKING([if curl debug memory tracking
can be enabled])
    test "$supports_curldebug" = "no" || supports_curldebug="yes"
    AC_MSG_RESULT([$supports_curldebug])
    if test "$supports_curldebug" = "no"; then
        AC_MSG_WARN([cannot enable curl debug memory tracking.])
        want_curldebug="no"
    fi
fi
#
if test "$want_curldebug" = "yes"; then
    dnl TODO: Verify if the BUILDING_LIBCURL definition is still required.
    AC_DEFINE(BUILDING_LIBCURL, 1, [when building as static part of libcurl])
    CPPFLAGS="$CPPFLAGS -DCURLDEBUG"
    squeeze CPPFLAGS
fi
#
if test "$want_debug" = "yes"; then
    CPPFLAGS="$CPPFLAGS -DDEBUGBUILD"
    squeeze CPPFLAGS
fi
])

```

```

dnl CARES_CHECK_NO_UNDEFINED
dnl -----
dnl Checks if the -no-undefined flag must be used when
dnl building shared libraries. This is required on all
dnl systems on which shared libraries should not have
dnl references to undefined symbols. This check should
dnl not be done before AC-PROG-LIBTOOL.

```

```

AC_DEFUN([CARES_CHECK_NO_UNDEFINED],
[
    AC_BEFORE([$0],[CARES_CHECK_CURLDEBUG])dnl
    AC_MSG_CHECKING([if shared libraries need -no-undefined])
    need_no_undefined="no"
    case $host in
        *-*-cygwin* | *-*-mingw* | *-*-pw32* | *-*-cegcc* | *-*-aix*)
            need_no_undefined="yes"
        ;;
    esac
    if test "x$allow_undefined" = "xno"; then
        need_no_undefined="yes"
    fi
])

```

```

elif test "x$allow_undefined_flag" = "xunsupported"; then
  need_no_undefined="yes"
fi
AC_MSG_RESULT($need_no_undefined)
])

```

```

dnl CARES_CHECK_PROG_CC
dnl -----
dnl Check for compiler program, preventing CFLAGS and
dnl CPPFLAGS from being unexpectedly changed.

```

```

AC_DEFUN([CARES_CHECK_PROG_CC], [
  ac_save_CFLAGS="$CFLAGS"
  ac_save_CPPFLAGS="$CPPFLAGS"
  AC_PROG_CC
  CFLAGS="$ac_save_CFLAGS"
  CPPFLAGS="$ac_save_CPPFLAGS"
])

```

```

dnl CARES_CHECK_COMPILER_HALT_ON_ERROR
dnl -----
dnl Verifies if the compiler actually halts after the
dnl compilation
dnl phase without generating any object
dnl code file, when the source compiles with errors.

```

```

AC_DEFUN([CARES_CHECK_COMPILER_HALT_ON_ERROR], [
  AC_MSG_CHECKING([if compiler halts on compilation errors])
  AC_COMPILE_IFELSE([
    AC_LANG_PROGRAM([
      ],[
        force compilation error
      ])
  ],[
    AC_MSG_RESULT([no])
    AC_MSG_ERROR([compiler does not halt on compilation errors.])
  ],[
    AC_MSG_RESULT([yes])
  ])
])

```

```

dnl CARES_CHECK_COMPILER_ARRAY_SIZE_NEGATIVE
dnl -----
dnl Verifies if the compiler actually halts after the
dnl compilation phase without generating any object

```

dnl code file, when the source code tries to define a
dnl type for a constant array with negative dimension.

```
AC_DEFUN([CARES_CHECK_COMPILER_ARRAY_SIZE_NEGATIVE], [
AC_REQUIRE([CARES_CHECK_COMPILER_HALT_ON_ERROR])dnl
AC_MSG_CHECKING([if compiler halts on negative sized arrays])
AC_COMPILE_IFELSE([
  AC_LANG_PROGRAM([[
    typedef char bad_t[sizeof(char)
== sizeof(int) ? -1 : -1 ];
  ]],[[
    bad_t dummy;
  ]])
],[
  AC_MSG_RESULT([no])
  AC_MSG_ERROR([compiler does not halt on negative sized arrays.])
],[
  AC_MSG_RESULT([yes])
])
])
```

dnl CARES_CHECK_COMPILER_STRUCT_MEMBER_SIZE

dnl -----

dnl Verifies if the compiler is capable of handling the
dnl size of a struct member, struct which is a function
dnl result, as a compilation-time condition inside the
dnl type definition of a constant array.

```
AC_DEFUN([CARES_CHECK_COMPILER_STRUCT_MEMBER_SIZE], [
AC_REQUIRE([CARES_CHECK_COMPILER_ARRAY_SIZE_NEGATIVE])dnl
AC_MSG_CHECKING([if compiler struct member size checking works])
tst_compiler_check_one_works="unknown"
AC_COMPILE_IFELSE([
  AC_LANG_PROGRAM([[
    struct mystruct {
      int mi;
      char mc;
      struct mystruct *next;
    };
    struct mystruct myfunc();
    typedef char good_t1[sizeof(myfunc().mi) == sizeof(int) ? 1 : -1 ];

    typedef char good_t2[sizeof(myfunc().mc) == sizeof(char) ? 1 : -1 ];
  ]],[[
    good_t1 dummy1;
    good_t2 dummy2;
  ]])
])
```

```

],[
    tst_compiler_check_one_works="yes"
],[
    tst_compiler_check_one_works="no"
    sed 's/^/cc-src: /' conftest.$ac_ext >&6
    sed 's/^/cc-err: /' conftest.err >&6
])
tst_compiler_check_two_works="unknown"
AC_COMPILE_IFELSE([
    AC_LANG_PROGRAM([[
        struct mystruct {
            int mi;
            char mc;
            struct mystruct *next;
        };
        struct mystruct myfunc();
        typedef char bad_t1[sizeof(myfunc().mi) != sizeof(int) ? 1 : -1 ];
        typedef char bad_t2[sizeof(myfunc().mc) != sizeof(char) ? 1 : -1 ];
    ]],[[
        bad_t1 dummy1;
        bad_t2 dummy2;
    ]])
],[
    tst_compiler_check_two_works="no"
],[
    tst_compiler_check_two_works="yes"
])
if test "$tst_compiler_check_one_works" = "yes" &&
    test "$tst_compiler_check_two_works" = "yes"; then
    AC_MSG_RESULT([yes])
else
    AC_MSG_RESULT([no])
    AC_MSG_ERROR([compiler
fails struct member size checking.])
fi
])

dnl CARES_CHECK_COMPILER_SYMBOL_HIDING
dnl -----
dnl Verify if compiler supports hiding library internal symbols, setting
dnl shell variable supports_symbol_hiding value as appropriate, as well as
dnl variables symbol_hiding_CFLAGS and symbol_hiding_EXTERN when supported.

AC_DEFUN([CARES_CHECK_COMPILER_SYMBOL_HIDING], [
    AC_REQUIRE([CARES_CHECK_COMPILER])dnl
    AC_BEFORE([$0],[CARES_CONFIGURE_SYMBOL_HIDING])dnl
    AC_MSG_CHECKING([if compiler supports hiding library internal symbols])

```

```

supports_symbol_hiding="no"
symbol_hiding_CFLAGS=""
symbol_hiding_EXTERN=""
tmp_CFLAGS=""
tmp_EXTERN=""
case "$compiler_id" in
  CLANG)
    dnl All versions of clang support -fvisibility=
    tmp_EXTERN="__attribute__((visibility(\"default\")))"
    tmp_CFLAGS="-fvisibility=hidden"
    supports_symbol_hiding="yes"
    ;;
  GNU_C)
    dnl Only gcc 3.4 or later
    if
test "$compiler_num" -ge "304"; then
    if $CC --help --verbose 2>&1 | grep fvisibility= > /dev/null ; then
      tmp_EXTERN="__attribute__((visibility(\"default\")))"
      tmp_CFLAGS="-fvisibility=hidden"
      supports_symbol_hiding="yes"
    fi
  fi
  ;;
  INTEL_UNIX_C)
    dnl Only icc 9.0 or later
    if test "$compiler_num" -ge "900"; then
      if $CC --help --verbose 2>&1 | grep fvisibility= > /dev/null ; then
        tmp_save_CFLAGS="$CFLAGS"
        CFLAGS="$CFLAGS -fvisibility=hidden"
        AC_LINK_IFELSE([
          AC_LANG_PROGRAM([
#            include <stdio.h>
          ]],[
            printf("icc fvisibility bug test");
          ]])
        ],[
          tmp_EXTERN="__attribute__((visibility(\"default\")))"
          tmp_CFLAGS="-fvisibility=hidden"
          supports_symbol_hiding="yes"
        ])
        CFLAGS="$tmp_save_CFLAGS"
      fi
    fi
    ;;
  SUNPRO_C)
    if $CC 2>&1 |
grep flags >/dev/null && $CC -flags | grep xldscope= >/dev/null ; then
      tmp_EXTERN="__global"

```

```

    tmp_CFLAGS="-xldscope=hidden"
    supports_symbol_hiding="yes"
fi
;;
esac
if test "$supports_symbol_hiding" = "yes"; then
    tmp_save_CFLAGS="$CFLAGS"
    CFLAGS="$tmp_save_CFLAGS $tmp_CFLAGS"
    squeeze CFLAGS
    AC_COMPILE_IFELSE([
        AC_LANG_PROGRAM([[
            $tmp_EXTERN char *dummy(char *buff);
            char *dummy(char *buff)
            {
                if(buff)
                    return ++buff;
                else
                    return buff;
            }
        ]],[[
            char b[16];
            char *r = dummy(&b);
            if(r)
                return (int)*r;
        ]])
    ],[
        supports_symbol_hiding="yes"
    ],[
        supports_symbol_hiding="no"
        echo " " >&6
        sed 's/^/cc-src: /' conftest.$ac_ext >&6
        sed 's/^/cc-err: /' conftest.err >&6
        echo " " >&6
    ])
    CFLAGS="$tmp_save_CFLAGS"
fi
if test "$supports_symbol_hiding" = "yes"; then
    AC_MSG_RESULT([yes])
    symbol_hiding_CFLAGS="$tmp_CFLAGS"
    symbol_hiding_EXTERN="$tmp_EXTERN"
else
    AC_MSG_RESULT([no])
fi
])

dnl CARES_VAR_MATCH (VARNAME, VALUE)
dnl -----

```


dnl Verifies if shell variable VARNAME contains VALUE.
dnl Contents of variable VARNAME and VALUE are handled
dnl as whitespace separated lists of words. If at least
dnl one word of VALUE is present in VARNAME the match
dnl is considered positive, otherwise false.

```
AC_DEFUN([CARES_VAR_MATCH], [  
  ac_var_match_word="no"  
  for word1 in ${$1}; do  
    for word2 in [$2]; do  
      if test "$word1" = "$word2"; then  
        ac_var_match_word="yes"  
      fi  
    done  
  done  
])
```

dnl CARES_VAR_MATCH_IFELSE (VARNAME, VALUE,
dnl [ACTION-IF-MATCH], [ACTION-IF-NOT-MATCH])
dnl -----
dnl This performs a CURL_VAR_MATCH check and executes
dnl first branch if the match is positive, otherwise
dnl the second branch is executed.

```
AC_DEFUN([CARES_VAR_MATCH_IFELSE],  
[  
  CARES_VAR_MATCH([$1],[$2])  
  if test "$ac_var_match_word" = "yes"; then  
    ifelse($3,,,$3)  
  else  
    ifelse($4,,,$4)  
  fi  
])
```

dnl CARES_VAR_STRIP (VARNAME, VALUE)
dnl -----
dnl Contents of variable VARNAME and VALUE are handled
dnl as whitespace separated lists of words. Each word
dnl from VALUE is removed from VARNAME when present.

```
AC_DEFUN([CARES_VAR_STRIP], [  
  AC_REQUIRE([CARES_SHFUNC_SQUEEZE])dnl  
  ac_var_stripped=""  
  for word1 in ${$1}; do  
    ac_var_strip_word="no"  
    for word2 in [$2]; do
```

```

    if test "$word1" = "$word2"; then
        ac_var_strip_word="yes"
    fi
done
if test "$ac_var_strip_word" = "no"; then
    ac_var_stripped="$ac_var_stripped $word1"
fi
done
dnl squeeze whitespace out of result
[$1]="$ac_var_stripped"
squeeze [$1]
))

```

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*/

Found in path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_llist.c

```

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_gethostbyname.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_timeout.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares__close_sockets.c
*
/c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_expand_name.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_strcasecmp.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_expand_string.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_mkquery.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_strcasecmp.h
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_strdup.h
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_gethostbyaddr.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_dns.h
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_llist.h
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_strdup.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_writev.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_fds.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_strerror.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_query.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_search.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares__read_line.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_a_reply.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_ns_reply.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_ptr_reply.c
*
/c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_free_hostent.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_send.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_writev.h

```

No license file was found, but licenses were detected in source scan.

```

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*/

```

Found in path(s):

```

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_setup.h

```

No license file was found, but licenses were detected in source scan.

```

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*

```



```

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*/

```

Found in path(s):

```
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/inet_ntop.c
```

No license file was found, but licenses were detected in source scan.

```
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```

```

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*/

```

Found in path(s):

```
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_cancel.c
```

No license file was found, but licenses were detected in source scan.

Changelog for the c-ares project

Version 1.7.1 (Mar 23, 2010)

```
* May 31, 2010 (Jakub Hrozek)
```

```
- Use the last instance of domain/search, not the first one
```

```
* March 23, 2010 (Daniel Stenberg)
```

```
- We switched from CVS to git. See http://github.com/bagder/c-ares
```

```
* March 5, 2010 (Daniel Stenberg)
```

```
- Daniel Johnson provided fixes for building with the clang compiler.
```

* March 5, 2010 (Yang Tse)

- Added IPv6 name servers support. Implementation has been based on code, comments and feedback provided November and December of 2008 by Daniel Stenberg, Gregor Jasny, Phil Blundell and myself, December 2009 by Cedric Bail, and February 2010 by Jakub Hrozek on the c-ares mailing list. On March I reviewed all that, selected the best of each, and adjusted or extended parts of it to make the best fit.

The external and visible result of all this is that two new functions are added to the external API, `ares_get_servers()` and `ares_set_servers()`, which becomes now the preferred way of getting and setting name servers for any ares channel as these support both IPv4 and IPv6 name servers.

In order to not break ABI compatibility, `ares_init_options()` with option mask `ARES_OPT_SERVERS` and `ares_save_options()` may still be used in code which is intended to run on IPv4-only stacks. But remember that these functions do not support IPv6 name servers. This implies that if the user is capable of defining or providing an IPv6 name server, and the app is using `ares_init_options()` or `ares_save_options()` at some point to handle the name servers, the app will likely lose IPv6 name servers.

* January 28, 2010 (Daniel Stenberg)

- Tommie Gannert pointed out a silly bug in `ares_process_fd()` since it didn't check for broken connections like `ares_process()` did. Based on that, I merged the two functions into a single generic one with two front-ends.

* December 29, 2009 (Yang Tse)

- Laszlo Tamas Szabo adjusted `Makefile.msvc` compiler options so that where run-time error checks enabling compiler option `/GZ` was used it is replaced with equivalent `/RTCsu` for Visual Studio 2003 and newer versions. Option `/GX` is replaced with equivalent `/EHsc` for all versions. Also fixed socket data type for internal `configure_socket` function.

* December 21, 2009 (Yang Tse)

- Ingmar Runge noticed that Windows `config-win32.h` configuration file did not include a definition for `HAVE_CLOSESOCKET` which resulted in function `close()` being inappropriately used to close sockets.

Version 1.7.0 (Nov 30, 2009)

* November 26, 2009 (Yang Tse)

- Larry Lansing fixed `ares_parse_srv_reply` to properly parse replies which might contain non-SRV answers, skipping over potential non-SRV ones such as CNAMEs.

* November 23, 2009 (Yang Tse)

- Changed naming convention for c-ares libraries built with MSVC, details and build instructions provided in README.msvc file.

* November 22, 2009 (Yang Tse)

- Jakub Hrozek fixed more function prototypes in man pages to sync them with the ones declared in ares.h

- Jakub Hrozek renamed addrttl and addr6ttl structs to ares_addrttl and ares_addr6ttl in order to prevent name space pollution, along with necessary changes to code base and man pages. This change does not break ABI, there is no need to recompile existing applications. But existing applications using these structs with the old name will need source code adjustments when recompiled using c-ares 1.7.0.

* November 21, 2009 (Yang Tse)

- Added manifest stuff to Makefile.msvc.

* November 20, 2009 (Yang Tse)

- Fixed several function prototypes in man pages that were out of sync with the ones declared in ares.h. Added ares_free_data() along with man page. Updated ares_parse_srv_reply() and ares_parse_txt_reply() with changes from Jakub Hrozek making these now return linked lists instead of arrays, and merging the ares_free_data() adjustments.

* November 10, 2009 (Yang Tse)

- Updated MSVC 6.0 project files to match settings from Makefile.msvc.

* November 9, 2009 (Yang Tse)

- Makefile.msvc is now the reference method to build c-ares and sample programs with any MSVC compiler or MS Visual Studio version. If no option or target are specified it builds dynamic and static c-ares libraries in debug and release flavours and also builds all sample programs using each of the different c-ares libraries.

* November 2, 2009 (Yang Tse)

- Renamed c-ares setup.h to ares_setup.h

* October 31, 2009 (Yang Tse)

- Symbol hiding configure options are named now --enable-symbol-hiding and --disable-symbol-hiding in an attempt to make them less ambiguous.

* October 30, 2009 (Yang Tse)

- Many fixes for ares_parse_txt_reply()

* October 29, 2009 (Daniel Stenberg)

- Jakub Hrozek added ares_parse_txt_reply() for TXT parsing

* October 29, 2009 (Yang Tse)

- Updated MSVC 6.0 workspace and project files that allows building dynamic and static c-ares libraries in debug and release flavours.

Additionally each of the three sample programs is built against each of the four possible c-ares libraries, generating all this a total number of 12 executables and 4 libraries.

* October 28, 2009 (Yang Tse)

- Initial step towards the ability to reduce c-ares exported symbols when built as a shared library based on the 'visibility' attribute for GNUC and Intel compilers and based on `__global` for Sun compilers, taking also in account `__declspec` function decoration for Win32 and Symbian DLL's.

* October 27, 2009 (Yang Tse)

- Fixed Pelles C Win32 target compilation issues.

* October 23, 2009 (Yang Tse)

- John Engelhart noticed an unreleased problem relative to a duplicate `ARES_ECANCELLED` error code value and missing error code description.

* October 7, 2009 (Yang Tse)

- Overhauled `ares__get_hostent()` Fixing out of bounds memory overwrite triggered with malformed `/etc/hosts` file. Improving parsing of `/etc/hosts` file. Validating requested address family. Ensuring that failures always return a NULL pointer. Adjusting header inclusions.

* October 6, 2009 (Yang Tse)

- Fix `ssize_t` redefinition errors on WIN64 reported by Alexey Simak.

* September 29, 2009 (Yang Tse)

- Make configure script also check if `_REENTRANT` definition is required to make `errno` available as a preprocessor macro.

* September 7, 2009 (Yang Tse)

- Add `T_SRV` portability check to `ares_parse_srv_reply.c`

* 4 Sep 2009 (Daniel Stenberg)

- Jakub Hrozek added `ares_parse_srv_reply()` for SRV parsing

* 3 Aug 2009 (Daniel Stenberg)

- Joshua Kwan fixed the init routine to fill in the defaults for stuff that fails to get init'd by other means. This fixes a case of when the c-ares init fails when internet access is gone.

- Timo Teras changed the reason code used in the resolve callback done when `ares_cancel()` is used, to be `ARES_ECANCELLED` instead of `ARES_ETIMEOUT` to better allow the callback to know what's happening.

* 14 Jul 2009 (Gunter Knauf)

- renamed generated `config.h` to `ares_config.h` to avoid any future clashes with `config.h` from other projects.

* June 20 2009 (Yang Tse)

- Refactor how libraries are checked for `connect()` function in `configure` script and check for `connect()` as it is done for other functions.

* June 19 2009 (Yang Tse)

- Make `sclose()` function-like macro definition used to close a socket, now solely based on `HAVE_CLOSESOCKET` and `HAVE_CLOSESOCKET_CAMEL` config file preprocessor definitions

* June 18 2009 (Yang Tse)

- Add `CloseSocket` camel case function check for `configure` script.

* June 17 2009 (Yang Tse)

- Check for `socket()` and `closesocket()` as it is done for other functions in `configure` script.

* June 11 2009 (Yang Tse)

- Modified `buildconf` so that when `automake` runs it copies missing files instead of symlinking them.

* June 8 2009 (Yang Tse)

- Removed `buildconf.bat` from release and daily snapshot archives. This file is only for CVS tree checkout builds.

* May 26 2009 (Yang Tse)

- Added `--enable-curldebug` configure option to enable and disable building with the low-level curl debug memory tracking 'feature' to allow decoupled setting from `--enable-debug`, allowing again to build c-ares independently out of the CVS tree.

For the c-ares library option `--enable-debug` enables debug build features which are `_not_` related with memory tracking. For the c-ares library when `--enable-debug` is given it does not enable the memory tracking feature. If you wish to enable the curl debug memory tracking you must use configure option `--enable-curldebug` explicitly to do so.

Internally, definition of preprocessor symbol `DEBUGBUILD` restricts code which is only compiled for debug enabled builds. And symbol `CURLDEBUG` is

used to differentiate code which is `_only_` used for memory tracking.

Make `ares_init()`, `ares_dup()` and `ares_init_options()` fail returning `ARES_ENOTINITIALIZED` if library initialization has not been performed calling `ares_library_init()`.

* May 20 2009 (Yang Tse)

- Added `ares_library_init()` and `ares_library_cleanup()` man pages.

* May 19 2009 (Yang Tse)

- Introduced `ares_library_init()` and `ares_library_cleanup()` functions.

This is an API and ABI break for Win32/64 systems. Non-Win32/64 build targets using c-ares 1.7.0 can still survive without calling these functions. Read all the details on `ares_library_init(3)` and `ares_library_cleanup(3)` man pages that are included.

curl/libcurl 7.19.5 is fully compatible with c-ares 1.7.0 on all systems.

In order to use c-ares 1.7.0 with curl/libcurl on Win32/64 systems it is required that curl/libcurl is 7.19.5 or newer. In other words, it is not possible on Win32/64 to use c-ares 1.7.0 with a curl/libcurl version less than 7.19.5

* May 11 2009 (Daniel Stenberg)

- Gregor Jasny made c-ares link with libtool's `-export-symbols-regex` option to only expose functions starting with `ares_`.

* May 7 2009 (Yang Tse)

- Fix an m4 overquoting triggering a spurious `'AS_TR_CPP'` symbol definition attempt in generated `config.h`

* May 2 2009 (Yang Tse)

- Use a build-time configured `ares_socklen_t` data type instead of `socklen_t`.

* April 21 2009 (Yang Tse)

- Moved potential inclusion of system's `malloc.h` and `memory.h` header files to `setup_once.h`. Inclusion of each header file is based on the definition of `NEED_MALLOC_H` and `NEED_MEMORY_H` respectively.

* March 11 2009 (Yang Tse)

- Japheth Cleaver fixed `acountry.c` replacing `u_long` with unsigned long.

* February 20 2009 (Yang Tse)

- Do not halt compilation when using VS2008 to build a Windows 2000 target.

* February 3 2009 (Phil Blundell)

- If the server returns garbage or nothing at all in response to an AAAA query, go on and ask for A records anyway.

* January 31 2009 (Daniel Stenberg)

- `ares_gethostbyname()` now accepts 'AF_UNSPEC' as a family for resolving either AF_INET6 or AF_INET. It works by accepting any of the lookups in the hosts file, and it resolves the AAAA field with a fallback to A.

* January 14

2009 (Daniel Stenberg)

- `ares.h` no longer uses the HAVE_STRUCT_INET6_ADDR define check, but instead it now declares the private struct `ares_in6_addr` for all systems instead of relying on one possibly not present in the system.

* January 13 2009 (Phil Blundell)

- `ares__send_query()` now varies the retry timeout pseudo-randomly to avoid packet storms when several queries were started at the same time.

* January 11 2009 (Daniel Stenberg)

- Phil Blundell added the internal function `ares__expand_name_for_response()` that is now used by the `ares_parse_*_reply()` functions instead of the `ares_expand_name()` simply to easier return `ARES_EBADRESP` for the cases where the name expansion fails as in responses that really isn't expected.

Version 1.6.0 (Dec 9, 2008)

* December 9 2008 (Gisle Vanem)

Fixes for Win32 targets using the Watt-32 tcp/ip stack.

* Dec 4 2008 (Daniel Stenberg)

Gregor Jasny provided the patch that introduces `ares_set_socket_callback()`, and I edited it to also get duped by `ares_dup()`.

* Dec 3 2008 (Daniel Stenberg)

API changes:

I made sure the public `ares_config` struct looks like before and yet it supports the ROTATE option thanks to c-ares now storing the "optmask" internally. Thus we should be ABI compatible with the past release(s) now. My efforts mentioned below should not break backwards ABI compliance.

Here's how I suggest we proceed with the API:

`ares_init()` will be primary "channel creator" function.

ares_init_options() will continue to work exactly like now and before. For starters, it will be the (only) way to set the existing options.

ares_save_options() will continue to work like today, but will ONLY save options that you can set today (including ARES_OPT_ROTATE actually) but new options that we add may not be saved with this.

Instead we introduce:

ares_dup() that instead can make a new channel and clone the config used from an existing channel. It will then clone all config options, including future new things we add.

ares_set_*() style functions that set (new) config options. As a start we simply add these for new functionality, but over time we can also introduce them for existing "struct ares_options" so that we can eventually deprecate the two ares_*_options() functions.

ares_get_*() style functions for extracting info from a channel handle that should be used instead of ares_save_options().

* Nov 26 2008 (Yang Tse)

- Brad Spencer provided changes to allow buildconf to work on OS X.

- Gerald Combs fixed a bug in ares_parse_ptr_reply() which would cause a buffer to shrink instead of expand if a reply contained 8 or more records.

* Nov 25 2008 (Yang Tse)

- In preparation for the upcoming IPv6 nameservers patch, the internal ares_addr union is now changed into an internal struct which also holds the address family.

* Nov 19 2008 (Daniel Stenberg)

- Brad Spencer brought the new function ares_gethostbyname_file() which simply resolves a host name from the given file, using the regular hosts syntax.

* Nov 1 2008 (Daniel Stenberg)

- Carlo Contavalli added support for the glibc "rotate" option, as documented in man resolv.conf:

causes round robin selection of nameservers from among those listed. This has the effect of spreading the query load among all listed servers, rather than having all clients try the first listed server first every time.

You can enable it with ARES_OPT_ROTATE

* Oct 21 2008 (Yang Tse)

Charles Hardin added handling of EINPROGRESS for UDP connects.

* Oct 18 2008 (Daniel Stenberg)

Charles Hardin made adig support a regular numerical dotted IP address for the -s option as well.

* Oct 7 2008 (Yang Tse)

- Added --enable-optimize configure option to enable and disable compiler optimizations to allow decoupled setting from --enable-debug.

* Oct 2 2008 (Yang Tse)

- Added --enable-warnings configure option to enable and disable strict compiler warnings to allow decoupled setting from --enable-debug.

*

Sep 17 2008 (Yang Tse)

- Code reorganization to allow internal/private use of "nameser.h" to any system that lacks arpa/nameser.h or arpa/nameser_compat.h header files.

* Sep 16 2008 (Yang Tse)

- Code reorganization to allow internal/private use of ares_writev to any system that lacks the writev function.

* Sep 15 2008 (Yang Tse)

- Code reorganization to allow internal/private use of ares_strcasecmp to any system that lacks the strcasecmp function.

- Improve configure detection of some string functions.

* Sep 11 2008 (Yang Tse)

- Code reorganization to allow internal/private use of ares_strdup to any system that lacks the strdup function.

Version 1.5.3 (Aug 29, 2008)

* Aug 25 2008 (Yang Tse)

- Improvement by Brad House:

This patch addresses an issue in which a response could be sent back to the source port of a client from a different address than the request was made to. This is one form of a DNS cache poisoning attack.

The patch simply uses recvfrom() rather than recv() and validates that the address returned from recvfrom() matches the address of the server we have connected to. Only necessary on UDP sockets as they are connection-less, TCP is unaffected.

- Fix by George Neill:

Fixed compilation of acountry sample application failure on some systems.

* Aug 4 2008 (Daniel Stenberg)

- Fix by Tofu Linden:

The symptom:

* Users (usually, but not always) on 2-Wire routers and the Comcast service and a wired connection to their router would find that the second and subsequent DNS lookups from fresh processes using c-ares to resolve the same address would cause the process to never see a reply (it keeps polling for around 1m15s before giving up).

The repro:

* On such a machine (and yeah, it took us a lot of QA to find the systems that reproduce such a specific problem!), do 'ahost www.secondlife.com', then do it again. The first process's lookup will work, subsequent lookups will time-out and fail.

The cause:

* init_id_key() was calling randomize_key() **before** it initialized key->state, meaning that the randomness generated by randomize_key() is immediately overwritten with deterministic values. (/dev/urandom was also being read incorrectly in the c-ares version we were using, but this was fixed in a later version.)

* This makes the stream of generated query-IDs from any new c-ares process be an identical and predictable sequence of IDs.

* This makes the 2-Wire's default built-in DNS server detect these queries as probable-duplicates and (erroneously) not respond at all.

* Aug 4 2008 (Yang Tse)

- Autoconf 2.62 has changed the behaviour of the AC_AIX macro which we use. Prior versions of autoconf defined _ALL_SOURCE if _AIX was defined. 2.62 version of AC_AIX defines _ALL_SOURCE and other four preprocessor symbols no matter if the system is AIX or not. To keep the traditional behaviour, and an uniform one across autoconf versions AC_AIX is replaced with our own internal macro CARES_CHECK_AIX_ALL_SOURCE.

* Aug 1 2008 (Yang Tse)

- Configure process now checks if the preprocessor _REENTRANT symbol is already defined. If it isn't currently defined a set of checks are performed to test if its definition is required to make visible to the compiler a set of *_r functions. Finally, if _REENTRANT is already defined or needed it takes care of making adjustments necessary to ensure that it is defined equally for the configure process tests and generated config file.

* Jul 20 2008 (Yang Tse)

- When recvfrom prototype uses a void pointer for arguments 2, 5 or 6 this will now cause the definition, as appropriate, of RECVFROM_TYPE_ARG2_IS_VOID, RECVFROM_TYPE_ARG5_IS_VOID or RECVFROM_TYPE_ARG6_IS_VOID.

* Jul 17 2008 (Yang Tse)

- RECVFROM_TYPE_ARG2, RECVFROM_TYPE_ARG5 and RECVFROM_TYPE_ARG6 are now defined to the data type pointed by its respective argument and not the pointer type.

* Jul 16 2008 (Yang Tse)

- Improved configure detection of number of arguments for getservbyport_r. Detection is now based on compilation checks instead of linker ones.

- Configure process now checks availability of recvfrom() socket function and finds out its return type and the types of its arguments. Added definitions for non-configure systems config files, and introduced macro spreadfrom which will be used on udp sockets as a recvfrom() wrapper in the future.

* Jul 15 2008 (Yang Tse)

- Introduce definition of _REENTRANT symbol in setup.h to improve library usability. Previously the configure process only used the AC_SYS_LARGEFILE macro for debug builds, now it is also used for non-debug ones enabling the use of configure options --enable-largefile and --disable-largefile which might be needed for library compatibility. Remove checking the size of curl_off_t, it is no longer needed.

* Jul 3 2008 (Daniel Stenberg)

- Phil Blundell: If you ask ares_gethostbyname() to do an AF_INET6 lookup and the target host has only A records, it automatically falls back to an AF_INET lookup and gives you the A results. However, if the target host has a CNAME record, this behaviour is defeated since the original query does return some data even though ares_parse_aaa_reply() doesn't consider it relevant. Here's a small patch to make it behave the same with and without the CNAME.

* Jul 2 2008 (Yang Tse)

- Fallback to gettimeofday when monotonic clock is unavailable at run-time.

* Jun 30 2008 (Daniel Stenberg)

- As was pointed out to me by Andreas Schuldei, the MAXHOSTNAMELEN define is not posix or anything and thus c-ares failed to build on hurd (and possibly elsewhere). The define was also somewhat artificially used in the windows port. Now, I instead rewrote the use of gethostbyname to enlarge the host name buffer in case of need and totally avoid the use of the MAXHOSTNAMELEN

define. I thus also removed the defien from the namser.h file where it was once added for the windows build.

I also fixed init_by_defaults() function to not leak memory in case if error.

* Jun 9 2008 (Yang Tse)

- Make libcares.pc generated file for pkg-config include information relative to the libraries needed for the static linking of c-ares.

* May 30 2008 (Yang Tse)

- Brad House fixed a missing header file inclusion in adig sample program.

Version 1.5.2 (May 29, 2008)

* May 13 2008 (Daniel Stenberg)

- Introducing millisecond resolution support for the timeout option. See ares_init_options()'s ARES_OPT_TIMEOUTMS.

* May 9 2008 (Yang Tse)

- Use monotonic time source if available, for private function ares__tvnow()

* May 7 2008 (Daniel Stenberg)

- Sebastian made c-ares able to return all PTR-records when doing reverse lookups. It is not common practice to have multiple PTR-Records for a single IP, but its perfectly legal and some sites have those.

- Doug Goldstein provided a configure patch: updates autoconf 2.13 usage to autoconf 2.57 usage (which is the version you have specified as the minimum version). It's a minor change but it does clean up some warnings with newer autoconf (specifically 2.62).

* May 5 2008 (Yang Tse)

- Improved parsing of resolver configuration files.

* April 4 2008 (Daniel Stenberg)

- Eino Tuominen improved the code when a file is used to seed the randomizer.

- Alexey Simak made adig support NAPTR records

- Alexey Simak fixed the VC dsp file by adding the missing source file ares_expand_string.c

* December 11 2007 (Gisle Vanem)

- Added another sample application; acountry.c which converts an IPv4-address(es) and/or host-name(s) to country-name and country-code. This uses the service of the DNSBL at countries.nerd.dk.

* December 3 2007 (Daniel Stenberg)

- Brad Spencer fixed the configure script to assume that there's no /dev/urandom when built cross-compiled as then the script cannot check for it.

- Erik Kline cleaned up ares_gethostbyaddr.c:next_lookup() somewhat

Version 1.5.1 (Nov 21, 2007)

* November 21 2007 (Daniel Stenberg)

- Robin Cornelius pointed out that ares_llist.h was missing in the release archive for 1.5.0

Version 1.5.0 (Nov 21, 2007)

* October 2 2007 (Daniel Stenberg)

- ares_strerror() segfaulted if the input error number was out of the currently supported range.

- Yang Tse: Avoid a segfault when generating a DNS "Transaction ID" in internal function init_id_key() under low memory conditions.

* September 28 2007 (Daniel Stenberg)

- Bumped version to 1.5.0 for next release and soname bumped to 2 due to ABI and API changes in the progress callback (and possibly more coming up from Steinar)

* September 28 2007 (Steinar H. Gunderson)

- Don't skip a server if it's the only one. (Bugfix from the Google tree.)

- Made the query callbacks receive the number of timeouts that happened during the execution of a query, and updated documentation accordingly. (Patch from

the Google tree.)

- Support a few more socket options: `ARES_OPT_SOCK_SNDBUF` and `ARES_OPT_SOCK_RCVBUF`

- Always register for TCP events even if there are no outstanding queries, as the other side could always close the connection, which is a valid event which should be responded to.

* September 22 2007 (Daniel Stenberg)

- Steinar H. Gunderson fixed: Correctly clear sockets from the `fd_set` on in several functions (`write_tcp_data`, `read_tcp_data`, `read_udp_packets`) so that if it fails and the socket is closed the following code doesn't try to use the file descriptor.

- Steinar H. Gunderson modified c-ares to now also do to DNS retries even when TCP is used since there are several edge cases where it still makes sense.

- Brad House provided a fix for `ares_save_options()`:

Apparently I overlooked something with the `ares_save_options()` where it would try to do a `malloc(0)` when no options of that type needed to be saved. On most platforms, this was fine because `malloc(0)` doesn't actually return `NULL`, but on AIX it does, so `ares_save_options` would return `ARES_ENOMEM`.

* July 14 2007 (Daniel Stenberg)

- Vlad Dinulescu fixed two outstanding valgrind reports:

1. In `ares_query.c`, in `find_query_by_id` we compare `q->qid` (which is a short int variable) with `qid`, which is declared as an int variable. Moreover, `DNS_HEADER_SET_QID` is used to set the value of `qid`, but `DNS_HEADER_SET_QID` sets only the first two bytes of `qid`. I think that `qid` should be declared as "unsigned short" in this function.

2. The same problem occurs in `ares_process.c`, `process_answer()`. `query->qid` (an unsigned short integer variable) is compared with `id`, which is an integer variable. Moreover, `id` is initialized from `DNS_HEADER_QID` which sets only the first two bytes of `id`. I think that the `id` variable should be declared as "unsigned short" in this function.

Even after declaring these variables as "unsigned short", the valgrind errors are still there. Which brings us to the third problem.

3. The third problem is that Valgrind

assumes that query->qid is not initialised correctly. And it does that because query->qid is set from DNS_HEADER_QID(qbuf); Valgrind says that qbuf has uninitialised bytes. And qbuf has uninitialised bytes because of channel->next_id . And next_id is set by ares_init.c:ares__generate_new_id() . I found that putting short r=0 in this function (instead of short r) makes all Valgrind warnings go away. I have studied ares__rc4() too, and this is the offending line:

```
buffer_ptr[counter] ^= state[xorIndex]; (ares_query.c:62)
```

This is what triggers Valgrind.. buffer_ptr is initialised in this function, and by applying ^= on it, it remains initialised.

Version 1.4.0 (June 8, 2007)

* June 4 2007 (Daniel Stenberg)

- James Bursa reported a major memory problem when resolving multi-IP names and I found and fixed the problem. It was added by Ashish Sharma's patch two days ago.

When I then tried to verify multiple entries in /etc/hosts after my fix, I got another segfault and decided this code was not ripe for inclusion and I reverted the patch.

* June 2 2007

- Brad Spencer found and fixed three flaws in the code, found with the new gcc 4.2.0 warning: -Waddress

- Brad House fixed VS2005 compiler warnings due to time_t being 64bit. He also made recent Microsoft compilers use _strdup() instead of strdup().

- Brad House's man pages for ares_save_options() and ares_destroy_options() were added.

- Ashish Sharma provided a patch for supporting multiple entries in the /etc/hosts file. Patch edited for coding style and functionality by me (Daniel).

* May 30 2007

- Shmulik Regev brought cryptographically secure transaction IDs:

The c-ares library implementation uses a DNS "Transaction ID" field that is seeded with a pseudo random number (based on gettimeofday) which is incremented (++) between consecutive calls and is therefore rather

predictable. In general, predictability of DNS Transaction ID is a well known security problem (e.g. http://bak.spc.org/dms/archive/dns_id_attack.txt) and makes a c-ares based implementation vulnerable to DNS poisoning. Credit goes to Amit Klein (Trusteer) for identifying this problem.

The patch I wrote changes the implementation to use a more secure way of generating unique IDs. It starts by obtaining a key with reasonable entropy which is used with an RC4 stream to generate the cryptographically secure transaction IDs.

Note that the key generation code (in `ares_init:randomize_key`) has two versions, the Windows specific one uses a cryptographically safe function provided (but undocumented :) by the operating system (described at http://blogs.msdn.com/michael_howard/archive/2005/01/14/353379.aspx). The default implementation is a bit naive and uses the standard 'rand' function. Surely a better way to generate random keys exists for other platforms.

The patch can be tested by using the `adig` utility and using the '-s' option.

- Brad House

added `ares_save_options()` and `ares_destroy_options()` that can be used to keep options for later re-usal when `ares_init_options()` is used.

Problem: Calling `ares_init()` for each lookup can be unnecessarily resource intensive. On windows, it must `LoadLibrary()` or search the registry on each call to `ares_init()`. On unix, it must read and parse multiple files to obtain the necessary configuration information. In a single-threaded environment, it would make sense to only `ares_init()` once, but in a heavily multi-threaded environment, it is undesirable to `ares_init()` and `ares_destroy()` for each thread created and track that.

Solution: Create `ares_save_options()` and `ares_destroy_options()` functions to retrieve and free options obtained from an initialized channel. The options populated can be used to pass back into `ares_init_options()`, it should populate all needed fields and not retrieve any information

from the system. Probably wise to destroy the cache every minute or so to prevent the data from becoming stale.

- Daniel S added `ares_process_fd()` to allow applications to ask for processing on specific sockets and thus avoiding `select()` and associated functions/macros. This function will be used by upcoming libcurl releases for this very reason. It also made me export the `ares_socket_t` type in the public `ares.h` header file, since `ares_process_fd()` uses that type for two of

the arguments.

* May 25 2007

- Ravi Pratap fixed a flaw in the `init_by_resolv_conf()` function for windows that could cause it to return a bad return code.

* April 16 2007

- Yang Tse: Provide `ares_getopt()` command-line parser function as a source code helper function, not belonging to the actual c-ares library.

* February 19 2007

- Vlad Dinulescu added `ares_parse_ns_reply()`.

* February 13 2007

- Yang Tse: Fix failure to get the search sequence of `/etc/hosts` and DNS from `/etc/nsswitch.conf`, `/etc/host.conf` or `/etc/svc.conf` when `/etc/resolv.conf` did not exist or was unable to read it.

* November 22 2006

- Install `ares_dns.h` too

- Michael Wallner fixed this problem: When I set domains in the options struct, and there are domain/search entries in `/etc/resolv.conf`, the domains of the options struct will be overridden.

* November 6 2006

- Yang Tse removed a couple of potential zero size memory allocations.

- Andreas Rieke fixed the line endings in the `areslib.dsp` file that I (Daniel) broke in the 1.3.2 release. We should switch to a system where that file is auto-generated. We could rip some code for that from curl...

Version 1.3.2 (November 3, 2006)

* October 12 2006

- Prevent `ares_getsock()` to overflow if more than 16 sockets are used.

* September 11 2006

- Guilherme Balena Versiani: I noted a strange BUG in Win32 port (`ares_init.c/get_iphlpapi_dns_info()` function): when I disable the network

by hand or disconnect the network cable in Windows 2000 or Windows XP, my application gets 127.0.0.1 as the only name server. The problem comes from 'GetNetworkParams' function, that returns the empty string "" as the only name server in that case. Moreover, the Windows implementation of inet_addr() returns INADDR_LOOPBACK instead of INADDR_NONE.

* August 29 2006

- Brad Spencer did

- o made ares_version.h use extern "C" for c++ compilers
- o fixed compiler warnings in ares_getnameinfo.c
- o fixed a buffer position init for TCP reads

* August 3 2006

- Ravi Pratap fixed ares_getsock() to actually return the proper bitmap and not always zero!

Version 1.3.1 (June 24, 2006)

* July 23, 2006

- Gisle Vanem added getopt() to the ahost program. Currently accepts only [-t {a|aaaa}] to specify address family in ares_gethostbyname().

* June 19, 2006

- (wahern) Removed "big endian" DNS section and RR data integer parser macros from ares_dns.h, which break c-ares on my Sparc64. Bit-wise operations in C operate on logical values. And in any event the octets are already in big-endian (aka network) byte order so they're being reversed (thus the source of the breakage).

* June 18, 2006

- William Ahern handles EAGAIN/EWOULDBLOCK errors in most of the I/O calls from area_process.c.

TODO: Handle one last EAGAIN for a UDP socket send(2) in ares__send_query().

* May 10, 2006

- Bram Matthys brought my attention to a libtool peculiarity where detecting things such as C++ compiler actually is a bad thing and since we don't need

that detection I added a work-around, much inspired by a previous patch by Paolo Bonzini. This also shortens the configure script quite a lot.

* May 3, 2006

- Nick Mathewson added the `ARES_OPT_SOCKET_STATE_CB` option that when set makes c-ares call a callback on socket state changes. A better way than the `ares_getsock()` to get full control over the socket state.

* January 9, 2006

- Alexander Lazic improved the `getservbyport_r()` configure check.

*

January 6, 2006

- Alexander Lazic pointed out that the `buildconf` should use the `ACLOCAL_FLAGS` variable for easier controlling what it does and how it runs.

* January 5, 2006

- James Bursa fixed c-ares to find the hosts file on RISC OS, and made it build with newer gcc versions that no longer defines "riscos".

* December 22

- Daniel Stenberg added `ares_getsock()` that extracts the set of sockets to wait for action on. Similar to `ares_fds()` but not restricted to using `select()` for the waiting.

* November 25

- Yang Tse fixed some `send()` / `recv()` compiler warnings

* September 18

- Added constants that will be used by `ares_getaddrinfo`

- Made `ares_getnameinfo` use the reentrant `getservbyport` (`getservbyport_r`) if it is available to ensure it works properly in a threaded environment.

* September 10

- configure fix for detecting a member in the `sockaddr_in6` struct which failed on ipv6-enabled HP-UX 11.00

Version 1.3.0 (August 29, 2005)

* August 21

- Alfredo Tupone provided a fix for the Windows code in `get_iphlpapi_dns_info()` when getting the DNS server etc.

* June 19

- Added some checks for the `addrinfo` structure.

* June 2

- William Ahern:

Make UDP sockets non-blocking. I've confirmed that at least on Linux 2.4 a read event can come back from `poll()` on a valid `SOCK_DGRAM` socket but `recv(2)` will still block. This patch doesn't ignore `EAGAIN` in `read_udp_packets()`, though maybe it should. (This patch was edited by Daniel Stenberg and a new configure test was added (imported from curl's configure) to properly detect what non-blocking socket approach to use.)

I'm not quite sure how this was happening, but I've been seeing PTR queries which seem to return empty responses. At least, they were empty when calling `ares_expand_name()` on the record. Here's a patch which guarantees to NUL-terminate the expanded name. The old behavior failed to NUL-terminate if `len` was 0, and this was causing `strlen()` to run past the end of the buffer after calling `ares_expand_name()` and getting `ARES_SUCCESS` as the return value. If `q` is not greater than `*s` then it's equal and `*s` is always allocated with at least one byte.

* May 16

- Added `ares_getnameinfo` which mimics the `getnameinfo` API (another feature that could use testing).

* May 14

- Added an `inet_ntop` function from BIND for systems that do not have it.

* April 9

- Made sortlist support IPv6 (this can probably use some testing).
- Made sortlist support CIDR matching for IPv4.

* April 8

- Added preliminary IPv6 support to `ares_gethostbyname`. Currently, sortlist

does not work with IPv6. Also provided an implementation of bitncmp from BIND for systems that do not supply this function. This will be used to add IPv6 support to sortlist.

- Made ares_gethostbyaddr support IPv6 by specifying AF_INET6 as the family. The function can lookup IPv6 addresses both from files (/etc/hosts) and DNS lookups.

* April 7

- Tupone Alfredo fixed includes of arpa/nameser_compat.h to build fine on Mac OS X.

* April 5

- Dominick Meglio: Provided implementations of inet_net_pton and inet_pton from BIND for systems that do not include these functions.

* March 11, 2005

- Dominick Meglio added ares_parse_aaaa_reply.c and did various adjustments. The first little steps towards IPv6 support!

* November 7

- Fixed the VC project and makefile to use ares_cancel and ares_version

* October 24

- The released ares_version.h from 1.2.1 says 1.2.0 due to a maketgz flaw. This is now fixed.

Version 1.2.1 (October 20, 2004)

* September 29

- Henrik Stoerner fix: got a report that Tru64 Unix (the unix from Digital when they made Alpha's) uses /etc/svc.conf for the purpose fixed below for other OSes. He made c-ares check for and understand it if present.

- Now c-ares will use local host name lookup _before_ DNS resolving by default if nothing else is told.

* September 26

- Henrik Stoerner: found out that c-ares does not look at the /etc/host.conf

file to determine the sequence in which to search /etc/hosts and DNS. So on systems where this order is defined by /etc/host.conf instead of a "lookup" entry in /etc/resolv.conf, c-ares will always default to looking in DNS first, and /etc/hosts second.

c-ares now looks at

- 1) resolv.conf (for the "lookup" line);
- 2) nsswitch.conf (for the "hosts:" line);
- 3) host.conf (for the "order" line).

First match wins.

- Dominick Meglio patched: C-ares on Windows assumed that the HOSTS file is located in a static location. It assumed C:\Windows\System32\Drivers\Etc. This is a poor assumption to make. In fact, the location of the HOSTS file can be changed via a registry setting.

There is a key called DatabasePath which specifies the path to the HOSTS file:

<http://www.microsoft.com/technet/itsolutions/network/deploy/deploy/tcpip2k.mspx>

The patch will make c-ares correctly consult the registry for the location of this file.

* August 29

- Gisle Vanem fixed the MSVC build files.

* August 20

- Gisle Vanem made c-ares build and work with his Watt-32 TCP/IP stack.

* August 13

- Harshal Pradhan made a minor syntax change in ares_init.c to make it build fine with MSVC 7.1

* July 24

- Made the lib get built static only if --enable-debug is used.

- Gisle Vanem fixed:

Basically in loops like handle_errors(), 'query->next' was assigned a local variable and then query was referenced after the memory was freed by next_server(). I've changed that so next_server() and end_query() returns

the next query. So callers should use this ret-value.

The next problem was that 'server->tcp_buffer_pos' had a random value at entry to 1st recv() (luckily causing Winsock to return ENOBUFS).

I've also added a ares_writev() for Windows to streamline the code a bit more.

* July 20

- Fixed a few variable return types for some system calls. Made configure check for ssize_t to make it possible to use that when receiving the send() error code. This is necessary to prevent compiler warnings on some systems.
- Made configure create config.h, and all source files now include setup.h that might include the proper config.h (or a handcrafted alternative).
- Switched to 'ares_socket_t' type for sockets in ares, since Windows don't use 'int' for that.
- automake-ified and libtool-ified c-ares. Now it builds libcares as a shared lib on most platforms if wanted. (This bloated the size of the release archive with another 200K!)
- Makefile.am now uses Makefile.inc for the c sources, h headers and man pages, to make it easier for other makefiles to use the exact same set of files.
- Adjusted 'maketgz' to use the new automake magic when building distribution archives.
- Anyone desires HTML and/or PDF versions of the man pages in the release archives?

* July 3

- Gnter Knauf made c-ares build and run on Novell Netware.

* July 1

- Gisle Vanem provided Makefile.dj to build with djgpp, added a few more djgpp fixes and made ares not use 'errno' to provide further info on Windows.

* June 30

- Gisle Vanem made it build with djgpp and run fine with the Watt-32 stack.

* June 10

- Gisle Vanem's init patch for Windows:

The `init_by_resolv_conf()` function fetches the DNS-server(s) from a series of registry branches.

This can be wrong in the case where DHCP has assigned nameservers, but the user has overridden these servers with other preferred settings. Then it's wrong to use the `DHCPNAMESERVER` setting in registry.

In the case of no global DHCP-assigned or fixed servers, but DNS server(s) per adapter, one has to query the adapter branches. But how can c-ares know which adapter is valid for use? AFAICS it can't. There could be one adapter that is down (e.g. a VPN adapter).

So it's better to leave this to the IP Helper API (`iphlpapi`) available in Win-98/2000 and later. My patch falls-back to the old way if not available.

* June 8

- James Bursa fixed an init issue for RISC OS.

*

May 11

- Nico Stappenbelt reported that when processing domain and search lines in the `resolv.conf` file, the first entry encountered is processed and used as the search list. According to the manual pages for both Linux, Solaris and Tru64, the last entry of either a domain or a search field is used.

This is now adjusted in the code

Version 1.2.0 (April 13, 2004)

* April 2, 2004

- Updated various man pages to look nicer when converted to HTML on the web site.

* April 1, 2004

- Dirk Manske provided a new function that is now named `ares_cancel()`. It is used to cancel/cleanup a resolve/request made using `ares` functions on the given `ares` channel. It does not destroy/kill the `ares` channel itself.

- Dominick Meglio cleaned up the formatting in several man pages.

* March 30, 2004

- Dominick Meglio's new `ares_expand_string`. A helper function when decoding incoming DNS packages.

- Daniel Stenberg modified the `Makefile.in` to use a for loop for the man page installation to improve overview and make it easier to add man pages.

Version 1.1.0 (March 11, 2004)

* March 9, 2004

- Gisle Vanem improved build on Windows.

* February 25, 2004

- Dan Fandrich found a flaw in the Feb 22 fix.

- Added better configure --enable-debug logic (taken from the curl configure script). Added acinclude.m4 to the tarball.

* February 23, 2004

- Removed ares_free_errmem(), the function, the file and the man page. It was not used and it did nothing.

- Fixed a lot of code that wasn't "64bit clean" and thus caused a lot of compiler warnings on picky compilers.

* February 22, 2004

- Dominick Meglio made ares init support multiple name servers in the NameServer key on Windows.

* February 16, 2004

- Modified ares_private.h to include libcurl's memory debug header if CURLDEBUG is set. This makes all the ares-functions supervised properly by the curl test suite. This also forced me to add inclusion of the ares_private.h header in a few more files that are using some kind of memory-related resources.

- Made the makefile only build ahost and adig if 'make demos' is used.

* February 10, 2004

- Dirk Manske made ares_version.h installed with 'make install'

* February 4, 2004

- ares_free_errmem() is subject for removal, it is simply present for future purposes, and since we removed the extra parameter in strerror() it won't be used by c-ares!

- configure --enable-debug now enables picky compiler options if gcc is used

- fixed several compiler warnings --enable-debug showed and Joerg Mueller-Tolk reported

Version 1.0.0 (February 3, 2004)

* February 3, 2004

- now we produce the libcares.a library instead of the previous libares.a since we are no longer compatible

* February 2, 2004

- ares_strerror() has one argument less. This is the first official modification of the existing provided ares API.

* January 29, 2004

- Dirk Manske fixed how the socket is set non-blocking.

* January 4, 2004

- Dominick Meglio made the private gettimeofday() become ares_gettimeofday() instead in order to not pollute the name space and risk colliding with other libraries' versions of this function.

* October 24, 2003. Daniel Stenberg

Added ares_version().

Version 1.0-pre1 (8 October 2003)

- James Bursa made it run on RISC OS

- Dominick Meglio made it run fine on NT4

- Duncan Wilcox made it work fine on Mac OS X

- Daniel Stenberg adjusted the windows port

- liren at vivisimo.com made the initial windows port

* Imported the sources from ares 1.1.1

Found in path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/CHANGES

No license file was found, but licenses were detected in source scan.

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* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_rules.h
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_build.h.in

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#

File version for 'aclocal' use. Keep it a single number.

serial 8

```

dnl CARES_CHECK_OPTION_CURLDEBUG
dnl
-----

dnl Verify if configure has been invoked with option
dnl --enable-curldebug or --disable-curldebug, and set
dnl shell variable want_curldebug value as appropriate.

AC_DEFUN([CARES_CHECK_OPTION_CURLDEBUG], [
  AC_BEFORE([$0],[CARES_CHECK_CURLDEBUG])dnl
  AC_MSG_CHECKING([whether to enable curl debug memory tracking])
  OPT_CURLDEBUG_BUILD="default"
  AC_ARG_ENABLE(curldebug,
  AC_HELP_STRING([--enable-curldebug],[Enable curl debug memory tracking])
  AC_HELP_STRING([--disable-curldebug],[Disable curl debug memory tracking]),
  OPT_CURLDEBUG_BUILD=$enableval)
  case "$OPT_CURLDEBUG_BUILD" in
    no)
      dnl --disable-curldebug option used
      want_curldebug="no"
      ;;
    default)
      dnl configure option not specified
      want_curldebug="no"
      ;;
    *)
      dnl --enable-curldebug option used.
      dnl The use of this option value is a request to enable curl's
      dnl debug memory tracking for the c-ares
library. This is a big
      dnl hack that can only be done when a whole bunch of requisites
      dnl are simultaneously satisfied. Later on, these requisites are
      dnl verified and if they are not fully satisfied the option will
      dnl be ignored and act as if --disable-curldebug had been given
      dnl setting shell variable want_curldebug to 'no'.
      want_curldebug="yes"
      ;;
  esac
  AC_MSG_RESULT([$want_curldebug])
])

```

```

dnl CARES_CHECK_OPTION_DEBUG
dnl -----

dnl Verify if configure has been invoked with option
dnl --enable-debug or --disable-debug, and set shell
dnl variable want_debug value as appropriate.

```

```

AC_DEFUN([CARES_CHECK_OPTION_DEBUG], [
  AC_BEFORE([$0],[CARES_CHECK_OPTION_WARNINGS])dnl
  AC_BEFORE([$0],[CARES_CHECK_OPTION_CURLDEBUG])dnl
  AC_BEFORE([$0],[CARES_CHECK_PROG_CC])dnl
  AC_MSG_CHECKING([whether to enable debug build options])
  OPT_DEBUG_BUILD="default"
  AC_ARG_ENABLE(debug,
  AC_HELP_STRING([--enable-debug],[Enable
  debug build options])
  AC_HELP_STRING([--disable-debug],[Disable debug build options]),
  OPT_DEBUG_BUILD=$enableval)
  case "$OPT_DEBUG_BUILD" in
    no)
      dnl --disable-debug option used
      want_debug="no"
      ;;
    default)
      dnl configure option not specified
      want_debug="no"
      ;;
    *)
      dnl --enable-debug option used
      want_debug="yes"
      ;;
  esac
  AC_MSG_RESULT([$want_debug])
])

```

```

dnl CARES_CHECK_OPTION_NONBLOCKING
dnl -----
dnl Verify if configure has been invoked with option
dnl --enable-nonblocking or --disable-nonblocking, and
dnl set shell variable want_nonblocking as appropriate.

```

```

AC_DEFUN([CARES_CHECK_OPTION_NONBLOCKING], [
  AC_BEFORE([$0],[CARES_CHECK_NONBLOCKING_SOCKET])dnl
  AC_MSG_CHECKING([whether to enable non-blocking communications])
  OPT_NONBLOCKING="default"
  AC_ARG_ENABLE(nonblocking,
  AC_HELP_STRING([--enable-nonblocking],[Enable non-blocking communications])
  AC_HELP_STRING([--disable-nonblocking],[Disable
  non-blocking communications]),
  OPT_NONBLOCKING=$enableval)
  case "$OPT_NONBLOCKING" in
    no)
      dnl --disable-nonblocking option used

```

```

    want_nonblocking="no"
    ;;
default)
    dnl configure option not specified
    want_nonblocking="yes"
    ;;
*)
    dnl --enable-nonblocking option used
    want_nonblocking="yes"
    ;;
esac
AC_MSG_RESULT([$want_nonblocking])
])

```

```

dnl CARES_CHECK_OPTION_OPTIMIZE
dnl -----
dnl Verify if configure has been invoked with option
dnl --enable-optimize or --disable-optimize, and set
dnl shell variable want_optimize value as appropriate.

```

```

AC_DEFUN([CARES_CHECK_OPTION_OPTIMIZE], [
    AC_REQUIRE([CARES_CHECK_OPTION_DEBUG])dnl
    AC_BEFORE([$0],[CARES_CHECK_PROG_CC])dnl
    AC_MSG_CHECKING([whether to enable compiler optimizer])
    OPT_COMPILER_OPTIMIZE="default"
    AC_ARG_ENABLE(optimize,
    AC_HELP_STRING([--enable-optimize(=OPT)],[Enable compiler
    optimizations (default=-O2)])
    AC_HELP_STRING([--disable-optimize],[Disable compiler optimizations]),
    OPT_COMPILER_OPTIMIZE=$enableval)
    case "$OPT_COMPILER_OPTIMIZE" in
        no)
            dnl --disable-optimize option used. We will handle this as
            dnl a request to disable compiler optimizations if possible.
            dnl If the compiler is known CFLAGS and CPPFLAGS will be
            dnl overridden, otherwise this can not be honored.
            want_optimize="no"
            AC_MSG_RESULT([no])
            ;;
        default)
            dnl configure's optimize option not specified. Initially we will
            dnl handle this as a request contrary to configure's setting
            dnl for --enable-debug. IOW, initially, for debug-enabled builds
            dnl this will be handled as a request to disable optimizations if
            dnl possible, and for debug-disabled builds this will be handled
            dnl initially as a request to enable optimizations if possible.
            dnl Finally, if the compiler is known and CFLAGS and CPPFLAGS

```

```

do
    dnl not have any optimizer flag the request will be honored, in
    dnl any other case the request can not be honored.
    dnl IOW, existing optimizer flags defined in CFLAGS or CPPFLAGS
    dnl will always take precedence over any initial assumption.
    if test "$want_debug" = "yes"; then
        want_optimize="assume_no"
        AC_MSG_RESULT([not specified (assuming no)])
    else
        want_optimize="assume_yes"
        AC_MSG_RESULT([not specified (assuming yes)])
    fi
    ;;
*)
    dnl --enable-optimize option used. We will handle this as
    dnl a request to enable compiler optimizations if possible.
    dnl If the compiler is known CFLAGS and CPPFLAGS will be
    dnl overridden, otherwise this can not be honored.
    want_optimize="yes"
    AC_MSG_RESULT([yes])
    ;;
esac
])

dnl CARES_CHECK_OPTION_SYMBOL_HIDING
dnl -----
dnl Verify if configure has been invoked with option
dnl --enable-symbol-hiding
dnl or --disable-symbol-hiding,
dnl setting shell variable want_symbol_hiding value.

AC_DEFUN([CARES_CHECK_OPTION_SYMBOL_HIDING], [
    AC_BEFORE([$0],[CARES_CHECK_COMPILER_SYMBOL_HIDING])dnl
    AC_MSG_CHECKING([whether to enable hiding of library internal symbols])
    OPT_SYMBOL_HIDING="default"
    AC_ARG_ENABLE(symbol-hiding,
    AC_HELP_STRING([--enable-symbol-hiding],[Enable hiding of library internal symbols])
    AC_HELP_STRING([--disable-symbol-hiding],[Disable hiding of library internal symbols]),
    OPT_SYMBOL_HIDING=$enableval)
    case "$OPT_SYMBOL_HIDING" in
        no)
            dnl --disable-symbol-hiding option used.
            dnl This is an indication to not attempt hiding of library internal
            dnl symbols. Default symbol visibility will be used, which normally
            dnl exposes all library internal symbols.
            want_symbol_hiding="no"
            AC_MSG_RESULT([no])

```

```

;;
default)
    dnl configure's symbol-hiding option not specified.
    dnl Handle this as if --enable-symbol-hiding
option was given.
    want_symbol_hiding="yes"
    AC_MSG_RESULT([yes])
;;
*)
    dnl --enable-symbol-hiding option used.
    dnl This is an indication to attempt hiding of library internal
    dnl symbols. This is only supported on some compilers/linkers.
    want_symbol_hiding="yes"
    AC_MSG_RESULT([yes])
;;
esac
])

dnl CARES_CHECK_OPTION_WARNINGS
dnl -----
dnl Verify if configure has been invoked with option
dnl --enable-warnings or --disable-warnings, and set
dnl shell variable want_warnings as appropriate.

AC_DEFUN([CARES_CHECK_OPTION_WARNINGS], [
    AC_REQUIRE([CARES_CHECK_OPTION_DEBUG])dnl
    AC_BEFORE([$0],[CARES_CHECK_PROG_CC])dnl
    AC_MSG_CHECKING([whether to enable strict compiler warnings])
    OPT_COMPILER_WARNINGS="default"
    AC_ARG_ENABLE(warnings,
    AC_HELP_STRING([--enable-warnings],[Enable strict compiler warnings])
    AC_HELP_STRING([--disable-warnings],[Disable strict compiler warnings]),
    OPT_COMPILER_WARNINGS=$enableval)
    case "$OPT_COMPILER_WARNINGS" in
        no)
            dnl --disable-warnings option used
            want_warnings="no"
            ;;
        default)
            dnl configure option not specified, so
            dnl use same setting as --enable-debug
            want_warnings="$want_debug"
            ;;
        *)
            dnl --enable-warnings option used
            want_warnings="yes"
            ;;
    esac
])

```



```

esac
AC_MSG_RESULT([$want_warnings])
])

dnl CARES_CHECK_NONBLOCKING_SOCKET
dnl -----
dnl Check for how to set a socket into non-blocking state.

AC_DEFUN([CARES_CHECK_NONBLOCKING_SOCKET], [
  AC_REQUIRE([CARES_CHECK_OPTION_NONBLOCKING])dnl
  AC_REQUIRE([CARES_CHECK_FUNC_FCNTL])dnl
  AC_REQUIRE([CARES_CHECK_FUNC_IOCTL])dnl
  AC_REQUIRE([CARES_CHECK_FUNC_IOCTL_SOCKET])dnl
  AC_REQUIRE([CARES_CHECK_FUNC_IOCTL_SOCKET_CAMEL])dnl
  AC_REQUIRE([CARES_CHECK_FUNC_SETSOCKOPT])dnl
  #
  tst_method="unknown"
  if test "$want_nonblocking" = "yes"; then
    AC_MSG_CHECKING([how
to set a socket into non-blocking mode])
    if test "x$ac_cv_func_fcntl_o_nonblock" = "xyes"; then
      tst_method="fcntl O_NONBLOCK"
    elif test "x$ac_cv_func_ioctl_fionbio" = "xyes"; then
      tst_method="ioctl FIONBIO"
    elif test "x$ac_cv_func_ioctlsocket_fionbio" = "xyes"; then
      tst_method="ioctlsocket FIONBIO"
    elif test "x$ac_cv_func_ioctlsocket_camel_fionbio" = "xyes"; then
      tst_method="IoctlSocket FIONBIO"
    elif test "x$ac_cv_func_setsockopt_so_nonblock" = "xyes"; then
      tst_method="setsockopt SO_NONBLOCK"
    fi
    AC_MSG_RESULT([$tst_method])
    if test "$tst_method" = "unknown"; then
      AC_MSG_WARN([cannot determine non-blocking socket method.])
    fi
  fi
  if test "$tst_method" = "unknown"; then
    AC_DEFINE_UNQUOTED(USE_BLOCKING_SOCKETS, 1,
      [Define to disable non-blocking sockets.])
    AC_MSG_WARN([non-blocking sockets disabled.])
  fi
])

dnl CARES_CONFIGURE_SYMBOL_HIDING
dnl -----
dnl

```

Depending on --enable-symbol-hiding or --disable-symbol-hiding
dnl configure option, and compiler capability to actually honor such
dnl option, this will modify compiler flags as appropriate and also
dnl provide needed definitions for configuration file.
dnl This macro should not be used until all compilation tests have
dnl been done to prevent interferences on other tests.

```
AC_DEFUN([CARES_CONFIGURE_SYMBOL_HIDING], [  
  AC_MSG_CHECKING([whether hiding of library internal symbols will actually happen])  
  if test x"$ac_cv_native_windows" != "xyes" &&  
    test "$want_symbol_hiding" = "yes" &&  
    test "$supports_symbol_hiding" = "yes"; then  
    CFLAGS="$CFLAGS $symbol_hiding_CFLAGS"  
    AC_DEFINE_UNQUOTED(CARES_SYMBOL_HIDING, 1,  
      [Define to 1 to enable hiding of library internal symbols.])  
    AC_DEFINE_UNQUOTED(CARES_SYMBOL_SCOPE_EXTERN, $symbol_hiding_EXTERN,  
      [Definition to make a library symbol externally visible.])  
    AC_MSG_RESULT([yes])  
  else  
    AC_MSG_RESULT([no])  
  fi  
])
```

Found in path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/m4/cares-confopts.m4

No license file was found, but licenses were detected in source scan.

/* Copyright 1998 by the Massachusetts Institute of Technology.

*

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*/

Found in path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ahost.c

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/adig.c

No license file was found, but licenses were detected in source scan.

```

/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
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* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

```

Found in path(s):

```

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/bitncmp.c
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/inet_net_pton.c

```

No license file was found, but licenses were detected in source scan.

```

*****
# $Id$
#
# Copyright (C) 2008 - 2009 by Daniel Stenberg et al
#
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# written prior permission. M.I.T. makes no representations about the
# suitability of this software for any purpose. It is provided "as is"
# without express or implied warranty.
#
*****

# File version for 'aclocal' use. Keep it a single number.
# serial 6

```

dnl Note 1

dnl -----

dnl

None of the CARES_CHECK_NEED_REENTRANT_* macros shall use HAVE_FOO_H to
dnl conditionally include header files. These macros are used early in the
dnl configure process much before header file availability is known.

```

dnl CARES_CHECK_NEED_REENTRANT_ERRNO
dnl -----
dnl Checks if the preprocessor _REENTRANT definition
dnl makes errno available as a preprocessor macro.

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_ERRNO], [
  AC_COMPILE_IFELSE([
    AC_LANG_PROGRAM([
#include <errno.h>
    ],[
      if(0 != errno)
        return 1;
    ])
  ],[
    tmp_errno="yes"
  ],[
    tmp_errno="no"
  ])
  if test "$tmp_errno" = "yes"; then
    AC_COMPILE_IFELSE([
      AC_LANG_PROGRAM([
#include <errno.h>
      ],[
#ifdef errno
        int dummy=1;
      #else
        force compilation error
      #endif
      ])
    ],[
      tmp_errno="errno_macro_defined"
    ],[
      AC_COMPILE_IFELSE([
        AC_LANG_PROGRAM([
#define _REENTRANT
#include <errno.h>

        ],[
#ifdef errno
          int dummy=1;
        #else
          force compilation error
        #endif
        ])
      ],[
        tmp_errno="errno_macro_needs_reentrant"
      ])
    ])
  ]
])

```

```

    tmp_need_reentrant="yes"
  })
}
fi
})

```

```

dnl CARES_CHECK_NEED_REENTRANT_GMTIME_R
dnl -----
dnl Checks if the preprocessor _REENTRANT definition
dnl makes function gmtime_r compiler visible.

```

```

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_GMTIME_R], [
  AC_LINK_IFELSE([
    AC_LANG_FUNC_LINK_TRY([gmtime_r])
  ],[
    tmp_gmtime_r="yes"
  ],[
    tmp_gmtime_r="no"
  ])
  if test "$tmp_gmtime_r" = "yes"; then
    AC_EGREP_CPP([gmtime_r],[
#include <sys/types.h>
#include <time.h>
    ],[
      tmp_gmtime_r="proto_declared"
    ],[
      AC_EGREP_CPP([gmtime_r],[
#define _REENTRANT
#include <sys/types.h>
#include <time.h>
    ],[
      tmp_gmtime_r="proto_needs_reentrant"
      tmp_need_reentrant="yes"
    ])
  ])
fi
])

```

```

dnl CARES_CHECK_NEED_REENTRANT_LOCALTIME_R
dnl

```

```

-----
dnl Checks if the preprocessor _REENTRANT definition
dnl makes function localtime_r compiler visible.

```

```

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_LOCALTIME_R], [
  AC_LINK_IFELSE([

```

```

    AC_LANG_FUNC_LINK_TRY([localtime_r])
  ],[
    tmp_localtime_r="yes"
  ],[
    tmp_localtime_r="no"
  ])
if test "$tmp_localtime_r" = "yes"; then
  AC_EGREP_CPP([localtime_r],[
#include <sys/types.h>
#include <time.h>
    ],[
      tmp_localtime_r="proto_declared"
    ],[
      AC_EGREP_CPP([localtime_r],[
#define _REENTRANT
#include <sys/types.h>
#include <time.h>
        ],[
          tmp_localtime_r="proto_needs_reentrant"
          tmp_need_reentrant="yes"
        ])
      ])
fi
])

```

```

dnl CARES_CHECK_NEED_REENTRANT_STRERROR_R
dnl -----
dnl Checks if the preprocessor _REENTRANT definition
dnl makes function strerror_r compiler visible.

```

```

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_STRERROR_R], [
  AC_LINK_IFELSE([
    AC_LANG_FUNC_LINK_TRY([strerror_r])
  ],[
    tmp_strerror_r="yes"
  ],[
    tmp_strerror_r="no"
  ])
if test "$tmp_strerror_r" = "yes"; then
  AC_EGREP_CPP([strerror_r],[
#include <sys/types.h>
#include <string.h>
    ],[
      tmp_strerror_r="proto_declared"
    ],[
      AC_EGREP_CPP([strerror_r],[
#define _REENTRANT

```

```

#include <sys/types.h>
#include <string.h>
    ],[
        tmp_strerror_r="proto_needs_reentrant"
        tmp_need_reentrant="yes"
    ])
])
fi
])

dnl CARES_CHECK_NEED_REENTRANT_STRTOK_R
dnl -----
dnl Checks if the preprocessor _REENTRANT definition
dnl makes function strtok_r compiler visible.

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_STRTOK_R], [
AC_LINK_IFELSE([
    AC_LANG_FUNC_LINK_TRY([strtok_r])
], [
    tmp_strtok_r="yes"
], [
    tmp_strtok_r="no"
])
if test "$tmp_strtok_r" = "yes"; then
    AC_EGREP_CPP([strtok_r],[
#include <sys/types.h>
#include <string.h>
        ],[
            tmp_strtok_r="proto_declared"

        ],[
            AC_EGREP_CPP([strtok_r],[
#define _REENTRANT
#include <sys/types.h>
#include <string.h>
                ],[
                    tmp_strtok_r="proto_needs_reentrant"
                    tmp_need_reentrant="yes"
                ])
            ])
        fi
    ])

```

```

dnl CARES_CHECK_NEED_REENTRANT_INET_NTOA_R
dnl -----
dnl Checks if the preprocessor _REENTRANT definition

```

dnl makes function inet_ntoa_r compiler visible.

```
AC_DEFUN([CARES_CHECK_NEED_REENTRANT_INET_NTOA_R], [
  AC_LINK_IFELSE([
    AC_LANG_FUNC_LINK_TRY([inet_ntoa_r])
  ],[
    tmp_inet_ntoa_r="yes"
  ],[
    tmp_inet_ntoa_r="no"
  ])
  if test "$tmp_inet_ntoa_r" = "yes"; then
    AC_EGREP_CPP([inet_ntoa_r],[
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <arpa/inet.h>
    ],[
      tmp_inet_ntoa_r="proto_declared"
    ],[
      AC_EGREP_CPP([inet_ntoa_r],[
#define _REENTRANT
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <arpa/inet.h>
      ],[
        tmp_inet_ntoa_r="proto_needs_reentrant"
        tmp_need_reentrant="yes"
      ])
    ])
  fi
])
```

dnl CARES_CHECK_NEED_REENTRANT_GETHOSTBYADDR_R

dnl -----

dnl Checks if the preprocessor _REENTRANT definition

dnl makes function gethostbyaddr_r compiler visible.

```
AC_DEFUN([CARES_CHECK_NEED_REENTRANT_GETHOSTBYADDR_R], [
  AC_LINK_IFELSE([
    AC_LANG_FUNC_LINK_TRY([gethostbyaddr_r])
  ],[
    tmp_gethostbyaddr_r="yes"
  ],[
    tmp_gethostbyaddr_r="no"
  ])
  if test "$tmp_gethostbyaddr_r" = "yes"; then
```



```

AC_EGREP_CPP([gethostbyaddr_r],[
#include <sys/types.h>
#include <netdb.h>
],[
    tmp_gethostbyaddr_r="proto_declared"
],[
    AC_EGREP_CPP([gethostbyaddr_r],[
#define _REENTRANT
#include <sys/types.h>
#include <netdb.h>
    ],[
        tmp_gethostbyaddr_r="proto_needs_reentrant"
        tmp_need_reentrant="yes"
    ])
])
fi
])

```

dnl CARES_CHECK_NEED_REENTRANT_GETHOSTBYNAME_R

dnl -----

dnl

Checks if the preprocessor _REENTRANT definition

dnl makes function gethostbyname_r compiler visible.

```

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_GETHOSTBYNAME_R], [
AC_LINK_IFELSE([
    AC_LANG_FUNC_LINK_TRY([gethostbyname_r])
],[
    tmp_gethostbyname_r="yes"
],[
    tmp_gethostbyname_r="no"
])
if test "$tmp_gethostbyname_r" = "yes"; then
    AC_EGREP_CPP([gethostbyname_r],[
#include <sys/types.h>
#include <netdb.h>
    ],[
        tmp_gethostbyname_r="proto_declared"
    ],[
        AC_EGREP_CPP([gethostbyname_r],[
#define _REENTRANT
#include <sys/types.h>
#include <netdb.h>
    ],[
        tmp_gethostbyname_r="proto_needs_reentrant"
        tmp_need_reentrant="yes"
    ])
])

```

```

    })
fi
})

```

dnl CARES_CHECK_NEED_REENTRANT_GETPROTOBYNAME_R

dnl -----

dnl Checks if the preprocessor _REENTRANT definition

dnl makes function getprotobyname_r compiler visible.

```

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_GETPROTOBYNAME_R], [
AC_LINK_IFELSE([
AC_LANG_FUNC_LINK_TRY([getprotobyname_r])
],[
tmp_getprotobyname_r="yes"
],[
tmp_getprotobyname_r="no"
])
if test "$tmp_getprotobyname_r" = "yes"; then
AC_EGREP_CPP([getprotobyname_r],[
#include <sys/types.h>
#include <netdb.h>
],[
tmp_getprotobyname_r="proto_declared"
],[
AC_EGREP_CPP([getprotobyname_r],[
#define _REENTRANT
#include <sys/types.h>
#include <netdb.h>
],[
tmp_getprotobyname_r="proto_needs_reentrant"
tmp_need_reentrant="yes"
])
])
fi
])

```

dnl CARES_CHECK_NEED_REENTRANT_GETSERVBYPORT_R

dnl -----

dnl Checks if the preprocessor _REENTRANT definition

dnl makes function getservbyport_r compiler visible.

```

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_GETSERVBYPORT_R], [
AC_LINK_IFELSE([
AC_LANG_FUNC_LINK_TRY([getservbyport_r])
],[
tmp_getservbyport_r="yes"

```

```

],[
    tmp_getservbyport_r="no"
])
if test "$tmp_getservbyport_r" = "yes"; then
    AC_EGREP_CPP([getservbyport_r],[
#include
<sys/types.h>
#include <netdb.h>
],[
    tmp_getservbyport_r="proto_declared"
],[
    AC_EGREP_CPP([getservbyport_r],[
#define _REENTRANT
#include <sys/types.h>
#include <netdb.h>
],[
    tmp_getservbyport_r="proto_needs_reentrant"
    tmp_need_reentrant="yes"
])
])
fi
])

dnl CARES_CHECK_NEED_REENTRANT_FUNCTIONS_R
dnl -----
dnl Checks if the preprocessor _REENTRANT definition
dnl makes several _r functions compiler visible.
dnl Internal macro for CARES_CONFIGURE_REENTRANT.

AC_DEFUN([CARES_CHECK_NEED_REENTRANT_FUNCTIONS_R], [
if test "$tmp_need_reentrant" = "no"; then
    CARES_CHECK_NEED_REENTRANT_GMTIME_R
fi
if test "$tmp_need_reentrant" = "no"; then
    CARES_CHECK_NEED_REENTRANT_LOCALTIME_R
fi
if test "$tmp_need_reentrant" = "no"; then
    CARES_CHECK_NEED_REENTRANT_STRERROR_R
fi
if test "$tmp_need_reentrant" = "no"; then
    CARES_CHECK_NEED_REENTRANT_STRTOK_R
fi
if test "$tmp_need_reentrant" = "no"; then
    CARES_CHECK_NEED_REENTRANT_INET_NTOA_R
fi
if test "$tmp_need_reentrant" = "no"; then
    CARES_CHECK_NEED_REENTRANT_GETHOSTBYADDR_R

```



```

*)
    tmp_need_thread_safe="no"
;;
esac
])

```

```

dnl CARES_CONFIGURE_FROM_NOW_ON_WITH_REENTRANT
dnl -----
dnl This macro ensures that configuration tests done
dnl after this will execute with preprocessor symbol
dnl _REENTRANT defined. This macro also ensures that
dnl the generated config file defines NEED_REENTRANT
dnl and that in turn setup.h will define _REENTRANT.
dnl Internal macro for CARES_CONFIGURE_REENTRANT.

```

```

AC_DEFUN([CARES_CONFIGURE_FROM_NOW_ON_WITH_REENTRANT], [
AC_DEFINE(NEED_REENTRANT, 1,
[Define
to 1 if _REENTRANT preprocessor symbol must be defined.])
cat >>confdefs.h <<_EOF
#ifndef _REENTRANT
# define _REENTRANT
#endif
_EOF
])

```

```

dnl CARES_CONFIGURE_FROM_NOW_ON_WITH_THREAD_SAFE
dnl -----
dnl This macro ensures that configuration tests done
dnl after this will execute with preprocessor symbol
dnl _THREAD_SAFE defined. This macro also ensures that
dnl the generated config file defines NEED_THREAD_SAFE
dnl and that in turn setup.h will define _THREAD_SAFE.
dnl Internal macro for CARES_CONFIGURE_THREAD_SAFE.

```

```

AC_DEFUN([CARES_CONFIGURE_FROM_NOW_ON_WITH_THREAD_SAFE], [
AC_DEFINE(NEED_THREAD_SAFE, 1,
[Define to 1 if _THREAD_SAFE preprocessor symbol must be defined.])
cat >>confdefs.h <<_EOF
#ifndef _THREAD_SAFE
# define _THREAD_SAFE
#endif
_EOF
])

```

```

dnl CARES_CONFIGURE_REENTRANT
dnl -----
dnl This first checks if the preprocessor _REENTRANT
dnl symbol is already defined. If it isn't currently
dnl
dnl defined a set of checks are performed to verify
dnl if its definition is required to make visible to
dnl the compiler a set of *_r functions. Finally, if
dnl _REENTRANT is already defined or needed it takes
dnl care of making adjustments necessary to ensure
dnl that it is defined equally for further configure
dnl tests and generated config file.

AC_DEFUN([CARES_CONFIGURE_REENTRANT], [
  AC_PREREQ([2.50])dnl
  #
  AC_MSG_CHECKING([if _REENTRANT is already defined])
  AC_COMPILE_IFELSE([
    AC_LANG_PROGRAM([
      ],[
        #ifdef _REENTRANT
          int dummy=1;
        #else
          force compilation error
        #endif
      ])
  ],[
    AC_MSG_RESULT([yes])
    tmp_reentrant_initially_defined="yes"
  ],[
    AC_MSG_RESULT([no])
    tmp_reentrant_initially_defined="no"
  ])
  #
  if test "$tmp_reentrant_initially_defined" = "no"; then
    AC_MSG_CHECKING([if _REENTRANT is actually needed])
    CARES_CHECK_NEED_REENTRANT_SYSTEM
    if test "$tmp_need_reentrant" = "no"; then
      CARES_CHECK_NEED_REENTRANT_ERRNO
    fi
    if test "$tmp_need_reentrant" = "no"; then
      CARES_CHECK_NEED_REENTRANT_FUNCTIONS_R
    fi
    if test "$tmp_need_reentrant" = "yes"; then
      AC_MSG_RESULT([yes])
    else
      AC_MSG_RESULT([no])
    fi
  fi

```

```

fi
#
AC_MSG_CHECKING([if _REENTRANT is onwards defined])
if test "$tmp_reentrant_initially_defined" = "yes" ||
    test "$tmp_need_reentrant" = "yes"; then
    CARES_CONFIGURE_FROM_NOW_ON_WITH_REENTRANT
    AC_MSG_RESULT([yes])
else
    AC_MSG_RESULT([no])
fi
#
])

```

```

dnl CARES_CONFIGURE_THREAD_SAFE
dnl -----
dnl This first checks if the preprocessor _THREAD_SAFE
dnl symbol is already defined. If it isn't currently
dnl defined a set of checks are performed to verify
dnl if its definition is required. Finally, if
dnl _THREAD_SAFE is already defined or needed it takes
dnl care of making adjustments necessary to ensure
dnl that it is defined equally for further configure
dnl tests and generated config file.

```

```

AC_DEFUN([CARES_CONFIGURE_THREAD_SAFE],
[
    AC_PREREQ([2.50])dnl
    #
    AC_MSG_CHECKING([if _THREAD_SAFE is already defined])
    AC_COMPILE_IFELSE([
        AC_LANG_PROGRAM([
            ],[
                #ifdef _THREAD_SAFE
                    int dummy=1;
                #else
                    force compilation error
                #endif
            ])
        ],[
            AC_MSG_RESULT([yes])
            tmp_thread_safe_initially_defined="yes"
        ],[
            AC_MSG_RESULT([no])
            tmp_thread_safe_initially_defined="no"
        ])
    #
    if test "$tmp_thread_safe_initially_defined" = "no"; then

```

```

AC_MSG_CHECKING([if _THREAD_SAFE is actually needed])
CARES_CHECK_NEED_THREAD_SAFE_SYSTEM
if test "$tmp_need_thread_safe" = "yes"; then
  AC_MSG_RESULT([yes])
else
  AC_MSG_RESULT([no])
fi
fi
#
AC_MSG_CHECKING([if _THREAD_SAFE is onwards defined])
if test "$tmp_thread_safe_initially_defined" = "yes" ||
  test "$tmp_need_thread_safe" = "yes"; then
  CARES_CONFIGURE_FROM_NOW_ON_WITH_THREAD_SAFE
  AC_MSG_RESULT([yes])
else
  AC_MSG_RESULT([no])
fi
#
])

```

Found

in path(s):

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/m4/cares-reentrant.m4

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 */

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/*

*

* IP-address/hostname to country converter.


```

*
* Problem; you want to know where IP a.b.c.d is located.
*
* Use ares_gethostbyname ("d.c.b.a.zz.countries.nerd.dk")
* and get the CNAME (host->h_name). Result will be:
* CNAME = zz<CC>.countries.nerd.dk with address 127.0.x.y (ver 1) or
* CNAME = <a.b.c.d>.zz.countries.nerd.dk with address 127.0.x.y (ver 2)
*
* The 2 letter country code is in <CC> and the ISO-3166 country
* number is in x.y (number = x*256 + y). Version 2 of the protocol is missing
* the <CC> number.
*
* Ref: http://countries.nerd.dk/more.html
*
* Written by G. Vanem <gvanem@broadpark.no> 2006, 2007
*
* NB! This program may not be big-endian aware.
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```

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```
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```

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```
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```

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* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_cancel.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_getnameinfo.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_set_servers.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_free_hostent.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_mkquery.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_process.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_save_options.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_expand_name.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_get_servers.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_fds.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_destroy.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_version.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_query.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_library_init.3

*

/c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_ns_reply.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_free_data.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_init.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_a_reply.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_library_cleanup.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_expand_string.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_send.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_txt_reply.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_strerror.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_gethostbyaddr.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_gethostbyname.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_ptr_reply.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_srv_reply.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_getsock.3

* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_destroy_options.3

```
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_timeout.3
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_dup.3
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_parse_aaaa_reply.3
*
/c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_search.3
* /c-ares-1-7-2-tar-gz/c-ares-1.7.2/ares_free_string.3
```

1.58 go-restful v3.11.0

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1.59 libcap 1:2.66-4

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

If such an object file uses only numerical parameters, data

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

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cd1

wallclockbuilder

dansouza

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1.65 github.com/charmbracelet/lipgloss v0.9.1

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1.68 github.com/fsnotify/fsnotify v1.7.0

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1.69 structured-merge-diff v4.4.1

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1.70 logr v1.4.1

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1.71 github.com/muesli/ansi v0.0.0-20230316100256-276c6243b2f6

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1.72 klog v2.120.1

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1.73 githubcomgolangprotobuf v1.5.4

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1.74 tzdata 2024a-0+deb12u1

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1.75 github.com/rivo/uniseg v0.4.7

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1.76 github.com/samber/lo v1.39.0

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1.77 github.com/charmbracelet/bubbles v0.18.0

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1.78 sqlite 3.45.2

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()]. The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
```

** options is:

- **
- ** SQLITE_CONFIG_LOG
- **
- ** SQLITE_CONFIG_PCACHE_HDRSZ
- **
- **

** New configuration options may be added in future releases of SQLite.

** Existing configuration options might be discontinued. Applications

** should check the return code from [sqlite3_config()] to make sure that

** the call worked. The [sqlite3_config()] interface will return a

** non-zero [error code] if a discontinued or unsupported configuration option

** is invoked.

**

** <dl>

** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>

** <dd>There are no arguments to this option. ^This option sets the

** [threading mode] to Single-thread. In other words, it disables

** all mutexing and puts SQLite into a mode where it can only be used

** by a single thread. ^If SQLite is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then

** it is not possible to change the [threading mode] from its default

** value of Single-thread and so [sqlite3_config()] will return

** [SQLITE_ERROR] if called

with the SQLITE_CONFIG_SINGLETHREAD

** configuration option.</dd>

**

** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>

** <dd>There are no arguments to this option. ^This option sets the

** [threading mode] to Multi-thread. In other words, it disables

** mutexing on [database connection] and [prepared statement] objects.

** The application is responsible for serializing access to

** [database connections] and [prepared statements]. But other mutexes

** are enabled so that SQLite will be safe to use in a multi-threaded

** environment as long as no two threads attempt to use the same

** [database connection] at the same time. ^If SQLite is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then

** it is not possible to set the Multi-thread [threading mode] and

** [sqlite3_config()] will return [SQLITE_ERROR] if called with the

** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

**

** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>

**

<dd>There are no arguments to this option. ^This option sets the

** [threading mode] to Serialized. In other words, this option enables

** all mutexes including the recursive

** mutexes on [database connection] and [prepared statement] objects.

** In this mode (which is the default when SQLite is compiled with

** [SQLITE_THREADSafe=1]) the SQLite library will itself serialize access
 ** to [database connections] and [prepared statements] so that the
 ** application is free to use the same [database connection] or the
 ** same [prepared statement] in different threads at the same time.
 ** ^If SQLite is compiled with
 ** the [SQLITE_THREADSafe | SQLITE_THREADSafe=0] compile-time option then
 ** it is not possible to set the Serialized [threading mode] and
 ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 ** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
 **
 ** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
 ** <dd> ^The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
 ** a pointer to an instance of the [sqlite3_mem_methods] structure.
 ** The argument specifies
 ** alternative low-level memory allocation routines to be used in place of
 ** the memory allocation routines built into SQLite.)^ ^SQLite makes
 ** its own private copy of the content of the [sqlite3_mem_methods] structure
 ** before the [sqlite3_config()] call returns.</dd>
 **
 ** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
 ** <dd> ^The SQLITE_CONFIG_GETMALLOC option takes a single argument which
 ** is a pointer to an instance of the [sqlite3_mem_methods] structure.
 ** The [sqlite3_mem_methods]
 ** structure is filled with the currently defined memory allocation routines.)^
 ** This option can be used to overload the default memory allocation
 ** routines with a wrapper that simulations memory allocation failure or
 ** tracks memory usage, for example. </dd>
 **
 ** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
 ** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
 ** type int, interpreted as a boolean, which if true provides a hint to
 ** SQLite that it should avoid large memory allocations if possible.
 ** SQLite will run faster if it is free to make large memory allocations,
 ** but some application might prefer to run slower in exchange for
 ** guarantees about memory fragmentation that are possible if large
 ** allocations are avoided. This hint is normally off.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
 ** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
 ** interpreted as a boolean, which enables or disables the collection of
 ** memory allocation statistics. ^When memory allocation statistics are
 ** disabled, the following SQLite interfaces become non-operational:
 **
 ** [sqlite3_hard_heap_limit64()]
 ** [sqlite3_memory_used()]


```

** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
**
    <li> [sqlite3_status64()]
** </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
    of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
    what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer

```

** that SQLite will use for all of its dynamic memory allocation needs
 ** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
 ** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
 ** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
 ** [SQLITE_ERROR] if invoked otherwise.
 ** ^There are three arguments to SQLITE_CONFIG_HEAP:
 ** An 8-byte aligned pointer to the memory,
 ** the number of bytes in the memory buffer, and the minimum allocation size.
 ** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
 ** to using its default memory allocator (the system malloc() implementation),
 ** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
 ** memory pointer
 is not NULL then the alternative memory
 ** allocator is engaged to handle all of SQLites memory allocation needs.
 ** The first pointer (the memory pointer) must be aligned to an 8-byte
 ** boundary or subsequent behavior of SQLite will be undefined.
 ** The minimum allocation size is capped at 2**12. Reasonable values
 ** for the minimum allocation size are 2**5 through 2**8.</dd>
 **
 ** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_MUTEX option takes a single argument which is a
 ** pointer to an instance of the [sqlite3_mutex_methods] structure.
 ** The argument specifies alternative low-level mutex routines to be used
 ** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
 ** the content of the [sqlite3_mutex_methods] structure before the call to
 ** [sqlite3_config()] returns. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the
 build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_GETMUTEX option takes a single argument which
 ** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
 ** [sqlite3_mutex_methods]
 ** structure is filled with the currently defined mutex routines.)^
 ** This option can be used to overload the default mutex allocation
 ** routines with a wrapper used to track mutex usage for performance
 ** profiling or testing, for example. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
 ** <dd> ^The SQLITE_CONFIG_LOOKASIDE

option takes two arguments that determine

- ** the default size of lookaside memory on each [database connection].
- ** The first argument is the
- ** size of each lookaside buffer slot and the second is the number of
- ** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
- ** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
- ** option to [sqlite3_db_config()] can be used to change the lookaside
- ** configuration on individual connections.)^ </dd>
- **
- ** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
- ** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
- ** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
- ** the interface to a custom page cache implementation.)^
- ** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
- **
- ** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
- ** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
- ** is
- ** a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
- ** the current page cache implementation into that object.)^ </dd>
- **
- ** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
- ** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
- ** global [error log].
- ** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
- ** function with a call signature of void (*)(void*,int,const char*),
- ** and a pointer to void. ^If the function pointer is not NULL, it is
- ** invoked by [sqlite3_log()] to process each logging event. ^If the
- ** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
- ** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
- ** passed through as the first parameter to the application-defined logger
- ** function whenever that function is invoked. ^The second parameter to
- ** the logger function is a copy of the first parameter to the corresponding
- ** [sqlite3_log()] call and is intended to be a [result code] or
- ** an
- ** [extended result code]. ^The third parameter passed to the logger is
- ** log message after formatting via [sqlite3_snprintf()].
- ** The SQLite logging interface is not reentrant; the logger function
- ** supplied by the application must not invoke any SQLite interface.
- ** In a multi-threaded application, the application-defined logger
- ** function must be threadsafe. </dd>
- **
- ** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
- ** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
- ** If non-zero, then URI handling is globally enabled. If the parameter is zero,
- ** then URI handling is globally disabled.)^ ^If URI handling is globally
- ** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
- ** [sqlite3_open16()] or

** specified as part of [ATTACH] commands are interpreted as URIs, regardless
 ** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
 ** connection is opened. ^If it is globally disabled, filenames are
 ** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
 ** database connection is opened. ^By default, URI handling is globally
 ** disabled. The default value may be changed by compiling with the
 ** [SQLITE_USE_URI] symbol defined.)^
 **
 ** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
 ** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
 ** argument which is interpreted as a boolean in order to enable or disable
 ** the use of covering indices for full table scans in the query optimizer.
 ** ^The default setting is determined
 ** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
 ** if that compile-time option is omitted.
 ** The ability to disable the use of covering indices for full table scans
 ** is because some incorrectly coded legacy applications might malfunction
 ** when the optimization is enabled. Providing the ability to
 ** disable the optimization allows the older, buggy application code to work
 ** without change
 even with newer versions of SQLite.
 **
 ** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
 ** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
 ** <dd> These options are obsolete and should not be used by new code.
 ** They are retained for backwards compatibility but are now no-ops.
 ** </dd>
 **
 ** [[SQLITE_CONFIG_SQLLOG]]
 ** <dt>SQLITE_CONFIG_SQLLOG
 ** <dd>This option is only available if sqlite is compiled with the
 ** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
 ** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
 ** The second should be of type (void*). The callback is invoked by the library
 ** in three separate circumstances, identified by the value passed as the
 ** fourth parameter. If the fourth parameter is 0, then the database connection
 ** passed as the second argument has just been opened. The third argument
 ** points to a buffer containing the name of the main database file. If the
 ** fourth parameter is 1,
 then the SQL statement that the third parameter
 ** points to has just been executed. Or, if the fourth parameter is 2, then
 ** the connection being passed as the second parameter is being closed. The
 ** third parameter is passed NULL In this case. An example of using this
 ** configuration option can be seen in the "test_sqllog.c" source file in
 ** the canonical SQLite source tree.</dd>
 **
 ** [[SQLITE_CONFIG_MMAP_SIZE]]

**** <dt>SQLITE_CONFIG_MMAP_SIZE**
**** <dd>^SQLITE_CONFIG_MMAP_SIZE** takes two 64-bit integer (sqlite3_int64) values
****** that are the default mmap size limit (the default setting for
****** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
****** ^The default setting can be overridden by each database connection using
****** either the [PRAGMA mmap_size] command, or by using the
****** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
****** will be silently truncated if necessary so that it does not exceed the
****** compile-time maximum mmap size set by the
****** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
****** ^If either argument to this option is negative, then that argument is
****** changed to its compile-time default.

****** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
**** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE**
**** <dd>^The** SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
****** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
****** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
****** that specifies the maximum size of the created heap.

****** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
**** <dt>SQLITE_CONFIG_PCACHE_HDRSZ**
**** <dd>^The** SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
****** is a pointer to an integer and writes into that integer the number of extra
****** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
****** The amount of extra space required can change depending on the compiler,
****** target platform, and SQLite version.

****** [[SQLITE_CONFIG_PMASZ]]
**** <dt>SQLITE_CONFIG_PMASZ**
**** <dd>^The**
 SQLITE_CONFIG_PMASZ option takes a single parameter which
****** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
****** sorter to that integer. The default minimum PMA Size is set by the
****** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
****** to help with sort operations when multithreaded sorting
****** is enabled (using the [PRAGMA threads] command) and the amount of content
****** to be sorted exceeds the page size times the minimum of the
****** [PRAGMA cache_size] setting and this value.

****** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
**** <dt>SQLITE_CONFIG_STMTJRNL_SPILL**
**** <dd>^The** SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
****** becomes the [statement journal] spill-to-disk threshold.
****** [Statement journals] are held in memory until their size (in bytes)
****** exceeds this threshold, at which point they are written to disk.
****** Or if the threshold is -1, statement journals are always held

** exclusively in memory.
 ** Since many statement journals
 never become large, setting the spill
 ** threshold to a value such as 64KiB can greatly reduce the amount of
 ** I/O required to support statement rollback.
 ** The default value for this setting is controlled by the
 ** [SQLITE_STMTJRNL_SPILL] compile-time option.
 **
 ** [[SQLITE_CONFIG_SORTERREF_SIZE]]
 ** <dt>SQLITE_CONFIG_SORTERREF_SIZE
 ** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
 ** of type (int) - the new value of the sorter-reference size threshold.
 ** Usually, when SQLite uses an external sort to order records according
 ** to an ORDER BY clause, all fields required by the caller are present in the
 ** sorted records. However, if SQLite determines based on the declared type
 ** of a table column that its values are likely to be very large - larger
 ** than the configured sorter-reference size threshold - then a reference
 ** is stored in each sorted record and the required column values loaded
 ** from the database as records are returned in sorted order.
 The default
 ** value for this option is to never use this optimization. Specifying a
 ** negative value for this option restores the default behavior.
 ** This option is only available if SQLite is compiled with the
 ** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
 **
 ** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
 ** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
 ** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
 ** [sqlite3_int64] parameter which is the default maximum size for an in-memory
 ** database created using [sqlite3_deserialize()]. This default maximum
 ** size can be adjusted up or down for individual databases using the
 ** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
 ** configuration setting is never used, then the default maximum is determined
 ** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
 ** compile-time option is not set, then the default maximum is 1073741824.
 ** </dd>
 */

 Found in path(s):
 * /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.h
 No license file was found, but licenses were detected in source scan.

 /*
 ** 2022-11-18
 **
 ** The author disclaims copyright to this source code. In place of
 ** a legal notice, here is a blessing:
 **

```

** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**
*****
**
** This is a SQLite extension for converting in either direction
** between a (binary) blob and base64 text. Base64 can transit a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals,
** and can be used unmodified in XML-like documents.
**
** This is an independent implementation of conversions specified in
** RFC 4648, done on the above date by the author (Larry Brasfield)
** who thereby has the right to put this into the public domain.
**
** The conversions meet RFC 4648 requirements,
    provided that this
** C source specifies that line-feeds are included in the encoded
** data to limit visible line lengths to 72 characters and to
** terminate any encoded blob having non-zero length.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Generated base64 sequences, with their line-feeds included,
** can be concatenated; the result converted back to binary will
** be the concatenation of the represented binary sequences.
**
** This SQLite3 extension creates a function, base64(x), which
** either: converts text x containing base64 to a returned blob;
** or converts a blob x to returned text containing base64. An
** error will be thrown for other input argument types.
**
** This code relies on UTF-8 encoding only with respect to the
** meaning of the first 128 (7-bit) codes matching that of USASCII.
** It will fail miserably
    if somehow made to try to convert EBCDIC.
** Because it is table-driven, it could be enhanced to handle that,
** but the world and SQLite have moved on from that anachronism.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** *Nix: gcc -O2 -shared -I$SQDIR -fPIC -o base64.so base64.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR -o base64.dylib base64.c
** Win32: gcc -O2 -shared -I%SQDIR% -o base64.dll base64.c
** Win32: cl /Os -I%SQDIR% base64.c -link -dll -out:base64.dll
*/

```

```

/*
** 2022-11-16
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**
*****
**
** This is a utility for converting binary to base85 or vice-versa.
** It can be built as a standalone
program or an SQLite3 extension.
**
** Much like base64 representations, base85 can be sent through a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals.
** It is not suited for unmodified use in XML-like documents.
**
** The encoding used resembles Ascii85, but was devised by the author
** (Larry Brasfield) before Mozilla, Adobe, ZMODEM or other Ascii85
** variant sources existed, in the 1984 timeframe on a VAX mainframe.
** Further, this is an independent implementation of a base85 system.
** Hence, the author has rightfully put this into the public domain.
**
** Base85 numerals are taken from the set of 7-bit USASCII codes,
** excluding control characters and Space ! " ' ( ) { | } ~ Del
** in code order representing digit values 0 to 84 (base 10.)
**
** Groups of 4 bytes, interpreted as big-endian 32-bit values,
** are represented as 5-digit base85 numbers with MS to LS digit
** order. Groups
of 1-3 bytes are represented with 2-4 digits,
** still big-endian but 8-24 bit values. (Using big-endian yields
** the simplest transition to byte groups smaller than 4 bytes.
** These byte groups can also be considered base-256 numbers.)
** Groups of 0 bytes are represented with 0 digits and vice-versa.
** No pad characters are used; Encoded base85 numeral sequence
** (aka "group") length maps 1-to-1 to the decoded binary length.
**
** Any character not in the base85 numeral set delimits groups.
** When base85 is streamed or stored in containers of indefinite
** size, newline is used to separate it into sub-sequences of no
** more than 80 digits so that fgets() can be used to read it.
**
** Length limitations are not imposed except that the runtime

```



```

** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Base85 sequences can be concatenated by separating them with
** a non-base85 character; the conversion to binary
will then
** be the concatenation of the represented binary sequences.

** The standalone program either converts base85 on stdin to create
** a binary file or converts a binary file to base85 on stdout.
** Read or make it blurt its help for invocation details.
**

** The SQLite3 extension creates a function, base85(x), which will
** either convert text base85 to a blob or a blob to text base85
** and return the result (or throw an error for other types.)
** Unless built with OMIT_BASE85_CHECKER defined, it also creates a
** function, is_base85(t), which returns 1 iff the text t contains
** nothing other than base85 numerals and whitespace, or 0 otherwise.
**

** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** and variable OPTS to -DOMIT_BASE85_CHECKER if is_base85() unwanted.
** *Nix: gcc -O2 -shared -I$SQDIR $OPTS -fPIC -o base85.so base85.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR $OPTS -o base85.dylib base85.c
** Win32: gcc -O2
-shared -I$SQDIR% %OPTS% -o base85.dll base85.c
** Win32: cl /Os -I$SQDIR% %OPTS% base85.c -link -dll -out:base85.dll
**

** To build the standalone program, define PP symbol BASE85_STANDALONE. Eg.
** *Nix or OSX: gcc -O2 -DBASE85_STANDALONE base85.c -o base85
** Win32: gcc -O2 -DBASE85_STANDALONE -o base85.exe base85.c
** Win32: cl /Os /MD -DBASE85_STANDALONE base85.c
*/

/* This will be more informative in a later version. */

```

Found in path(s):

* /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/shell.c

No license file was found, but licenses were detected in source scan.

```

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()]. The few exceptions to this rule are called

```

** "anytime configuration options".
 ** ^Calling [sqlite3_config()] with a first argument that is not an
 ** anytime configuration option in between calls to [sqlite3_initialize()] and
 ** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
 **
 ** The set of anytime configuration options can change (by insertions
 ** and/or deletions) from one release of SQLite to the next.
 ** As of SQLite version 3.42.0, the complete set of anytime configuration
 ** options is:
 **
 ** SQLITE_CONFIG_LOG
 **
 ** SQLITE_CONFIG_PCACHE_HDRSZ
 **
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all mutexing and puts SQLite into a mode where it can only be used
 ** by a single thread. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called
 ** with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option.</dd>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** mutexing on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
 ** environment as long as no two threads attempt to use the same
 ** [database connection] at the same time. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to set the Multi-thread [threading mode] and
 ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 ** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

****** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>

 <dd>There are no arguments to this option. ^This option sets the
****** [threading mode] to Serialized. In other words, this option enables
****** all mutexes including the recursive
****** mutexes on [database connection] and [prepared statement] objects.
****** In this mode (which is the default when SQLite is compiled with
****** [SQLITE_THREADSafe=1]) the SQLite library will itself serialize access
****** to [database connections] and [prepared statements] so that the
****** application is free to use the same [database connection] or the
****** same [prepared statement] in different threads at the same time.
****** ^If SQLite is compiled with
****** the [SQLITE_THREADSafe | SQLITE_THREADSafe=0] compile-time option then
****** it is not possible to set the Serialized [threading mode] and
****** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
****** SQLITE_CONFIG_SERIALIZED configuration option.</dd>

****** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
****** <dd> ^The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
****** a pointer to an instance of the [sqlite3_mem_methods] structure.
****** The argument specifies
****** alternative low-level memory allocation routines to be used in place of
****** the memory allocation routines built into SQLite.)^ ^SQLite makes
****** its own private copy of the content of the [sqlite3_mem_methods] structure
****** before the [sqlite3_config()] call returns.</dd>

****** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
****** <dd> ^The SQLITE_CONFIG_GETMALLOC option takes a single argument which
****** is a pointer to an instance of the [sqlite3_mem_methods] structure.
****** The [sqlite3_mem_methods]
****** structure is filled with the currently defined memory allocation routines.)^
****** This option can be used to overload the default memory allocation
****** routines with a wrapper that simulations memory allocation failure or
****** tracks memory usage, for example. </dd>

****** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
****** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
****** type int, interpreted as a boolean, which if true provides a hint to
****** SQLite that it should avoid large memory allocations if possible.
****** SQLite will run faster if it is free to make large memory allocations,
****** but some application might prefer to run slower in exchange for
****** guarantees about memory fragmentation that are possible if large
****** allocations are avoided. This hint is normally off.
****** </dd>

```

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_hard_heap_limit64()]
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
**
** <li> [sqlite3_status64()]
** </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or

```

** of -1024*N bytes if N is negative, . ^If additional
 ** page cache memory is needed beyond
 what is provided by the initial
 ** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
 ** additional cache line. </dd>
 **
 ** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
 ** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
 ** that SQLite will use for all of its dynamic memory allocation needs
 ** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
 ** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
 ** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
 ** [SQLITE_ERROR] if invoked otherwise.
 ** ^There are three arguments to SQLITE_CONFIG_HEAP:
 ** An 8-byte aligned pointer to the memory,
 ** the number of bytes in the memory buffer, and the minimum allocation size.
 ** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
 ** to using its default memory allocator (the system malloc() implementation),
 ** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
 ** memory pointer
 is not NULL then the alternative memory
 ** allocator is engaged to handle all of SQLites memory allocation needs.
 ** The first pointer (the memory pointer) must be aligned to an 8-byte
 ** boundary or subsequent behavior of SQLite will be undefined.
 ** The minimum allocation size is capped at 2**12. Reasonable values
 ** for the minimum allocation size are 2**5 through 2**8.</dd>
 **
 ** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_MUTEX option takes a single argument which is a
 ** pointer to an instance of the [sqlite3_mutex_methods] structure.
 ** The argument specifies alternative low-level mutex routines to be used
 ** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
 ** the content of the [sqlite3_mutex_methods] structure before the call to
 ** [sqlite3_config()] returns. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the
 build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
 ** <dd> ^The SQLITE_CONFIG_GETMUTEX option takes a single argument which
 ** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
 ** [sqlite3_mutex_methods]
 ** structure is filled with the currently defined mutex routines.)^
 ** This option can be used to overload the default mutex allocation
 ** routines with a wrapper used to track mutex usage for performance
 ** profiling or testing, for example. ^If SQLite is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** the entire mutexing subsystem is omitted from the build and hence calls to
 ** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
 ** return [SQLITE_ERROR].</dd>
 **
 ** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
 ** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
 ** the default size of lookaside memory on each [database connection].
 ** The first argument is the
 ** size of each lookaside buffer slot and the second is the number of
 ** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
 ** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
 ** option to [sqlite3_db_config()] can be used to change the lookaside
 ** configuration on individual connections.)^ </dd>
 **
 ** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
 ** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
 ** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
 ** the interface to a custom page cache implementation.)^
 ** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
 **
 ** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
 ** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
 ** is
 a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
 ** the current page cache implementation into that object.)^ </dd>
 **
 ** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
 ** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
 ** global [error log].
 ** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
 ** function with a call signature of void(*)(void*,int,const char*),
 ** and a pointer to void. ^If the function pointer is not NULL, it is
 ** invoked by [sqlite3_log()] to process each logging event. ^If the
 ** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
 ** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
 ** passed through as the first parameter to the application-defined logger
 ** function whenever that function is invoked. ^The second parameter to
 ** the logger function is a copy of the first parameter to the corresponding
 ** [sqlite3_log()] call and is intended to be a [result code] or
 an
 ** [extended result code]. ^The third parameter passed to the logger is
 ** log message after formatting via [sqlite3_snprintf()].
 ** The SQLite logging interface is not reentrant; the logger function
 ** supplied by the application must not invoke any SQLite interface.
 ** In a multi-threaded application, the application-defined logger
 ** function must be threadsafe. </dd>

****** `[[SQLITE_CONFIG_URI]]` <dt>`SQLITE_CONFIG_URI`
****** <dd>^(The `SQLITE_CONFIG_URI` option takes a single argument of type `int`.
****** If non-zero, then URI handling is globally enabled. If the parameter is zero,
****** then URI handling is globally disabled.)^ ^If URI handling is globally
****** enabled, all filenames passed to `[sqlite3_open()]`, `[sqlite3_open_v2()]`,
****** `[sqlite3_open16()]` or
****** specified as part of `[ATTACH]` commands are interpreted as URIs, regardless
****** of whether or not the `[SQLITE_OPEN_URI]` flag is set when the database
****** connection is opened. ^If it is globally disabled, filenames are
****** only interpreted as
 URIs if the `SQLITE_OPEN_URI` flag is set when the
****** database connection is opened. ^By default, URI handling is globally
****** disabled. The default value may be changed by compiling with the
****** `[SQLITE_USE_URI]` symbol defined.)^

****** `[[SQLITE_CONFIG_COVERING_INDEX_SCAN]]` <dt>`SQLITE_CONFIG_COVERING_INDEX_SCAN`
****** <dd>^The `SQLITE_CONFIG_COVERING_INDEX_SCAN` option takes a single integer
****** argument which is interpreted as a boolean in order to enable or disable
****** the use of covering indices for full table scans in the query optimizer.
****** ^The default setting is determined
****** by the `[SQLITE_ALLOW_COVERING_INDEX_SCAN]` compile-time option, or is "on"
****** if that compile-time option is omitted.
****** The ability to disable the use of covering indices for full table scans
****** is because some incorrectly coded legacy applications might malfunction
****** when the optimization is enabled. Providing the ability to
****** disable the optimization allows the older, buggy application code to work
****** without change
 even with newer versions of SQLite.

****** `[[SQLITE_CONFIG_PCACHE]]` `[[SQLITE_CONFIG_GETPCACHE]]`
****** <dt>`SQLITE_CONFIG_PCACHE` and `SQLITE_CONFIG_GETPCACHE`
****** <dd> These options are obsolete and should not be used by new code.
****** They are retained for backwards compatibility but are now no-ops.
****** </dd>

****** `[[SQLITE_CONFIG_SQLLOG]]`
****** <dt>`SQLITE_CONFIG_SQLLOG`
****** <dd>This option is only available if `sqlite` is compiled with the
****** `[SQLITE_ENABLE_SQLLOG]` pre-processor macro defined. The first argument should
****** be a pointer to a function of type `void (*)(void*,sqlite3*,const char*, int)`.
****** The second should be of type `(void*)`. The callback is invoked by the library
****** in three separate circumstances, identified by the value passed as the
****** fourth parameter. If the fourth parameter is 0, then the database connection
****** passed as the second argument has just been opened. The third argument
****** points to a buffer containing the name of the main database file. If the
****** fourth parameter is 1,

then the SQL statement that the third parameter

** points to has just been executed. Or, if the fourth parameter is 2, then

** the connection being passed as the second parameter is being closed. The

** third parameter is passed NULL In this case. An example of using this

** configuration option can be seen in the "test_sqllog.c" source file in

** the canonical SQLite source tree.</dd>

**

** [[SQLITE_CONFIG_MMAP_SIZE]]

** <dt>SQLITE_CONFIG_MMAP_SIZE

** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values

** that are the default mmap size limit (the default setting for

** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.

** ^The default setting can be overridden by each database connection using

** either the [PRAGMA mmap_size] command, or by using the

** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size

** will be silently truncated if necessary so that it does not exceed the

** compile-time maximum mmap size set by the

** [SQLITE_MAX_MMAP_SIZE]

compile-time option.)^

** ^If either argument to this option is negative, then that argument is

** changed to its compile-time default.

**

** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]

** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE

** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is

** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro

** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value

** that specifies the maximum size of the created heap.

**

** [[SQLITE_CONFIG_PCACHE_HDRSZ]]

** <dt>SQLITE_CONFIG_PCACHE_HDRSZ

** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which

** is a pointer to an integer and writes into that integer the number of extra

** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].

** The amount of extra space required can change depending on the compiler,

** target platform, and SQLite version.

**

** [[SQLITE_CONFIG_PMASZ]]

** <dt>SQLITE_CONFIG_PMASZ

** <dd>^The

SQLITE_CONFIG_PMASZ option takes a single parameter which

** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded

** sorter to that integer. The default minimum PMA Size is set by the

** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched

** to help with sort operations when multithreaded sorting

** is enabled (using the [PRAGMA threads] command) and the amount of content

** to be sorted exceeds the page size times the minimum of the

** [PRAGMA cache_size] setting and this value.


```

**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
  never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
  The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
**/
/*
** The "printf" code that follows dates

```

```

from the 1980's. It is in
** the public domain.
**
*****

**

** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
**
**/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**   May you do good and not evil.
**   May you find forgiveness for yourself and forgive others.
**   May you share freely, never taking more than you give.
**
*****

**

** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file
** locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labelled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)

```

```

** * sqlite3_file methods not associated with locking.
**
* Definitions of sqlite3_io_methods objects for all locking
** methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

```

Found in path(s):

* /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.c

1.79 liblzma 5.4.1-0.2

1.79.1 Available under license :

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=====

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```

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1.80 libffi8 3.4.4-1

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```

```
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Ty Coon, President of Vice
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1.81 k8s-io-kube-openapi v0.0.0-20240228011516-70dd3763d340

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"``
```

```

}
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```

package spec

import "testing"

```

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

```

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1.82 nghttp2 1.7.2

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```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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```

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```
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```
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=====
```

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

```
*/
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

[illegible][illegible]

-->

<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />

</script>

<div id="path">

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

class="warning">Notice:
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placed here should be pointed towards suggestions on improving the documentation or server, and may be removed
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<script type="text/javascript"><!--<!--><![CDATA[</><!--

var comments_shortcode = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +

comments_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

```

    }
    else {
        d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
    }
})(window, document);
//--><![></script></div><div id="footer">
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href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
}
//--><![></script>
</body></html>
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```

```
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#####  
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1.85 k8s-io-apimachinery v0.30.1

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1.87 k8s-io-client-go v0.30.1

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1.88 x-oauth2 v0.20.0

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1.89 github.com/charmbracelet/x/input v0.1.0

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1.91 zerolog v1.33.0

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

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

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

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

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

- 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
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- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.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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cmd/krb5/kadmin/server/ipropd_svc.c

cmd/krb5/kproplog/kproplog.c

cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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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
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lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

kprop/kpropd_rpc.c
kprop/kproplog.c

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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c

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

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

include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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kprop/kpropd_rpc.c
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1.99 x-net v0.27.0

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1.101 pq 15.8-0+deb12u1

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```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands  
// won't continue to be processed until the handler returns.  
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {  
    c.(*conn).noticeHandler = handler  
}
```

```
// NoticeHandlerConnector wraps a regular connector and sets a notice handler  
//  
on it.  
type NoticeHandlerConnector struct {  
    driver.Connector
```

```

noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

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1.102 libsystemd 254.16-1~bpo12+1

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- src/basic/siphash24.c
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OpenSSL Notes

Note that building the systemd project with OpenSSL does not affect the libsystemd.so shared library, which is not linked with the OpenSSL library.

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1.104 github.com/xo/terminfo v0.0.0-20220910002029-abceb7e1c41e

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1.105 github.com/erikgeiser/coninput v0.0.0-20211004153227-1c3628e74d0f

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1.106 github.com/charmbracelet/x/term v0.1.1

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1.107 github.com/evertras/bubble-table v0.16.0

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1.108

google.golang.org/genproto/googleapis/rpc v0.0.0-20240709173604-40e1e62336c5

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1.109 github.com/charmbracelet/x/ansi v0.1.2

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1.110 github.com/charmbracelet/bubbletea v0.26.4

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1.111 [golang-org-x-exp](https://github.com/golang-exp/golang-exp) v0.0.0-20220909182711-5c715a9e8561

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1.112 libc 2.36-9+deb12u8

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any

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1.115 golang 1.22.7

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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Monkey HTTP Server

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For src/crc32c.c copied (with modifications) from

<http://stackoverflow.com/a/17646775/1821055>

/* crc32c.c -- compute CRC-32C using the Intel crc32 instruction

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* Version 1.1 1 Aug 2013 Mark Adler

*/

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Mark Adler

madler@alumni.caltech.edu

*/

For sys/queue.h:

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 *
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/*

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*/

enclave {

include "stdint.h"

include "stdbool.h"

include "unistd.h"

untrusted {

int ocall_open([in, string]const char *pathname, int flags,
bool has_mode, unsigned mode);

int ocall_openat(int dirfd,
[in, string]const char *pathname, int flags,
bool has_mode, unsigned mode);

int ocall_close(int fd);

ssize_t ocall_read(int fd, [out, size=read_size]void *buf,
size_t read_size);

off_t ocall_lseek(int fd, off_t offset, int whence);

int ocall_ftruncate(int fd, off_t length);

int ocall_fsync(int fd);

int ocall_fdatasync(int fd);

int ocall_isatty(int fd);

void ocall_fdopendir(int fd, [out]void **p_dirp);

/* implementation related to multiple thread */

void *ocall_readdir([user_check]void
*dirp);

void ocall_rewinddir([user_check]void *dirp);

void ocall_seekdir([user_check]void *dirp, long loc);

long ocall_telldir([user_check]void *dirp);

int ocall_closedir([user_check]void *dirp);

int ocall_stat([in, string]const char *pathname,
[out, size=buf_len]void *buf,
unsigned int buf_len);

int ocall_fstat(int fd, [out, size=buf_len]void *buf,
unsigned int buf_len);

int ocall_fstatat(int dirfd, [in, string]const char *pathname,
[out, size=buf_len]void *buf,
unsigned int buf_len, int flags);

int ocall_mkdirat(int dirfd, [in, string]const char *pathname,
unsigned mode);

int ocall_link([in, string] const char *oldpath,

```

[in, string] const char *newpath);
int ocall_linkat(int olddirfd, [in, string]const char
*oldpath,
    int newdirfd, [in, string]const char *newpath,
    int flags);
int ocall_unlinkat(int dirfd, [in, string]const char *pathname,
    int flags);
ssize_t ocall_readlink([in, string]const char *pathname,
    [out, size=bufsiz]char *buf,
    size_t bufsiz);
ssize_t ocall_readlinkat(int dirfd,
    [in, string]const char *pathname,
    [out, size=bufsiz]char *buf,
    size_t bufsiz);
int ocall_renameat(int olddirfd,
    [in, string]const char *oldpath,
    int newdirfd,
    [in, string]const char *newpath);
int ocall_symlinkat([in ,string]const char *target,
    int newdirfd,
    [in, string]const char *linkpath);

int ocall_ioctl(int fd, unsigned long request,
    [out, size=arg_len]void *arg,
    unsigned int arg_len);
int ocall_fcntl(int fd, int cmd);
int ocall_fcntl_long(int fd, int cmd, long arg);

int ocall_realpath([in, string]const char *path,
    [out, size=buf_len]char *buf,
    unsigned int buf_len);
int ocall_posix_fallocate(int fd, off_t offset, off_t len);
int ocall_poll([in, out, size=fds_len]void *fds, unsigned nfds,
    int timeout, unsigned int fds_len);

int ocall_getopt(int argc,
    [in, size=argv_buf_len]char *argv_buf,
    unsigned int argv_buf_len,
    [in, string]const char *optstring);
ssize_t ocall_readv(int fd,
    [in, out, size=buf_size]char *iov_buf,
    unsigned int buf_size, int iovcnt,

    bool has_offset, off_t offset);
ssize_t ocall_writev(int fd,
    [in, size=buf_size]char *iov_buf,
    unsigned int buf_size, int iovcnt,

```

```

        bool has_offset, off_t offset);

/* time clock */
int ocall_clock_gettime(unsigned clock_id,
                        [out, size=tp_buf_size]void *tp_buf,
                        unsigned int tp_buf_size);
int ocall_clock_getres(int clock_id,
                        [out, size=res_buf_size]void *res_buf,
                        unsigned int res_buf_size);
int ocall_utimensat(int dirfd, [in, string]const char *pathname,
                    [in, size=times_buf_size]const void *times_buf,
                    unsigned int times_buf_size, int flags);
int ocall_futimens(int fd, [in, size=times_buf_size]const void *times_buf,
                    unsigned int times_buf_size);
int ocall_clock_nanosleep(unsigned clock_id, int flags,
                           [in, size=req_buf_size]const void *req_buf,
                           unsigned int req_buf_size,
                           [out, size=rem_buf_size]void *rem_buf,
                           unsigned int rem_buf_size);

int ocall_raise(int sig);

int ocall_sched_yield();

int ocall_pthread_rwlock_init([out]void **rwlock, [user_check]void *attr);
int ocall_pthread_rwlock_destroy([user_check]void *rwlock);
int ocall_pthread_rwlock_rdlock([user_check]void *rwlock);
int ocall_pthread_rwlock_wrlock([user_check]void *rwlock);
int ocall_pthread_rwlock_unlock([user_check]void *rwlock);

int ocall_get_errno();

/* sockets */
int ocall_accept(int sockfd, [in, size=addr_size]void *addr,
                 [in, size=4] uint32_t *addrlen, uint32_t addr_size);
int ocall_bind(int sockfd,
               [in, size=addrlen]const void *addr,
               uint32_t addrlen);
int ocall_connect(int sockfd, [in, size=addrlen]void *addr, uint32_t addrlen);
int ocall_getsockname(int sockfd, [out, size=addr_size]void *addr,
                       [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
int ocall_getpeername(int sockfd, [out, size=addr_size]void *addr,
                       [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
int ocall_getsockopt(int sockfd, int level, int optname,
                     [out, size=val_buf_size]void *val_buf,
                     unsigned int val_buf_size,
                     [in, out, size=4]void *len_buf);
int ocall_listen(int sockfd, int backlog);

```

```

int ocall_recv(int sockfd, [out, size=len]void *buf, size_t len, int flags);
ssize_t ocall_recvfrom(int sockfd, [out, size=len]void *buf, size_t len, int flags,
                        [out,
size=addr_size]void *src_addr,
                        [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
ssize_t ocall_recvmsg(int sockfd,
                      [in, out, size=msg_buf_size]void *msg_buf,
                      unsigned int msg_buf_size,
                      int flags);
int ocall_send(int sockfd, [in, size=len]const void *buf, size_t len, int flags);
ssize_t ocall_sendto(int sockfd, [in, size=len]const void *buf, size_t len, int flags,
                    [in, size=addrlen]void *dest_addr, uint32_t addrlen);
ssize_t ocall_sendmsg(int sockfd,
                      [in, size=msg_buf_size]void *msg_buf,
                      unsigned int msg_buf_size,
                      int flags);
int ocall_setsockopt(int sockfd, int level, int optname,
                    [in, size=optlen]void *optval,
                    unsigned int optlen);

int
ocall_shutdown(int sockfd, int how);
int ocall_socket(int domain, int type, int protocol);
};
};
#####
# LICENSE.snappy covers files: snappy.c, snappy.h, snappy_compat.h #
# originally retrieved from http://github.com/andikleen/snappy-c #
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#####

```

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parts of src/rdmurmur2.c: [git@github.com:abandoned/murmur2.git](https://github.com:abandoned/murmur2.git)

MurMurHash2 Library

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1.118 luajit 2.1.1727467769

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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<http://stackoverflow.com/a/17646775/1821055>

/* crc32c.c -- compute CRC-32C using the Intel crc32 instruction

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* Version 1.1 1 Aug 2013 Mark Adler

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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src/rdxhash.[ch] src/lz4*.ch: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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For src/crc32c.c copied (with modifications) from

<http://stackoverflow.com/a/17646775/1821055>

/* crc32c.c -- compute CRC-32C using the Intel crc32 instruction

* Copyright (C) 2013 Mark Adler

* Version 1.1 1 Aug 2013 Mark Adler

*/

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*/

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*/

enclave {

include "stdint.h"

include "stdbool.h"

include "unistd.h"

untrusted {

int ocall_open([in, string]const char *pathname, int flags,
bool has_mode, unsigned mode);

int ocall_openat(int dirfd,
[in, string]const char *pathname, int flags,
bool has_mode, unsigned mode);

int ocall_close(int fd);

ssize_t ocall_read(int fd, [out, size=read_size]void *buf,
size_t read_size);

off_t ocall_lseek(int fd, off_t offset, int whence);

int ocall_ftruncate(int fd, off_t length);

int ocall_fsync(int fd);

int ocall_fdatasync(int fd);

int ocall_isatty(int fd);

void ocall_fdopendir(int fd, [out]void **p_dirp);

/* implementation related to multiple thread */

void *ocall_readdir([user_check]void

```

*dirp);
void ocall_rewinddir([user_check]void *dirp);
void ocall_seekdir([user_check]void *dirp, long loc);
long ocall_telltdir([user_check]void *dirp);
int ocall_closedir([user_check]void *dirp);

int ocall_stat([in, string]const char *pathname,
               [out, size=buf_len]void *buf,
               unsigned int buf_len);
int ocall_fstat(int fd, [out, size=buf_len]void *buf,
                unsigned int buf_len);
int ocall_fstatat(int dirfd, [in, string]const char *pathname,
                  [out, size=buf_len]void *buf,
                  unsigned int buf_len, int flags);

int ocall_mkdirat(int dirfd, [in, string]const char *pathname,
                  unsigned mode);
int ocall_link([in, string] const char *oldpath,
               [in, string] const char *newpath);
int ocall_linkat(int olddirfd, [in, string]const char
*oldpath,
                  int newdirfd, [in, string]const char *newpath,
                  int flags);
int ocall_unlinkat(int dirfd, [in, string]const char *pathname,
                   int flags);
ssize_t ocall_readlink([in, string]const char *pathname,
                       [out, size=bufsiz]char *buf,
                       size_t bufsiz);
ssize_t ocall_readlinkat(int dirfd,
                         [in, string]const char *pathname,
                         [out, size=bufsiz]char *buf,
                         size_t bufsiz);
int ocall_renameat(int olddirfd,
                   [in, string]const char *oldpath,
                   int newdirfd,
                   [in, string]const char *newpath);
int ocall_symlinkat([in ,string]const char *target,
                    int newdirfd,
                    [in, string]const char *linkpath);

int ocall_ioctl(int fd, unsigned long request,
                [out, size=arg_len]void *arg,
                unsigned int arg_len);
int ocall_fcntl(int fd, int cmd);
int ocall_fcntl_long(int fd, int cmd, long arg);

int ocall_realpath([in, string]const char *path,

```

```

        [out, size=buf_len]char *buf,
        unsigned int buf_len);
int ocall_posix_fallocate(int fd, off_t offset, off_t len);
int ocall_poll([in, out, size=fds_len]void *fds, unsigned nfds,
        int timeout, unsigned int fds_len);

int ocall_getopt(int argc,
        [in, size=argv_buf_len]char *argv_buf,
        unsigned int argv_buf_len,
        [in, string]const char *optstring);
ssize_t ocall_readv(int fd,
        [in, out, size=buf_size]char *iov_buf,
        unsigned int buf_size, int iovcnt,

        bool has_offset, off_t offset);
ssize_t ocall_writev(int fd,
        [in, size=buf_size]char *iov_buf,
        unsigned int buf_size, int iovcnt,
        bool has_offset, off_t offset);

/* time clock */
int ocall_clock_gettime(unsigned clock_id,
        [out, size=tp_buf_size]void *tp_buf,
        unsigned int tp_buf_size);
int ocall_clock_getres(int clock_id,
        [out, size=res_buf_size]void *res_buf,
        unsigned int res_buf_size);
int ocall_utimensat(int dirfd, [in, string]const char *pathname,
        [in, size=times_buf_size]const void *times_buf,
        unsigned int times_buf_size, int flags);
int ocall_futimens(int fd, [in, size=times_buf_size]const void *times_buf,
        unsigned int times_buf_size);
int ocall_clock_nanosleep(unsigned clock_id, int flags,
        [in, size=req_buf_size]const void *req_buf,
        unsigned int req_buf_size,
        [out, size=rem_buf_size]void *rem_buf,
        unsigned int rem_buf_size);

int ocall_raise(int sig);

int ocall_sched_yield();

int ocall_pthread_rwlock_init([out]void **rwlock, [user_check]void *attr);
int ocall_pthread_rwlock_destroy([user_check]void *rwlock);
int ocall_pthread_rwlock_rdlock([user_check]void *rwlock);
int ocall_pthread_rwlock_wrlock([user_check]void *rwlock);
int ocall_pthread_rwlock_unlock([user_check]void *rwlock);

```

```

int ocall_get_errno();

/* sockets */
int ocall_accept(int sockfd, [in, size=addr_size]void *addr,
                    [in, size=4] uint32_t *addrlen, uint32_t addr_size);
int ocall_bind(int sockfd,
[in, size=addrlen]const void *addr,
                    uint32_t addrlen);
int ocall_connect(int sockfd, [in, size=addrlen]void *addr, uint32_t addrlen);
int ocall_getsockname(int sockfd, [out, size=addr_size]void *addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
int ocall_getpeername(int sockfd, [out, size=addr_size]void *addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
int ocall_getsockopt(int sockfd, int level, int optname,
                    [out, size=val_buf_size]void *val_buf,
                    unsigned int val_buf_size,
                    [in, out, size=4]void *len_buf);
int ocall_listen(int sockfd, int backlog);
int ocall_recv(int sockfd, [out, size=len]void *buf, size_t len, int flags);
ssize_t ocall_recvfrom(int sockfd, [out, size=len]void *buf, size_t len, int flags,
                    [out,
size=addr_size]void *src_addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
ssize_t ocall_recvmsg(int sockfd,
                    [in, out, size=msg_buf_size]void *msg_buf,
                    unsigned int msg_buf_size,
                    int flags);
int ocall_send(int sockfd, [in, size=len]const void *buf, size_t len, int flags);
ssize_t ocall_sendto(int sockfd, [in, size=len]const void *buf, size_t len, int flags,
                    [in, size=addrlen]void *dest_addr, uint32_t addrlen);
ssize_t ocall_sendmsg(int sockfd,
                    [in, size=msg_buf_size]void *msg_buf,
                    unsigned int msg_buf_size,
                    int flags);
int ocall_setsockopt(int sockfd, int level, int optname,
                    [in, size=optlen]void *optval,
                    unsigned int optlen);

int
ocall_shutdown(int sockfd, int how);
    int ocall_socket(int domain, int type, int protocol);
};
};
#####
# LICENSE.snappy covers files: snappy.c, snappy.h, snappy_compat.h #
# originally retrieved from http://github.com/andikleen/snappy-c #
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#####

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parts of src/rdmurmur2.c: git@github.com:abandoned/murmur2.git

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1.119 lua 04dca791

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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src/rdxxhash.[ch] src/lz4*.ch: [git@github.com:lz4/lz4](https://github.com/lz4/lz4).git e2827775ee80d2ef985858727575df31fc60f1f3

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/*

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*/

```
enclave {  
    include "stdint.h"  
    include "stdbool.h"  
    include "unistd.h"
```



```

untrusted {
    int ocall_open([in, string]const char *pathname, int flags,
        bool has_mode, unsigned mode);
    int ocall_openat(int dirfd,
        [in, string]const char *pathname, int flags,
        bool has_mode, unsigned mode);
    int ocall_close(int fd);
    ssize_t ocall_read(int fd, [out, size=read_size]void *buf,
        size_t read_size);
    off_t ocall_lseek(int fd, off_t offset, int whence);
    int ocall_ftruncate(int fd, off_t length);
    int ocall_fsync(int fd);
    int ocall_fdatasync(int fd);
    int ocall_isatty(int fd);
    void ocall_fdopendir(int fd, [out]void **p_dirp);
    /* implementation related to multiple thread */
    void *ocall_readdir([user_check]void
*dirp);
    void ocall_rewinddir([user_check]void *dirp);
    void ocall_seekdir([user_check]void *dirp, long loc);
    long ocall_telldir([user_check]void *dirp);
    int ocall_closedir([user_check]void *dirp);

    int ocall_stat([in, string]const char *pathname,
        [out, size=buf_len]void *buf,
        unsigned int buf_len);
    int ocall_fstat(int fd, [out, size=buf_len]void *buf,
        unsigned int buf_len);
    int ocall_fstatat(int dirfd, [in, string]const char *pathname,
        [out, size=buf_len]void *buf,
        unsigned int buf_len, int flags);

    int ocall_mkdirat(int dirfd, [in, string]const char *pathname,
        unsigned mode);
    int ocall_link([in, string] const char *oldpath,
        [in, string] const char *newpath);
    int ocall_linkat(int olddirfd, [in, string]const char
*oldpath,
        int newdirfd, [in, string]const char *newpath,
        int flags);
    int ocall_unlinkat(int dirfd, [in, string]const char *pathname,
        int flags);
    ssize_t ocall_readlink([in, string]const char *pathname,
        [out, size=bufsiz]char *buf,
        size_t bufsiz);
    ssize_t ocall_readlinkat(int dirfd,
        [in, string]const char *pathname,

```

```

        [out, size=bufsiz]char *buf,
        size_t bufsiz);
int ocall_renameat(int olddirfd,
        [in, string]const char *oldpath,
        int newdirfd,
        [in, string]const char *newpath);
int ocall_symlinkat([in, string]const char *target,
        int newdirfd,
        [in, string]const char *linkpath);

int ocall_ioctl(int fd, unsigned long request,
        [out, size=arg_len]void *arg,
        unsigned int arg_len);
int ocall_fcntl(int fd, int cmd);
int ocall_fcntl_long(int fd, int cmd, long arg);

int ocall_realpath([in, string]const char *path,
        [out, size=buf_len]char *buf,
        unsigned int buf_len);
int ocall_posix_fallocate(int fd, off_t offset, off_t len);
int ocall_poll([in, out, size=fds_len]void *fds, unsigned nfds,
        int timeout, unsigned int fds_len);

int ocall_getopt(int argc,
        [in, size=argv_buf_len]char *argv_buf,
        unsigned int argv_buf_len,
        [in, string]const char *optstring);
ssize_t ocall_readv(int fd,
        [in, out, size=buf_size]char *iov_buf,
        unsigned int buf_size, int iovcnt,

        bool has_offset, off_t offset);
ssize_t ocall_writev(int fd,
        [in, size=buf_size]char *iov_buf,
        unsigned int buf_size, int iovcnt,
        bool has_offset, off_t offset);

/* time clock */
int ocall_clock_gettime(unsigned clock_id,
        [out, size=tp_buf_size]void *tp_buf,
        unsigned int tp_buf_size);
int ocall_clock_getres(int clock_id,
        [out, size=res_buf_size]void *res_buf,
        unsigned int res_buf_size);
int ocall_utimensat(int dirfd, [in, string]const char *pathname,
        [in, size=times_buf_size]const void *times_buf,
        unsigned int times_buf_size, int flags);

```

```

int ocall_futimens(int fd, [in, size=times_buf_size]const void *times_buf,
                    unsigned int times_buf_size);
int ocall_clock_nanosleep(unsigned clock_id, int flags,
                          [in, size=req_buf_size]const void *req_buf,
                          unsigned int req_buf_size,
                          [out, size=rem_buf_size]void *rem_buf,
                          unsigned int rem_buf_size);

int ocall_raise(int sig);

int ocall_sched_yield();

int ocall_pthread_rwlock_init([out]void **rwlock, [user_check]void *attr);
int ocall_pthread_rwlock_destroy([user_check]void *rwlock);
int ocall_pthread_rwlock_rdlock([user_check]void *rwlock);
int ocall_pthread_rwlock_wrlock([user_check]void *rwlock);
int ocall_pthread_rwlock_unlock([user_check]void *rwlock);

int ocall_get_errno();

/* sockets */
int ocall_accept(int sockfd, [in, size=addr_size]void *addr,
                 [in, size=4] uint32_t *addrlen, uint32_t addr_size);
int ocall_bind(int sockfd,
[in, size=addrlen]const void *addr,
    uint32_t addrlen);
int ocall_connect(int sockfd, [in, size=addrlen]void *addr, uint32_t addrlen);
int ocall_getsockname(int sockfd, [out, size=addr_size]void *addr,
                      [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
int ocall_getpeername(int sockfd, [out, size=addr_size]void *addr,
                      [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
int ocall_getsockopt(int sockfd, int level, int optname,
                    [out, size=val_buf_size]void *val_buf,
                    unsigned int val_buf_size,
                    [in, out, size=4]void *len_buf);
int ocall_listen(int sockfd, int backlog);
int ocall_recv(int sockfd, [out, size=len]void *buf, size_t len, int flags);
ssize_t ocall_recvfrom(int sockfd, [out, size=len]void *buf, size_t len, int flags,
                      [out,
size=addr_size]void *src_addr,
                      [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
ssize_t ocall_recvmsg(int sockfd,
                    [in, out, size=msg_buf_size]void *msg_buf,
                    unsigned int msg_buf_size,
                    int flags);
int ocall_send(int sockfd, [in, size=len]const void *buf, size_t len, int flags);
ssize_t ocall_sendto(int sockfd, [in, size=len]const void *buf, size_t len, int flags,
                    [in, size=addrlen]void *dest_addr, uint32_t addrlen);

```

```

ssize_t ocall_sendmsg(int sockfd,
                      [in, size=msg_buf_size]void *msg_buf,
                      unsigned int msg_buf_size,
                      int flags);

int ocall_setsockopt(int sockfd, int level, int optname,
                    [in, size=optlen]void *optval,
                    unsigned int optlen);

int
ocall_shutdown(int sockfd, int how);
int ocall_socket(int domain, int type, int protocol);
};
};
#####
# LICENSE.snappy covers files: snappy.c, snappy.h, snappy_compat.h #
# originally retrieved from http://github.com/andikleen/snappy-c #
# git revision 8015f2d28739b9a6076ebaa6c53fe27bc238d219 #
#####

```

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parts of src/rdmurmur2.c: git@github.com:abandoned/murmur2.git

MurMurHash2 Library

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1.121 x-sys v0.29.0

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1.124 github.com/tetratelabs/wazero v1.9.0

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 */
 parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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parts of src/rdmurmur2.c: git@github.com:abandoned/murmur2.git

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* Version 1.1 1 Aug 2013 Mark Adler

*/

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*/

For sys/queue.h:

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* @(#)queue.h 8.5 (Berkeley) 8/20/94

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*/

enclave {

include "stdint.h"

include "stdbool.h"

include "unistd.h"

untrusted {

int ocall_open([in, string]const char *pathname, int flags,
bool has_mode, unsigned mode);

int ocall_openat(int dirfd,
[in, string]const char *pathname, int flags,
bool has_mode, unsigned mode);

int ocall_close(int fd);

ssize_t ocall_read(int fd, [out, size=read_size]void *buf,
size_t read_size);

off_t ocall_lseek(int fd, off_t offset, int whence);

int ocall_ftruncate(int fd, off_t length);

int ocall_fsync(int fd);

int ocall_fdatasync(int fd);

int ocall_isatty(int fd);

void ocall_fdopendir(int fd, [out]void **p_dirp);


```

/* implementation related to multiple thread */
void *ocall_readdir([user_check]void
*dirp);
void ocall_rewinddir([user_check]void *dirp);
void ocall_seekdir([user_check]void *dirp, long loc);
long ocall_telldir([user_check]void *dirp);
int ocall_closedir([user_check]void *dirp);

int ocall_stat([in, string]const char *pathname,
               [out, size=buf_len]void *buf,
               unsigned int buf_len);
int ocall_fstat(int fd, [out, size=buf_len]void *buf,
                unsigned int buf_len);
int ocall_fstatat(int dirfd, [in, string]const char *pathname,
                  [out, size=buf_len]void *buf,
                  unsigned int buf_len, int flags);

int ocall_mkdirat(int dirfd, [in, string]const char *pathname,
                  unsigned mode);
int ocall_link([in, string] const char *oldpath,
               [in, string] const char *newpath);
int ocall_linkat(int olddirfd, [in, string]const char
*oldpath,
                 int newdirfd, [in, string]const char *newpath,
                 int flags);
int ocall_unlinkat(int dirfd, [in, string]const char *pathname,
                  int flags);
ssize_t ocall_readlink([in, string]const char *pathname,
                       [out, size=bufsiz]char *buf,
                       size_t bufsiz);
ssize_t ocall_readlinkat(int dirfd,
                         [in, string]const char *pathname,
                         [out, size=bufsiz]char *buf,
                         size_t bufsiz);
int ocall_renameat(int olddirfd,
                   [in, string]const char *oldpath,
                   int newdirfd,
                   [in, string]const char *newpath);
int ocall_symlinkat([in ,string]const char *target,
                    int newdirfd,
                    [in, string]const char *linkpath);

int ocall_ioctl(int fd, unsigned long request,
                [out, size=arg_len]void *arg,
                unsigned int arg_len);
int ocall_fcntl(int fd, int cmd);
int ocall_fcntl_long(int fd, int cmd, long arg);

```

```

int ocall_realpath([in, string]const char *path,
                  [out, size=buf_len]char *buf,
                  unsigned int buf_len);
int ocall_posix_fallocate(int fd, off_t offset, off_t len);
int ocall_poll([in, out, size=fds_len]void *fds, unsigned nfds,
               int timeout, unsigned int fds_len);

int ocall_getopt(int argc,
                 [in, size=argv_buf_len]char *argv_buf,
                 unsigned int argv_buf_len,
                 [in, string]const char *optstring);
ssize_t ocall_readv(int fd,
                   [in, out, size=buf_size]char *iov_buf,
                   unsigned int buf_size, int iovcnt,

                   bool has_offset, off_t offset);
ssize_t ocall_writev(int fd,
                    [in, size=buf_size]char *iov_buf,
                    unsigned int buf_size, int iovcnt,
                    bool has_offset, off_t offset);

/* time clock */
int ocall_clock_gettime(unsigned clock_id,
                       [out, size=tp_buf_size]void *tp_buf,
                       unsigned int tp_buf_size);
int ocall_clock_getres(int clock_id,
                      [out, size=res_buf_size]void *res_buf,
                      unsigned int res_buf_size);
int ocall_utimensat(int dirfd, [in, string]const char *pathname,
                   [in, size=times_buf_size]const void *times_buf,
                   unsigned int times_buf_size, int flags);
int ocall_futimens(int fd, [in, size=times_buf_size]const void *times_buf,
                  unsigned int times_buf_size);
int ocall_clock_nanosleep(unsigned clock_id, int flags,
                          [in, size=req_buf_size]const void *req_buf,
                          unsigned int req_buf_size,
                          [out, size=rem_buf_size]void *rem_buf,
                          unsigned int rem_buf_size);

int ocall_raise(int sig);

int ocall_sched_yield();

int ocall_pthread_rwlock_init([out]void **rwlock, [user_check]void *attr);
int ocall_pthread_rwlock_destroy([user_check]void *rwlock);
int ocall_pthread_rwlock_rdlock([user_check]void *rwlock);
int ocall_pthread_rwlock_wrlock([user_check]void *rwlock);

```

```

int ocall_pthread_rwlock_unlock([user_check]void *rwlock);

int ocall_get_errno();

/* sockets */
int ocall_accept(int sockfd, [in, size=addr_size]void *addr,
    [in, size=4] uint32_t *addrlen, uint32_t addr_size);
int ocall_bind(int sockfd,
[in, size=addrlen]const void *addr,
    uint32_t addrlen);
int ocall_connect(int sockfd, [in, size=addrlen]void *addr, uint32_t addrlen);
int ocall_getsockname(int sockfd, [out, size=addr_size]void *addr,
    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
int ocall_getpeername(int sockfd, [out, size=addr_size]void *addr,
    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
int ocall_getsockopt(int sockfd, int level, int optname,
    [out, size=val_buf_size]void *val_buf,
    unsigned int val_buf_size,
    [in, out, size=4]void *len_buf);
int ocall_listen(int sockfd, int backlog);
int ocall_recv(int sockfd, [out, size=len]void *buf, size_t len, int flags);
ssize_t ocall_recvfrom(int sockfd, [out, size=len]void *buf, size_t len, int flags,
    [out,
size=addr_size]void *src_addr,
    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
ssize_t ocall_recvmsg(int sockfd,
    [in, out, size=msg_buf_size]void *msg_buf,
    unsigned int msg_buf_size,
    int flags);
int ocall_send(int sockfd, [in, size=len]const void *buf, size_t len, int flags);
ssize_t ocall_sendto(int sockfd, [in, size=len]const void *buf, size_t len, int flags,
    [in, size=addrlen]void *dest_addr, uint32_t addrlen);
ssize_t ocall_sendmsg(int sockfd,
    [in, size=msg_buf_size]void *msg_buf,
    unsigned int msg_buf_size,
    int flags);
int ocall_setsockopt(int sockfd, int level, int optname,
    [in, size=optlen]void *optval,
    unsigned int optlen);

int
ocall_shutdown(int sockfd, int how);
int ocall_socket(int domain, int type, int protocol);
};
};
#####
# LICENSE.snappy covers files: snappy.c, snappy.h, snappy_compat.h #
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# git revision 8015f2d28739b9a6076ebaa6c53fe27bc238d219 #

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parts of src/rdmurmur2.c: git@github.com:abandoned/murmur2.git

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1.126 github.com/google/uuid v1.6.0

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librdkafka - Apache Kafka C driver library

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regexp.c and regexp.h from <https://github.com/ccxvii/minilibs> sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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For the files wingetopt.c wingetopt.h downloaded from <https://github.com/alex85k/wingetopt>

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*/

parts of src/rdmurmur2.c: [git@github.com:abandoned/murmur2.git](https://github.com:abandoned/murmur2.git)

MurMurHash2 Library

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Source: <https://github.com/confluentinc/librdkafka>

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

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```
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```

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

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The End

1.130 golang 1.24.9

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```

```
package copyright
```

```
import (  
    "bytes"  
    "internal/testenv"  
    "io"  
    "io/fs"  
    "os"  
    "path/filepath"  
    "testing"  
)
```

```
var copyright = []byte("Copyright")
```

```
var permitted = [][]byte{  
    []byte("// Code generated by "),  
    []byte("// Code generated from "),  
    []byte("// Created by cgo -cdefs"),  
    []byte("// DO NOT EDIT\n// generated by:"),  
    []byte("// Empty assembly file"),  
    []byte("// Generated using cgo"),  
    []byte("// Original source:\n/\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5  
    []byte("// created by cgo -cdefs"),  
    []byte("// go run mkasm.go"),  
    []byte("// mkerrors"),  
    []byte("// mksys"),  
    []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go  
}
```

```
func TestCopyright(t *testing.T) {  
    buf := make([]byte, 2048)  
    filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,  
        d fs.DirEntry, err error) error {  
        if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {  
            return filepath.SkipDir  
        }  
        switch filepath.Ext(d.Name()) {  
        default:  
            return nil  
        case ".s", ".go":  
            // check  
        }  
    })  
}
```

```

f, err := os.Open(path)
if err != nil {
    t.Error(err)
    return nil
}
defer f.Close()
n, err := f.Read(buf)
if err != nil && err != io.EOF {
    t.Error(err)
    return nil
}
b := buf[:n]
if bytes.Contains(b, copyright) {
    return nil
}
for _, ok := range permitted {
    if bytes.HasPrefix(b, ok) {
        return nil
    }
}
t.Errorf("%s: missing copyright notice", path)
return nil
}))
}

```

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- *

*/

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```
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 *
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1.131 coreutils 8.30-3ubuntu2

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1.136 sysv-init 3.01-1ubuntu1

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1.137 kerberos 1.19.2-ubuntu0.7

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
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lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
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lib/libgss/g_process_context.c
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lib/libgss/g_rel_name.c
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lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c

lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
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1.146 intern 1.0.0

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1.147 ncurses 6.3-2ubuntu0.1

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

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-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$
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1.148 tar 1.30+dfsg-7ubuntu0.20.04.4

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Version 3, 29 June 2007

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Ty Coon, President of Vice
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator   : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
<!-- site wide top running header menu -->

<ul id="overview">
  <li class="home">
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
<h1>
```

```

    <span style="display:inline-block; vertical-align:middle">

    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
</h1>

<!-- homepage tab menu -->

<div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
</div>
</div>

<div id="page">
<div class="plain">
    <h2>The home of the GNU Modula-2 compiler</h2>
    <p>The compiler is held under the GNU Public Licence v3.</p>
    <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions. Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
web site.</p>
</div>
</div>
</body>
</html>

```

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1.150 gmp 2:6.2.1+dfsg-3ubuntu1

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```

```
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1.152 libcap-ng 0.7.9-2.2build3

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1.155 spf13-pflag 1.0.5

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1.156 x-text 0.16.0

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1.157 sed 4.8-1ubuntu2

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go-zookeeper - Native ZooKeeper client for Go

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1.160 easyjson 0.7.7

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1.162 glib 2.64.6-1~ubuntu20.04.7

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1.163 kerberos 1.20.1-2+deb12u2

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lib/krb5/kdb/kdb_convert.c
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lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
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- 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
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- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c
- lib/gssapi/mechglue/gssd_pname_to_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid_ops.c

lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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1.167 acl 2.2.53-6

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1.172 grep 3.7-1build1

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1.174 gnutls 3.7.3-4ubuntu1.7

1.174.1 Available under license :

/* Extract the last component (base name) of a file name.

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H
```

```
#include <stddef.h>
```

```
#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif
```

```
#ifdef __cplusplus
extern "C" {
#endif
```

```
/*
```

Return the address of the last file name component of FILENAME.

If FILENAME has some trailing slash(es), they are considered to be
part of the last component.

If FILENAME has no relative file name components because it is a file
system root, return the empty string.

Examples:

FILENAME	RESULT
"foo.c"	"foo.c"
"foo/bar.c"	"bar.c"
"/foo/bar.c"	"bar.c"
"foo/bar/"	"bar/"
"foo/bar/"	"bar/"
"/"	""
"//"	""
""	""

The return value is a tail of the given FILENAME; do NOT free() it! */

```
/* This function was traditionally called 'basename', but we avoid this  
function name because
```

* Various platforms have different functions in their libc.

In particular, the glibc basename(), defined in <string.h>, does
not consider trailing slashes to be part of the component:

```

FILENAME
RESULT
"foo/bar/" ""
"foo/bar//" ""
* The 'basename' command eliminates trailing slashes and for a root
produces a non-empty result:
FILENAME  RESULT
"foo/bar/" "bar"
"foo/bar//" "bar"
"/"        "/"
"//"       "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
   Typically FILENAME is the value returned by base_name or last_component.
   Act like strlen (FILENAME), except omit all trailing slashes. */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;

```

```

#ifdef __cplusplus
} /* extern "C" */
#endif

```

```

#endif /* _BASENAME_LGPL_H */
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Version 2.1, February 1999

```

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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```

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```

```
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Ty Coon, President of Vice
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1.176 xz 5.4.1-0.2

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1.178 libtasn 4.19.0-2

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Comment:

The following is additional information from Juan C. Gomez on how this license is to be interpreted:

.

Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

.
Stephen,

.
"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

.
Regards, Juan

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Comment:

After discussing this license with the OpenLDAP Foundation we received clarification on it:

.

To: Stephen Frost <sfrost@snowman.net>

Subject:

Re: OpenLDAP Licenseing issues

From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>

Date: Wed, 28 May 2003 10:55:44 -0700

Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org

In-reply-to: <20030528162613.GB8524@ns.snowman.net>

Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>

Old-return-path: <Kurt@OpenLDAP.org>

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Steven,

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The Foundation sees no reason for it to expend its limited resources seeking clarifications which

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of course, welcomed to expend time and energy seeking clarifications you think are necessary. I suggest you contact University's general counsel office (<http://www.umich.edu/~vpgc/>).

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Regards, Kurt

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1.180 websocket 1.5.10

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1.181 iconv 2.31

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Version 2, June 1991

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Version 3, 29 June 2007

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The

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1.182 libpkit 0.24.1-2

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1.183 adduser 3.118ubuntu5

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1.184 pflag 1.0.5

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1.185 gofuzz 1.2.0

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1.186 hostname 3.23

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hostname -- set the host name or show the host/domain name

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1.187 procps 3.3.16-1ubuntu2.4

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/* checkTag : validation tool for libzstd

* command :

* \$./checkTag tag

* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}

* The tag is then compared to zstd version number.

* They are compatible if first 3 digits are identical.

* Anything beyond that is free, and doesn't impact validation.

* Example : tag v1.8.1.2 is compatible with version 1.8.1

* When tag and version are not compatible, program exits with error code 1.

* When they are compatible, it exists with a code 0.

* checkTag is intended to be used in automated testing environment.

*/

1.191 pam 1.4.0-11ubuntu2.6

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1.193 zstd 1.5.4+dfsg2-4

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1.194 postgresql 15.8-0+deb12u1

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1.198 libgcrypt 1.9.4-3ubuntu3

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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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1.201 util-linux 2.34-0.1ubuntu9.6

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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1.203 lz4 1.9.2-2ubuntu0.20.04.1

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1.204 prometheus-client-model 0.5.0

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Metadata-Version: 1.1

Name: prometheus_client

Version: 0.5.0

Summary: Python client for the Prometheus monitoring system.

Home-page: https://github.com/prometheus/client_python

Author: Brian Brazil

Author-email: brian.brazil@robustperception.io

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Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.

Keywords: prometheus monitoring instrumentation client

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

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 :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: System :: Monitoring

Classifier: License :: OSI Approved :: Apache Software License

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Metadata-Version: 1.1

Name: prometheus-client

Version: 0.5.0

Summary: Python client for the Prometheus monitoring system.

Home-page: https://github.com/prometheus/client_python

Author: Brian Brazil

Author-email: brian.brazil@robustperception.io

License: Apache Software License 2.0

Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.

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1.205 fasthttp 1.55.0

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1.206 shared-mime-info 1.15-1

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Version 3, 29 June 2007

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```
# COPYING.other          -*- org -*-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu

1987 James A. Woods ames!jaw

1993 Christopher Seiwald seiwald@vix.com

2000, 2002 Christopher Seiwald <seiwald@perforce.com>

2010 Steve Bennett <steveb@workware.net.au>

2020 NIIBE Yutaka <gniibe@fsij.org>

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regex/utf8.[ch] (see regex/LICENSE):

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1.210 x-net 0.27.0

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1.211 go-isatty 0.0.19

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1.212 libidn 2.3.3-1+b1

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The

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1.220 cobra 1.4.0

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1.221 debianutils 4.9.1

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1.222 kubernetes-apimachinery 0.30.1

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1.223 x-net 0.27.0

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#####

Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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##

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1.232 cdebconf 0.251ubuntu1

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

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

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1.234 attr 1:2.5.1-1build1

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.236 cdebconf 0.261ubuntu1

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CDebConf was initially written by Randolph Chung <tausq@debian.org>

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1.237 spew 1.1.2-0.20180830191138-d8f796af33cc

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1.238 libffi 3.4.4-1

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Source: <https://alioth.debian.org/projects/collab-maint/sensible-utils.git>

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Upstream-Contact: Niels Mller <nisse@lysator.liu.se>

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.
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CAMELLIA

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CAST128

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DES

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MD2

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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1.247 zlib 1:1.2.11.dfsg-2ubuntu9.2

1.247.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

No license file was found, but licenses were detected in source scan.

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html

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```
/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

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See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos

2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*

2007-2008 - Even Rouault - Remove old C style function prototypes

2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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```
/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012
```

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```
Mark Adler  madler@alumni.caltech.edu
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
```

No license file was found, but licenses were detected in source scan.

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
```

No license file was found, but licenses were detected in source scan.

```
/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
```

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/*

* gzlog.c

* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

* For conditions of distribution and use, see copyright notice in gzlog.h

* version 2.2, 14 Aug 2012

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

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/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files

<http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in .zip format, written on top

of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

No license file was found, but licenses were detected in source scan.

```
/* fitblk.c: example of fitting compressed output to a specified size
   Not copyrighted -- provided to the public domain
   Version 1.1 25 November 2004 Mark Adler */
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

No license file was found, but licenses were detected in source scan.

```
/* gzread.c -- zlib functions for reading gzip files
 * Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

No license file was found, but licenses were detected in source scan.

```
/* inftrees.h -- header to use inftrees.c
 * Copyright (C) 1995-2005, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.h

No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm

* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state

* Copyright (C) 1995-2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library

* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files

* Copyright (C) 2004-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage

* Copyright (C) 2011, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding

* Copyright (C) 1995-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library

* Copyright (C) 1995-2017 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library

* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

No license file was found, but licenses were detected in source scan.

/*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding

* Copyright (C) 1995-2017 Jean-loup Gailly

* detect_data_type() function provided freely by Cosmin Truta, 2006

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (<http://www.gdal.org/>)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

-
- * Added ZIP64 support for unzip (by Even Rouault)
 - * Added ZIP64 support for zip (by Mathias Svensson)
 - * Reverted some changed that Even Rouault did.
 - * Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
 - * Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
 - * Added BZIP Compress method for zip
 - * Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>
Zip File specification

Notes.

- * To be able to use BZip compression method in

zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt

No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer

* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function

* Copyright (C) 2004, 2010 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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3. This notice may not be removed or altered from any source distribution.

Changes

See header of unzip64.c

*/

Found in path(s):

* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access

* Copyright (C) 2005, 2012 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding

* Copyright (C) 1995-2017 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream

* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*

* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

* tables for updating the shift register in one step with three exclusive-ors

* instead of four steps with four exclusive-ors. This results in about a

* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream

* Copyright (C) 1995-2011, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

No license file was found, but licenses were detected in source scan.

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
```

No license file was found, but licenses were detected in source scan.

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
Not copyrighted -- provided to the public domain
Version 1.4 11 December 2005 Mark Adler */
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzappend -- command to append to a gzip file
```

Copyright (C) 2003, 2012 Mark Adler, all rights reserved
version 1.2, 11 Oct 2012

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
```

No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page <http://zlib.net/> which may have more recent information.
The latest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

- * <http://marknelson.us/1997/01/01/zlib-engine/>
- * win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h. Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/.

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package.
zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.
Please try to reproduce the problem with a small program and send the
corresponding source to us at zlib@gzip.org . Do not send multi-megabyte
data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or
/usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib
distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt
the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean  
./configure  
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a

single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` `#defines` in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's `contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's `contrib/puff` directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is

32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing

invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/> .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/> , which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with

the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.248 kubernetes-client 0.30.3

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1.252 libxcrypt 1:4.4.27-1

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1.253 libgpg-error 1.43-3

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

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

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

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

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

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

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

code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly

with a modified version of the library, if the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally

distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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That's all there is to it!

1.254 protobuf-go 1.34.2

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1.255 libtasn 4.16.0-2

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Version 2.1, February 1999

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- a) The modified work must itself be a software library.
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- c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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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

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b) Use a suitable shared library mechanism for linking with the

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1.257 base-passwd 3.5.47

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?RCS:

?MAKE:i_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i_quadmath:

?S: This variable conditionally defines I_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

?C:.

?H:#\$i_quadmath I_QUADMATH /**/

?H:.

?LINT:set i_quadmath

: see if this is a quadmath.h system

set quadmath.h i_quadmath

eval \$inhdr

Found in path(s):

* /perl-5.30.0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_quadmath.U

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?MAKE: -pick add \$@ %<

?S:d_strtold_l:

?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which

?S: indicates to the C program that the strtold_l() routine is available.

?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.

?C:.
?H:#\$d_strtold_l HAS_STRTOLD_L /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval \$inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtold_l.U
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?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#\$i_fenv I_FENV /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval \$inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fenv.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:

?MAKE:d_acosh: Inlibc
?MAKE: -pick add \$@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which

?S: indicates to the C program that the acosh() routine is available.

?S:.

?C:HAS_ACOSH:

?C: This symbol, if defined, indicates that the acosh routine is

?C: available to do the inverse hyperbolic cosine function.

?C:.

?H:#\$d_acosh HAS_ACOSH /**/

?H:.

?LINT:set d_acosh

: see if acosh exists

set acosh d_acosh

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_acosh.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_rint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_rint:

?S: This variable conditionally defines the HAS_RINT symbol, which

?S: indicates to the C program that the rint() routine is available.

?S:.

?C:HAS_RINT:

?C: This symbol, if defined, indicates that the rint routine is

?C: available to return the nearest integral value to x as double

?C: using the current rounding mode.

?C:.

?H:#\$d_rint HAS_RINT /**/

?H:.

?LINT:set d_rint

: see if rint exists

set rint d_rint

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_rint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysutsname.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:..
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:..
?H:#\$i_sysutsname I_SYSUTSNAME /**/
?H:..
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval \$inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysutsname.U
No license file was found, but licenses were detected in source scan.

?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS:
?MAKE:i_stdint: Inhdr
?MAKE: -pick add \$@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:..
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and
?C: should be included.
?C:..
?H:#\$i_stdint I_STDINT /**/
?H:..
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval \$inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_stdint.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/baserev.U

No license file was found, but licenses were detected in source scan.

```

/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:40 ram
* patch16: created
*
*/

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/getopt.C

No license file was found, but licenses were detected in source scan.


```

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fchdir.U

No license file was found, but licenses were detected in source scan.

```

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc

```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hypot.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_isfinitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d_isfinitel:

?S: This variable conditionally defines the HAS_ISFINITEL symbol, which

?S: indicates to the C program that the isfinitel() routine is available.

?S:.

?C:HAS_ISFINITEL:

?C: This symbol, if defined, indicates that the isfinitel routine is

?C: available to check whether a long double is finite.

?C: (non-infinity non-NaN).

?C:.

?H:#\$d_isfinitel HAS_ISFINITEL /**/

?H:.

?LINT:set d_isfinitel

: see if isfinitel exists

set isfinitel d_isfinitel

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isfinitel.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2001 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_socketmark: Inlibc

?MAKE: -pick add \$@ %<

?S:d_socketmark:

?S: This variable conditionally defines the HAS_SOCKETMARK symbol, which

?S: indicates to the C program that the socketmark() routine is available.

?S:.

?C:HAS_SOCKETMARK:

?C: This symbol, if defined, indicates that the socketmark routine is

?C: available to test whether a socket is at the out-of-band mark.

?C:.

?H:#\$d_socketmark HAS_SOCKETMARK /**/

?H:.

?LINT:set d_socketmark

: see if socketmark exists

set socketmark d_socketmark

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socketmark.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_truncl:

?S: This variable conditionally defines the HAS_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS_TRUNCL :

?C: This symbol, if defined, indicates that the truncl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d_truncl HAS_TRUNCL /**/

?H:.

?LINT:set d_truncl

: see if truncl exists

set truncl d_truncl

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_truncl.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrint:

?S: This variable conditionally defines the HAS_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrint HAS_LRINT /**/

?H:.

?LINT:set d_lrint

: see if lrint exists

set lrint d_lrint

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrint.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lroundl:

?S: This variable conditionally defines the HAS_LROUNDL symbol, which

?S: indicates to the C program that the lroundl() routine is available

?S: to return the integral value nearest to x away from zero.

?S:.

?C:HAS_LROUNDL:

?C: This symbol, if defined, indicates that the lroundl routine is

?C: available to return the nearest integral value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d_lroundl HAS_LROUNDL /**/

?H:.

?LINT:set d_lroundl

: see if lroundl exists

set lroundl d_lroundl

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lroundl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_towupper: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_towupper:
 ?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
 ?S: indicates to the C program that the towupper() routine is available.
 ?S:.
 ?C:HAS_TOWUPPER:
 ?C: This symbol, if defined, indicates that the towupper () routine is
 ?C: available to do case conversion.
 ?C:.
 ?H:#\$d_towupper HAS_TOWUPPER /**/
 ?H:.
 ?LINT:set d_towupper
 : see if towupper exists
 set towupper d_towupper
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towupper.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
 ?RCS:
 ?RCS: Copyright (c) 2000 Jarkko Hietaniemi
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_setproctitle: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_setproctitle:
 ?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
 ?S: which indicates to the C program that the setproctitle() routine
 ?S: is available.
 ?S:.
 ?C:HAS_SETPROCTITLE:
 ?C: This symbol, if defined, indicates that the setproctitle routine is
 ?C: available to set process title.
 ?C:.
 ?H:#\$d_setproctitle HAS_SETPROCTITLE /**/
 ?H:.
 ?LINT:set d_setproctitle
 : see if setproctitle exists
 set setproctitle d_setproctitle
 eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setproctitle.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_strnlen: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strnlen:

?S: This variable conditionally defines the HAS_STRNLEN symbol, which

?S: indicates to the C program that the strnlen () routine is available.

?S:.

?C:HAS_STRNLEN:

?C: This symbol, if defined, indicates that the strnlen () routine is

?C: available to check the length of a string up to a maximum.

?C:.

?H:#\$d_strnlen HAS_STRNLEN /**/

?H:.

?LINT:set d_strnlen

: see if strnlen exists

set strnlen d_strnlen

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strnlen.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_shadow.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_shadow: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_shadow:

?S: This variable conditionally defines the I_SHADOW symbol, and indicates

?S: whether a C program should include <shadow.h>.

?S:.

?C:I_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i_shadow I_SHADOW /**/

?H:.

?LINT:set i_shadow

: see if this is a shadow.h system

set shadow.h i_shadow

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_shadow.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fpgetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fpgetround:

?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()

?S: is available to get the floating point rounding mode.

?S:.

?C:HAS_FPGETROUND:

?C: This symbol, if defined, indicates that the fpgetround routine is

?C: available to get the floating point rounding mode.

?C:.

?H:#\$d_fpgetround HAS_FPGETROUND /**/

?H:.

?LINT:set d_fpgetround

: see if fpgetround exists

set fpgetround d_fpgetround

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fpgetround.U

No license file was found, but licenses were detected in source scan.

/*

* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

*

* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

*

* You may redistribute only under the terms of the Artistic Licence,

* as specified in the README file that comes with the distribution.

* You may reuse parts of this distribution only within the terms of

* that same Artistic Licence; a copy of which may be found at the root

* of the source tree for dist 4.0.

*

```
* $Log: rename.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:42 ram
* patch16: created
*
*/
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/rename.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_fp_class.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_fp_class: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_fp_class:

?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates

?S: whether a C program should include <fp_class.h>.

?S:.

?C:I_FP_CLASS:

?C: This symbol, if defined, indicates that <fp_class.h> exists and

?C: should be included.

?C:.

?H:#\$i_fp_class I_FP_CLASS /**/

?H:.

?LINT:set i_fp_class

: see if this is a fp_class.h system

set fp_class.h i_fp_class

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp_class.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lround:

?S: This variable conditionally defines the HAS_LROUND symbol, which

?S: indicates to the C program that the lround() routine is available

?S: to return the integral value nearest to x.

?S:.

?C:HAS_LROUND:

?C: This symbol, if defined, indicates that the lround routine is

?C: available to return the nearest integral value.

?C:.

?H:#\$d_lround HAS_LROUND /**/

?H:.

?LINT:set d_lround

: see if lround exists

set lround d_lround

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lround.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2009 H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_inetntop: Inlibc

?MAKE: -pick add \$@ %<

?S:d_inetntop:

?S: This variable conditionally defines the HAS_INETNTOP symbol,

?S: which indicates to the C program that the inet_ntop() function

?S: is available.

?S:.

?C:HAS_INETNTOP:

?C: This symbol, if defined, indicates that the inet_ntop() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d_inetntop HAS_INETNTOP /**/

?H:.

?LINT:set d_inetntop

: see if inet_ntop exists

set inet_ntop d_inetntop

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetntop.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lgamma_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma_r:

?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which

?S: indicates to the C program that the lgamma_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.

?C:HAS_LGAMMA_R:

?C: This symbol, if defined, indicates that the lgamma_r routine is

?C: available to do the log gamma function without using the global

?C: signgam variable.

?C:.

?H:#\$d_lgamma_r HAS_LGAMMA_R /**/

?H:.

?LINT:set d_lgamma_r

: see if lgamma_r exists

set lgamma_r d_lgamma_r

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma_r.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_ualarm: Inlibc

?MAKE: -pick add \$@ %<

?S:d_ualarm:

?S: This variable conditionally defines the HAS_UALARM symbol, which

?S: indicates to the C program that the ualarm() routine is available.

?S:.

?C:HAS_UALARM:

?C: This symbol, if defined, indicates that the ualarm routine is

?C: available to do alarms with microsecond granularity.

?C:.

?H:#\$d_ualarm HAS_UALARM /**/

?H:.

?LINT:set d_ualarm

: see if ualarm exists

set ualarm d_ualarm

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ualarm.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Nothing.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ilogb.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d_mkdttemp: Inlibc

?MAKE: -pick add \$@ %<

?S:d_mkdttemp:

?S: This variable conditionally defines the HAS_MKDTEMP symbol, which

?S: indicates to the C program that the mkdttemp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdttemp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d_mkdttemp HAS_MKDTEMP /**/

?H:.

?LINT:set d_mkdttemp

: see if mkdttemp exists

set mkdttemp d_mkdttemp

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_mkdttemp.U

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?RCS:

?MAKE:d_remquo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remquo:

?S: This variable conditionally defines the HAS_REMQUO symbol, which

?S: indicates to the C program that the remquo() routine is available.

?S:.

?C:HAS_REMQUO:

?C: This symbol, if defined, indicates that the remquo routine is

?C: available to return the remainder and part of quotient.

?C:.

?H:#\$d_remquo HAS_REMQUO /**/

?H:.

?LINT:set d_remquo

```
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remquo.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
```

```
?RCS:
```

```
?RCS: Copyright (c) 2014 H.Merijn Brand
```

```
?RCS:
```

```
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```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:i_bfd: Inhdr Hasfield
```

```
?MAKE: -pick add $@ %<
```

```
?S:i_bfd:
```

```
?S: This variable conditionally defines the I_BFD symbol, and
```

```
?S: indicates whether a C program can include <bfd.h>.
```

```
?S:.
```

```
?C:I_BFD:
```

```
?C: This symbol, if defined, indicates that <bfd.h> exists and
```

```
?C: can be included.
```

```
?C:.
```

```
?H:#$i_bfd I_BFD /**/
```

```
?H:.
```

```
?LINT:set i_bfd
```

```
: see if this is a bfd.h system
```

```
set bfd.h i_bfd
```

```
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_bfd.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
```

```
?RCS:
```

```
?RCS: You may distribute under the terms of either the GNU General Public
```

```
?RCS: License or the Artistic License, as specified in the README file.
```

```
?RCS:
```

```
?MAKE:d_finite: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_finite:
```

```
?S: This variable conditionally defines the HAS_FINITE symbol, which
```

```
?S: indicates to the C program that the finite() routine is available.
```

?S:.

?C:HAS_FINITE:

?C: This symbol, if defined, indicates that the finite routine is

?C: available to check whether a double is finite (non-infinity non-NaN).

?C:.

?H:#\$d_finite HAS_FINITE /**/

?H:.

?LINT:set d_finite

: see if finite exists

set finite d_finite

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finite.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_copysign: Inlibc

?MAKE: -pick add \$@ %<

?S:d_copysign:

?S: This variable conditionally defines the HAS_COPYSIGN symbol, which

?S: indicates to the C program that the copysign() routine is available.

?S:.

?C:HAS_COPYSIGN:

?C: This symbol, if defined, indicates that the copysign routine is

?C: available to do the copysign function.

?C:.

?H:#\$d_copysign HAS_COPYSIGN /**/

?H:.

?LINT:set d_copysign

: see if copysign exists

set copysign d_copysign

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysign.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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 ?RCS:
 ?MAKE:d_strtold: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_strtold:
 ?S: This variable conditionally defines the HAS_STRTOLD symbol, which
 ?S: indicates to the C program that the strtold() routine is available.
 ?S:.
 ?C:HAS_STRTOLD:
 ?C: This symbol, if defined, indicates that the strtold routine is
 ?C: available to convert strings to long doubles.
 ?C:.
 ?H:#\$d_strtold HAS_STRTOLD /**/
 ?H:.
 ?LINT:set d_strtold
 : see if strtold exists
 set strtold d_strtold
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtold.U
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysmount.U,v \$
 ?RCS:
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 ?RCS:
 ?MAKE:i_sysmount: Inhdr Hasfield
 ?MAKE: -pick add \$@ %<
 ?S:i_sysmount:
 ?S: This variable conditionally defines the I_SYSMOUNT symbol,
 ?S: and indicates whether a C program should include <sys/mount.h>.
 ?S:.
 ?C:I_SYS_MOUNT:
 ?C: This symbol, if defined, indicates that <sys/mount.h> exists and
 ?C: should be included.
 ?C:.
 ?H:#\$i_sysmount I_SYS_MOUNT /**/
 ?H:.
 ?LINT:set i_sysmount
 : see if this is a sys/mount.h system
 set sys/mount.h i_sysmount
 eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmount.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysuio.U,v \$

?RCS:

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?RCS:

?MAKE:i_sysuio: Inhdr

?MAKE: -pick add \$@ %<

?S:i_sysuio:

?S: This variable conditionally defines the I_SYSUIO symbol, and indicates

?S: whether a C program should include <sys/uio.h>.

?S:.

?C:I_SYSUIO:

?C: This symbol, if defined, indicates that <sys/uio.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysuio I_SYSUIO /**/

?H:.

?LINT:set i_sysuio

: see if this is a sys/uio.h system

set sys/uio.h i_sysuio

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_sysuio.U

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?RCS:

?MAKE:d_fdim: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdim:

?S: This variable conditionally defines the HAS_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d_fdim HAS_FDIM /**/

?H:.

?LINT:set d_fdim

: see if fdim exists

set fdim d_fdim

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdim.U

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?RCS:

?MAKE:d_tgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_tgamma:

?S: This variable conditionally defines the HAS_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d_lgamma.

?S:.

?C:HAS_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS_LGAMMA.

?C:.

?H:#\$d_tgamma HAS_TGAMMA /**/

?H:.

?LINT:set d_tgamma

: see if tgamma exists

set tgamma d_tgamma

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_tgamma.U

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?RCS:

?MAKE:d_atanh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atanh:

?S: This variable conditionally defines the HAS_ATANH symbol, which

?S: indicates to the C program that the atanh() routine is available.

?S:.

?C:HAS_ATANH:

?C: This symbol, if defined, indicates that the atanh routine is

?C: available to do the inverse hyperbolic tangent function.

?C:.

?H:#\$d_atanh HAS_ATANH /**/

?H:.

?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_atanh.U

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?RCS:

?MAKE:d_atolf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atolf:

?S: This variable conditionally defines the HAS_ATOLF symbol, which

?S: indicates to the C program that the atolf() routine is available.

?S:.

?C:HAS_ATOLF:

?C: This symbol, if defined, indicates that the atolf routine is

?C: available to convert strings into long doubles.

?C:.

?H:#\$d_atolf HAS_ATOLF /**/

?H:.

?LINT:set d_atolf

: see if atolf exists

set atolf d_atolf

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atolf.U

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?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_atoll: Inlibc

?MAKE: -pick add \$@ %<

?S:d_atoll:

?S: This variable conditionally defines the HAS_ATOLL symbol, which

?S: indicates to the C program that the atoll() routine is available.

?S:.

?C:HAS_ATOLL:

?C: This symbol, if defined, indicates that the atoll routine is

?C: available to convert strings into long longs.

?C:.

?H:#\$d_atoll HAS_ATOLL /**/

?H:.

?LINT:set d_atoll

: see if atoll exists

set atoll d_atoll

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atoll.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_fstatfs : Inlibc

?MAKE: -pick add \$@ %<

?S:d_fstatfs:

?S: This variable conditionally defines the HAS_FSTATFS symbol, which

?S: indicates to the C program that the fstatfs() routine is available.

?S:.

?C:HAS_FSTATFS:

?C: This symbol, if defined, indicates that the fstatfs routine is

?C: available to stat filesystems by file descriptors.

?C:.

?H:#\$d_fstatfs HAS_FSTATFS /**/

?H:.

?LINT:set d_fstatfs

: see if fstatfs exists

set fstatfs d_fstatfs

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fstatfs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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 ?RCS:
 ?MAKE:d_finitel: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_finitel:
 ?S: This variable conditionally defines the HAS_FINITEL symbol, which
 ?S: indicates to the C program that the finitel() routine is available.
 ?S:.
 ?C:HAS_FINITEL:
 ?C: This symbol, if defined, indicates that the finitel routine is
 ?C: available to check whether a long double is finite
 ?C: (non-infinity non-NaN).
 ?C:.
 ?H:#\$d_finitel HAS_FINITEL /**/
 ?H:.
 ?LINT:set d_finitel
 : see if finitel exists
 set finitel d_finitel
 eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finitel.U

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 ?RCS:
 ?MAKE:d_nextafter: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_nextafter:
 ?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
 ?S: is available to return the next machine representable double from
 ?S: x in direction y.
 ?S:.
 ?C:HAS_NEXTAFTER:
 ?C: This symbol, if defined, indicates that the nextafter routine is
 ?C: available to return the next machine representable double from
 ?C: x in direction y.
 ?C:.
 ?H:#\$d_nextafter HAS_NEXTAFTER /**/
 ?H:.
 ?LINT:set d_nextafter
 : see if nextafter exists
 set nextafter d_nextafter
 eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nextafter.U

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?RCS:

?MAKE:d_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erfc:

?S: This variable conditionally defines the HAS_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d_erfc HAS_ERFC /**/

?H:.

?LINT:set d_erfc

: see if erfc exists

set erfc d_erfc

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erfc.U

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?RCS:

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?RCS:

?MAKE:d_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d_writev:

?S: This variable conditionally defines the HAS_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d_writev HAS_WRITEV /**/

?H:.

?LINT:set d_writev

: see if writev exists

set writev d_writev

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_writev.U

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?RCS:

?MAKE:d_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nexttoward:

?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d_nexttoward HAS_NEXTTOWARD /**/

?H:.

?LINT:set d_nexttoward

: see if nexttoward exists

set nexttoward d_nexttoward

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nexttoward.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d_getmnt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getmnt:

?S: This variable conditionally defines the HAS_GETMNT symbol, which

?S: indicates to the C program that the getmnt() routine is available

?S: to retrieve one or more mount info blocks by filename.

?S:.

?C:HAS_GETMNT:

?C: This symbol, if defined, indicates that the getmnt routine is

?C: available to get filesystem mount info by filename.

?C:.

?H:#\$d_getmnt HAS_GETMNT /**/

?H:.

?LINT:set d_getmnt

: see if getmnt exists

set getmnt d_getmnt

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getmnt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_isinfl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_isinfl:

?S: This variable conditionally defines the HAS_ISINFL symbol, which

?S: indicates to the C program that the isinfl() routine is available.

?S:.

?C:HAS_ISINFL:

?C: This symbol, if defined, indicates that the isinfl routine is

?C: available to check whether a long double is an infinity.

?C:.

?H:#\$d_isinfl HAS_ISINFL /**/

?H:.

?LINT:set d_isinfl

: see if isinfl exists

set isinfl d_isinfl

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isinfl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS:

?MAKE:d_strtoq: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtoq:

?S: This variable conditionally defines the HAS_STRTOQ symbol, which

?S: indicates to the C program that the strtq() routine is available.

?S:.

?C:HAS_STRTOQ:

?C: This symbol, if defined, indicates that the strtq routine is

?C: available to convert strings to long longs (quads).

?C:.

?H:#\$d_strtoq HAS_STRTOQ /**/

?H:.

?LINT:set d_strtoq

: see if strtq exists

set strtq d_strtoq

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtoq.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysmode.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysmode: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysmode:

?S: This variable conditionally defines the I_SYSMODE symbol,

?S: and indicates whether a C program should include <sys/mode.h>.

?S:.

?C:I_SYSMODE:

?C: This symbol, if defined, indicates that <sys/mode.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysmode I_SYSMODE /**/

?H:.

?LINT:set i_sysmode

: see if this is a sys/mode.h system

set sys/mode.h i_sysmode

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmode.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2009 H.Merijn Brand

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_getaddrinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getaddrinfo:

?S: This variable conditionally defines the HAS_GETADDRINFO symbol,

?S: which indicates to the C program that the getaddrinfo() function

?S: is available.

?S:.

?C:HAS_GETADDRINFO:

?C: This symbol, if defined, indicates that the getaddrinfo() function

?C: is available for use.

?C:.

?H:#\$d_getaddrinfo HAS_GETADDRINFO /**/

?H:.

?LINT:set d_getaddrinfo

: see if getaddrinfo exists

set getaddrinfo d_getaddrinfo

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getaddrinfo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_hasmntopt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_hasmntopt:

?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which

?S: indicates to the C program that the hasmntopt() routine is available

?S: to query the mount options of file systems.

?S:.

?C:HAS_HASMNTOPT:

?C: This symbol, if defined, indicates that the hasmntopt routine is

?C: available to query the mount options of file systems.

?C:.

?H:#\$d_hasmntopt HAS_HASMNTOPT /**/

?H:.

?LINT:set d_hasmntopt

: see if hasmntopt exists

set hasmntopt d_hasmntopt

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hasmntopt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_mntent.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_mntent: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_mntent:

?S: This variable conditionally defines the I_MNTENT symbol, and indicates

?S: whether a C program should include <mntent.h>.

?S:.

?C:I_MNTENT:

?C: This symbol, if defined, indicates that <mntent.h> exists and

?C: should be included.

?C:.

?H:#\$i_mntent I_MNTENT /**/

?H:.

?LINT:set i_mntent

: see if this is a mntent.h system

set mntent.h i_mntent

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_mntent.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fmax: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fmax:

?S: This variable conditionally defines the HAS_FMAX symbol, which

?S: indicates to the C program that the fmax() routine is available.

?S:.

?C:HAS_FMAX:

?C: This symbol, if defined, indicates that the fmax routine is

?C: available to do the maximum function.

?C:.

?H:#\$d_fmax HAS_FMAX /**/

?H:.

?LINT:set d_fmax

: see if fmax exists

set fmax d_fmax

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmax.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_unordered: Inlibc

?MAKE: -pick add \$@ %<

?S:d_unordered:

?S: This variable conditionally defines the HAS_UNORDERED symbol, which

?S: indicates to the C program that the unordered() routine is available.

?S:.

?C:HAS_UNORDERED:

?C: This symbol, if defined, indicates that the unordered routine is

?C: available to check whether two doubles are unordered

?C: (effectively: whether either of them is NaN)

?C:.

?H:#\$d_unordered HAS_UNORDERED /**/

?H:.

?LINT:set d_unordered

: see if unordered exists

set unordered d_unordered

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unordered.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2001 Jarkko Hietaniemi
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_strftime: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_strftime:
 ?S: This variable conditionally defines the HAS_STRFTIME symbol, which
 ?S: indicates to the C program that the strftime() routine is available.
 ?S:.
 ?C:HAS_STRFTIME:
 ?C: This symbol, if defined, indicates that the strftime routine is
 ?C: available to do time formatting.
 ?C:.
 ?H:#\$d_strftime HAS_STRFTIME /**/
 ?H:.
 ?LINT:set d_strftime
 : see if strftime exists
 set strftime d_strftime
 eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strftime.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
 ?RCS:
 ?RCS: Copyright (c) 1998 Jarkko Hietaniemi
 ?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_readv: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_readv:
 ?S: This variable conditionally defines the HAS_READV symbol, which
 ?S: indicates to the C program that the readv() routine is available.
 ?S:.
 ?C:HAS_READV:
 ?C: This symbol, if defined, indicates that the readv routine is
 ?C: available to do gather reads. You will also need <sys/uio.h>
 ?C: and there I_SYSUIO.
 ?C:.
 ?H:#\$d_readv HAS_READV /**/
 ?H:.
 ?LINT:set d_readv
 : see if readv exists

```
set readv d_readv
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexp: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexp:
?S: This variable conditionally defines the HAS_FREXP symbol, which
?S: indicates to the C program that the frexp() routine is available.
?S:.
```

?C:HAS_FREXPL:

?C: This symbol, if defined, indicates that the frexpl routine is

?C: available to break a long double floating-point number into

?C: a normalized fraction and an integral power of 2.

?C:.

?H:#\$d_frexp HAS_FREXPL /**/

?H:.

?LINT:set d_frexp

: see if frexp exists

set frexp d_frexp

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_frexp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Null.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit ends up producing shell code to set all variables to ". This

?X: probably isn't necessary, but I'm paranoid. About certain things.

?X:

?MAKE:Null: Head

?MAKE: -pick add.Null \$@ %<

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Null.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_eaccess.U

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?RCS:

```
?MAKE:d_exp2: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_exp2:
```

```
?S: This variable conditionally defines the HAS_EXP2 symbol, which
```

```
?S: indicates to the C program that the exp2() routine is available.
```

```
?S:.
```

```
?C:HAS_EXP2:
```

```
?C: This symbol, if defined, indicates that the exp2 routine is
```

```
?C: available to do the 2**x function.
```

```
?C:.
```

```
?H:#$d_exp2 HAS_EXP2 /**/
```

```
?H:.
```

```
?LINT:set d_exp2
```

```
: see if exp2 exists
```

```
set exp2 d_exp2
```

```
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_exp2.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_libutil.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:
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 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:i_libutil: Inhdr Hasfield
 ?MAKE: -pick add \$@ %<
 ?S:i_libutil:
 ?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
 ?S: whether a C program should include <libutil.h>.
 ?S:.
 ?C:I_LIBUTIL:
 ?C: This symbol, if defined, indicates that <libutil.h> exists and
 ?C: should be included.
 ?C:.
 ?H:#\$i_libutil I_LIBUTIL /**/
 ?H:.
 ?LINT:set i_libutil
 : see if this is a libutil.h system
 set libutil.h i_libutil
 eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_libutil.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$
 ?RCS:
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 ?RCS:
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 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_sqrtl: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_sqrtl:
 ?S: This variable conditionally defines the HAS_SQRTL symbol, which
 ?S: indicates to the C program that the sqrtl() routine is available.
 ?S:.
 ?C:HAS_SQRTL:
 ?C: This symbol, if defined, indicates that the sqrtl routine is
 ?C: available to do long double square roots.
 ?C:.
 ?H:#\$d_sqrtl HAS_SQRTL /**/
 ?H:.
 ?LINT:set d_sqrtl
 : see if sqrtl exists
 set sqrtl d_sqrtl
 eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sqrtl.U

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?RCS:

?MAKE:d_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fdclose:

?S: This variable conditionally defines the HAS_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d_fdclose HAS_FDCLOSE /**/

?H:.

?LINT:set d_fdclose

: see if fdclose exists

set fdclose d_fdclose

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdclose.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_fp.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_fp: Inhdr

?MAKE: -pick add \$@ %<

?S:i_fp:

?S: This variable conditionally defines the I_FP symbol, and indicates

?S: whether a C program should include <fp.h>.

?S:.

?C:I_FP:

?C: This symbol, if defined, indicates that <fp.h> exists and

?C: should be included.

?C:.

?H:#\$i_fp I_FP /**/

```
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getcwd.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'. This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.
```

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:d_round: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_round:
```

?S: This variable conditionally defines the HAS_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

```
?S:.
```

```
?C:HAS_ROUND:
```

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

```
?C:.
```

```
?H:#$d_round HAS_ROUND /**/
```

```
?H:.
```

```
?LINT:set d_round
```

```
: see if round exists
```

```
set round d_round
```

```
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_round.U
No license file was found, but licenses were detected in source scan.
```

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:
 ?MAKE:d_isnanl: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_isnanl:
 ?S: This variable conditionally defines the HAS_ISNANL symbol, which
 ?S: indicates to the C program that the isnanl() routine is available.
 ?S:.
 ?C:HAS_ISNANL:
 ?C: This symbol, if defined, indicates that the isnanl routine is
 ?C: available to check whether a long double is a NaN.
 ?C:.
 ?H:#\$d_isnanl HAS_ISNANL /**/
 ?H:.
 ?LINT:set d_isnanl
 : see if isnanl exists
 set isnanl d_isnanl
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isnanl.U
 No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_logb: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_logb:
 ?S: This variable conditionally defines the HAS_LOGB symbol, which
 ?S: indicates to the C program that the logb() routine is available
 ?S: to extract the exponent of x.
 ?S:.
 ?C:HAS_LOGB:
 ?C: This symbol, if defined, indicates that the logb routine is
 ?C: available to do the logb function.
 ?C:.
 ?H:#\$d_logb HAS_LOGB /**/
 ?H:.
 ?LINT:set d_logb
 : see if logb exists
 set logb d_logb
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_logb.U
 No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d_fmin: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fmin:

?S: This variable conditionally defines the HAS_FMIN symbol, which

?S: indicates to the C program that the fmin() routine is available.

?S:.

?C:HAS_FMIN:

?C: This symbol, if defined, indicates that the fmin routine is

?C: available to do the minimum function.

?C:.

?H:#\$d_fmin HAS_FMIN /**/

?H:.

?LINT:set d_fmin

: see if fmin exists

set fmin d_fmin

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmin.U

No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/metaconfig.html

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_netdb.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_netdb: Inhdr

?MAKE: -pick add \$@ %<

?S:i_netdb:

?S: This variable conditionally defines the I_NETDB symbol, and indicates

?S: whether a C program should include <netdb.h>.

?S:.

?C:I_NETDB:

?C: This symbol, if defined, indicates that <netdb.h> exists and

?C: should be included.

?C:.

?H:#\$i_netdb I_NETDB /**/

?H:.

```
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_netdb.U
```

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```
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?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_recvmsg.U
```

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```
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?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
```

?S: indicates to the C program that the unsetenv () routine is available.

?S:.

?C:HAS_UNSETENV:

?C: This symbol, if defined, indicates that the unsetenv () routine is

?C: available for use.

?C:.

?H:#\$d_unsetenv HAS_UNSETENV /**/

?H:.

?LINT:set d_unsetenv

: see if unsetenv exists

set unsetenv d_unsetenv

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unsetenv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_qgcvt: Inlibc

?MAKE: -pick add \$@ %<

?S:d_qgcvt:

?S: This variable conditionally defines the HAS_QGCVT symbol, which

?S: indicates to the C program that the qgcvt() routine is available.

?S:.

?C:HAS_QGCVT:

?C: This symbol, if defined, indicates that the qgcvt routine is

?C: available to convert long doubles ("quad doubles") to strings.

?C: This is a low-level routine hopefully faster than sprintf.

?C:.

?H:#\$d_qgcvt HAS_QGCVT /**/

?H:.

?LINT:set d_qgcvt

: see if qgcvt exists

set qgcvt d_qgcvt

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_qgcvt.U

No license file was found, but licenses were detected in source scan.

/*

* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

```

*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:45 ram
* patch16: created
*
*/

```

Found in path(s):

```

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: i_ieeeftp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeeftp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeeftp:
?S: This variable conditionally defines the I_IEEEFTP symbol, and indicates
?S: whether a C program should include <ieeeftp.h>.
?S:.
?C:I_IEEEFTP:
?C: This symbol, if defined, indicates that <ieeeftp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeeftp I_IEEEFTP /**/
?H:.
?LINT:set i_ieeeftp
: see if this is a ieeeftp.h system
case "$i_ieeeftp" in
" ) set ieeeftp.h i_ieeeftp
    eval $inhdr
    ;;
esac

```

Found in path(s):

```

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ieeeftp.U

```


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```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available. If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbnl.U

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```
?RCS: $Id: i_sunmath.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
```

?H:#\$i_sunmath I_SUNMATH /**/

?H:.

?LINT:set i_sunmath

: see if this is a sunmath.h system

set sunmath.h i_sunmath

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sunmath.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fsync: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fsync:

?S: This variable conditionally defines the HAS_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:.

?C:HAS_FSYNC:

?C: This symbol, if defined, indicates that the fsync routine is

?C: available to write a file's modified data and attributes to

?C: permanent storage.

?C:.

?H:#\$d_fsync HAS_FSYNC /**/

?H:.

?LINT:set d_fsync

: see if fsync exists

set fsync d_fsync

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fsync.U

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?RCS:

?MAKE:d_nan: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nan:

?S: This variable conditionally defines HAS_NAN if nan() is

?S: available to generate NaN.

?S:.
 ?C:HAS_NAN:
 ?C: This symbol, if defined, indicates that the nan routine is
 ?C: available to generate NaN.
 ?C:.
 ?H:#\$d_nan HAS_NAN /**/
 ?H:.
 ?LINT:set d_nan
 : see if nan exists
 set nan d_nan
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nan.U
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 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_expm1: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_expm1:
 ?S: This variable conditionally defines the HAS_EXPM1 symbol, which
 ?S: indicates to the C program that the expm1() routine is available.
 ?S:.
 ?C:HAS_EXPM1:
 ?C: This symbol, if defined, indicates that the expm1 routine is
 ?C: available to do the exp(x) - 1 when x is near 1 function.
 ?C:.
 ?H:#\$d_expm1 HAS_EXPM1 /**/
 ?H:.
 ?LINT:set d_expm1
 : see if expm1 exists
 set expm1 d_expm1
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_expm1.U
 No license file was found, but licenses were detected in source scan.

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 ?RCS:
 ?MAKE:d_clearenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d_clearenv:

?S: This variable conditionally defines the HAS_CLEARENV symbol, which

?S: indicates to the C program that the clearenv () routine is available.

?S:.

?C:HAS_CLEARENV:

?C: This symbol, if defined, indicates that the clearenv () routine is

?C: available for use.

?C:.

?H:#\$d_clearenv HAS_CLEARENV /**/

?H:.

?LINT:set d_clearenv

: see if clearenv exists

set clearenv d_clearenv

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_clearenv.U

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?RCS:

?MAKE:d_localeconv_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_localeconv_l:

?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which

?S: indicates to the C program that the localeconv_l() routine is available.

?S:.

?C:HAS_LOCALECONV_L:

?C: This symbol, if defined, indicates that the localeconv_l routine is

?C: available to query certain information about a locale.

?C:.

?H:#\$d_localeconv_l HAS_LOCALECONV_L /**/

?H:.

?LINT:set d_localeconv_l

: see if localeconv_l exists

set localeconv_l d_localeconv_l

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_localeconv_l.U

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```
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?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_timegm.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fma.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS:

?MAKE:d_socks5_init: Inlibc

?MAKE: -pick add \$@ %<

?S:d_socks5_init:

?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which

?S: indicates to the C program that the socks5_init() routine is available.

?S:.

?C:HAS_SOCKS5_INIT:

?C: This symbol, if defined, indicates that the socks5_init routine is

?C: available to initialize SOCKS 5.

?C:.

?H:#\$d_socks5_init HAS_SOCKS5_INIT /**/

?H:.

?LINT:set d_socks5_init

: see if socks5_init exists

set socks5_init d_socks5_init

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socks5_init.U

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?RCS:

?MAKE:d_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d_scalbn:

?S: This variable conditionally defines the HAS_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is

?C: available to multiply floating-point number by integral power

?C: of radix.

?C:.

?H:#\$d_scalbn HAS_SCALBN /**/

?H:.

?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbn.U
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?RCS:

?MAKE:d_erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d_erf:

?S: This variable conditionally defines the HAS_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d_erf HAS_ERF /**/

?H:.

?LINT:set d_erf

: see if erf exists

set erf d_erf

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erf.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_ustat.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_ustat: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_ustat:

?S: This variable conditionally defines the I_USTAT symbol, and indicates

?S: whether a C program should include <ustat.h>.

?S:.

?C:I_USTAT:

?C: This symbol, if defined, indicates that <ustat.h> exists and

?C: should be included.

?C:.

?H:#\$i_ustat I_USTAT /**/

?H:.

?LINT:set i_ustat

: see if this is a ustat.h system

set ustat.h i_ustat

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ustat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic License; a copy of which may be found at the root

?RCS: of the source tree for dist 3.0.

?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/compline/randbits.U

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?RCS:

?MAKE:d_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lgamma:

?S: This variable conditionally defines the HAS_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d_tgamma and d_lgamma_r.

?S:.

?C:HAS_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS_TGAMMA and

?C: HAS_LGAMMA_R.

?C:.

?H:#\$d_lgamma HAS_LGAMMA /**/

?H:.

?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma.U
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?RCS:

?MAKE:d_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log2:

?S: This variable conditionally defines the HAS_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d_log2 HAS_LOG2 /**/

?H:.

?LINT:set d_log2

: see if log2 exists

set log2 d_log2

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log2.U
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_poll.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_poll: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_poll:

?S: This variable conditionally defines the I_POLL symbol, and indicates

?S: whether a C program should include <poll.h>.

?S:.

?C:I_POLL:

?C: This symbol, if defined, indicates that <poll.h> exists and

?C: should be included. (see also HAS_POLL)

?C:.

?H:#\$i_poll I_POLL /**/

?H:.

?LINT:set i_poll

: see if this is a poll.h system

set poll.h i_poll

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_poll.U

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?RCS:

?MAKE:d_asinh: Inlibc

?MAKE: -pick add \$@ %<

?S:d_asinh:

?S: This variable conditionally defines the HAS_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.

?S:.

?C:HAS_ASINH:

?C: This symbol, if defined, indicates that the asinh routine is

?C: available to do the inverse hyperbolic sine function.

?C:.

?H:#\$d_asinh HAS_ASINH /**/

?H:.

?LINT:set d_asinh

: see if asinh exists

set asinh d_asinh

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_asinh.U

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?RCS:

?MAKE:d_inetpton: Inlibc

?MAKE: -pick add \$@ %<

?S:d_inetpton:

?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.

?C:HAS_INETPTON:

?C: This symbol, if defined, indicates that the inet_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d_inetpton HAS_INETPTON /**/

?H:.

?LINT:set d_inetpton

: see if inet_pton exists

set inet_pton d_inetpton

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetpton.U

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?RCS: \$Id: i_sysvfs.U,v \$

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_sysvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_sysvfs:

?S: This variable conditionally defines the I_SYSVFS symbol,

?S: and indicates whether a C program should include <sys/vfs.h>.

?S:.

?C:I_SYS_VFS:

?C: This symbol, if defined, indicates that <sys/vfs.h> exists and

?C: should be included.

?C:.

?H:#\$i_sysvfs I_SYS_VFS /**/

?H:.

?LINT:set i_sysvfs

: see if this is a sys/vfs.h system

set sys/vfs.h i_sysvfs

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysvfs.U

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?RCS:

?MAKE:d_fegetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_fegetround:

?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is

?S: available to get the floating point rounding mode.

?S:.

?C:HAS_FEGETROUND:

?C: This symbol, if defined, indicates that the fegetround routine is

?C: available to return the macro corresponding to the current rounding

?C: mode.

?C:.

?H:#\$d_fegetround HAS_FEGETROUND /**/

?H:.

?LINT:set d_fegetround

: see if fegetround exists

set fegetround d_fegetround

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fegetround.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d_trunc:

?S: This variable conditionally defines the HAS_TRUNC symbol, which

?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.

?S:.

?C:HAS_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d_trunc HAS_TRUNC /**/

?H:.

?LINT:set d_trunc

: see if trunc exists

set trunc d_trunc

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysstatfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatfs.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_poll.U,v $
?RCS:
?RCS: Copyright (c) 2001 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO /**/
?H:.
```

```
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_langinfo.U
No license file was found, but licenses were detected in source scan.
```

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d_lrintl:

?S: This variable conditionally defines the HAS_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is

?C: available to return the integral value closest to a long double

?C: (according to the current rounding mode).

?C:.

?H:#\$d_lrintl HAS_LRINTL /**/

?H:.

?LINT:set d_lrintl

: see if lrintl exists

set lrintl d_lrintl

eval \$inlibc

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrintl.U
No license file was found, but licenses were detected in source scan.
```

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?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d_dup3: Inlibc

?MAKE: -pick add \$@ %<

?S:d_dup3:

?S: This variable conditionally defines HAS_DUP3 if dup3() is

?S: available to duplicate file descriptors.

?S:.

?C:HAS_DUP3:

?C: This symbol, if defined, indicates that the dup3 routine is

?C: available to duplicate file descriptors.

?C:.

?H:#\$d_dup3 HAS_DUP3 /**/

?H:.

?LINT:set d_dup3

: see if dup3 exists

set dup3 d_dup3

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_dup3.U

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?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_getitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getitimer:

?S: This variable conditionally defines the HAS_GETITIMER symbol, which

?S: indicates to the C program that the getitimer() routine is available.

?S:.

?C:HAS_GETITIMER:

?C: This symbol, if defined, indicates that the getitimer routine is

?C: available to return interval timers.

?C:.

?H:#\$d_getitimer HAS_GETITIMER /**/

?H:.

?LINT:set d_getitimer

: see if getitimer exists

set getitimer d_getitimer

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getitimer.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2003 Jarkko Hietaniemi

?RCS:
 ?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_copysignl: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_copysignl:
 ?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
 ?S: indicates to the C program that the copysignl() routine is available.
 ?S: If aintl is also present we can emulate modfl.
 ?S:.
 ?C:HAS_COPYSIGNL:
 ?C: This symbol, if defined, indicates that the copysignl routine is
 ?C: available. If aintl is also present we can emulate modfl.
 ?C:.
 ?H:#\$d_copysignl HAS_COPYSIGNL /**/
 ?H:.
 ?LINT:set d_copysignl
 : see if copysignl exists
 set copysignl d_copysignl
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysignl.U
 No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_llrint: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_llrint:
 ?S: This variable conditionally defines the HAS_LLRINT symbol, which
 ?S: indicates to the C program that the llrint() routine is available
 ?S: to return the long long value closest to a double (according
 ?S: to the current rounding mode).
 ?S:.
 ?C:HAS_LLRINT:
 ?C: This symbol, if defined, indicates that the llrint routine is
 ?C: available to return the long long value closest to a double
 ?C: (according to the current rounding mode).
 ?C:.
 ?H:#\$d_llrint HAS_LLRINT /**/
 ?H:.
 ?LINT:set d_llrint
 : see if llrint exists
 set llrint d_llrint
 eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llrint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_crypt.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i_crypt: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i_crypt:

?S: This variable conditionally defines the I_CRYPT symbol, and indicates

?S: whether a C program should include <crypt.h>.

?S:.

?C:I_CRYPT:

?C: This symbol, if defined, indicates that <crypt.h> exists and

?C: should be included.

?C:.

?H:#\$i_crypt I_CRYPT /**/

?H:.

?LINT:set i_crypt

: see if this is a crypt.h system

set crypt.h i_crypt

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_crypt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_fseeko: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d_fseeko:

?S: This variable conditionally defines the HAS_FSEEKO symbol, which

?S: indicates to the C program that the fseeko() routine is available.

?S:.

?C:HAS_FSEEKO:

?C: This symbol, if defined, indicates that the fseeko routine is

?C: available to fseek beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d_fseeko HAS_FSEEKO /**/

?H:.

?LINT:set d_fseeko

: see if fseeko exists

set fseeko d_fseeko

eval \$inlibc

case "\$longsize" in

8) echo "(Your long is 64 bits, so you could use fseek.)" ;;

esac

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fseeko.U

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?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d_sendmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d_sendmsg:

?S: This variable conditionally defines the HAS_SENDMSG symbol, which

?S: indicates to the C program that the sendmsg() routine is available.

?S:.

?C:HAS_SENDMSG:

?C: This symbol, if defined, indicates that the sendmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d_sendmsg HAS_SENDMSG /**/

?H:.

?LINT:set d_sendmsg

: see if sendmsg exists

set sendmsg d_sendmsg

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sendmsg.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_setitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d_setitimer:

?S: This variable conditionally defines the HAS_SETITIMER symbol, which

?S: indicates to the C program that the setitimer() routine is available.

?S:.

?C:HAS_SETITIMER:

?C: This symbol, if defined, indicates that the setitimer routine is

?C: available to set interval timers.

?C:.

?H:#\$d_setitimer HAS_SETITIMER /**/

?H:.

?LINT:set d_setitimer

: see if setitimer exists

set setitimer d_setitimer

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setitimer.U

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?RCS:

?MAKE:d_llround: Inlibc

?MAKE: -pick add \$@ %<

?S:d_llround:

?S: This variable conditionally defines the HAS_LLROUND symbol, which

?S: indicates to the C program that the llround() routine is available

?S: to return the long long value nearest to x.

?S:.

?C:HAS_LLROUND:

?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.

?C:.

?H:#\$d_llround HAS_LLROUND /**/

?H:.

?LINT:set d_llround

: see if llround exists

set llround d_llround

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llround.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2003 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_aintl.U

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Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/files/Jmake.tmpl

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
```

?S: indicates to the C program that the ftello() routine is available.

?S:.

?C:HAS_FTELLO:

?C: This symbol, if defined, indicates that the ftello routine is

?C: available to ftell beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d_ftello HAS_FTELLO /**/

?H:.

?LINT:set d_ftello

: see if ftello exists

set ftello d_ftello

eval \$inlibc

case "\$longsize" in

8) echo "(Your long is 64 bits, so you could use ftell.)" ;;

esac

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ftello.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_getnameinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d_getnameinfo:

?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,

?S: which indicates to the C program that the getnameinfo() function

?S: is available.

?S:.

?C:HAS_GETNAMEINFO:

?C: This symbol, if defined, indicates that the getnameinfo() function

?C: is available for use.

?C:.

?H:#\$d_getnameinfo HAS_GETNAMEINFO /**/

?H:.

?LINT:set d_getnameinfo

: see if getnameinfo exists

set getnameinfo d_getnameinfo

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getnameinfo.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_syslog.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_syslog.U

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:47 ram
* patch16: created
*
*/
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/setsid.C

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d_nearbyint:

?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()

?S: is available to return the integral value closest to (according to

?S: the current rounding mode) to x.

?S:.

?C:HAS_NEARBYINT:

?C: This symbol, if defined, indicates that the nearbyint routine is

?C: available to return the integral value closest to (according to

?C: the current rounding mode) to x.

?C:.

?H:#\$d_nearbyint HAS_NEARBYINT /**/

?H:.

?LINT:set d_nearbyint

: see if nearbyint exists

set nearbyint d_nearbyint

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nearbyint.U

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?RCS:

?MAKE:d_log1p: Inlibc

?MAKE: -pick add \$@ %<

?S:d_log1p:

?S: This variable conditionally defines the HAS_LOG1P symbol, which

?S: indicates to the C program that the logp1() routine is available

?S: to compute $\log(1 + x)$ for values of x close to zero.

?S:.

?C:HAS_LOG1P:

?C: This symbol, if defined, indicates that the log1p routine is

?C: available to do the logarithm of 1 plus argument function.

?C:.

?H:#\$d_log1p HAS_LOG1P /**/

?H:.

?LINT:set d_log1p

: see if log1p exists

set log1p d_log1p

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log1p.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2019 Karl Williamson

?RCS:

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?RCS:

?MAKE:d_towlower: Inlibc

?MAKE: -pick add \$@ %<

?S:d_towlower:

?S: This variable conditionally defines the HAS_TOWLOWER symbol, which

?S: indicates to the C program that the towlower() routine is available.

?S:.

?C:HAS_TOWLOWER:

?C: This symbol, if defined, indicates that the towlower () routine is

?C: available to do case conversion.

?C:.

?H:#\$d_towlower HAS_TOWLOWER /**/

?H:.

?LINT:set d_towlower

: see if towlower exists

set towlower d_towlower

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towlower.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS:

?MAKE:d_strtod_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d_strtod_l:

?S: This variable conditionally defines the HAS_STRTOD_L symbol, which

?S: indicates to the C program that the strtod_l() routine is available.

?S:.

?C:HAS_STRTOD_L:

?C: This symbol, if defined, indicates that the strtod_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d_strtod_l HAS_STRTOD_L /**/

?H:.

?LINT:set d_strtod_l

: see if strtod_l exists

set strtod_l d_strtod_l

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtod_l.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d_accessx: Inlibc

?MAKE: -pick add \$@ %<

?S:d_accessx:

?S: This variable conditionally defines the HAS_ACCESSX symbol, which

?S: indicates to the C program that the accessx() routine is available.

?S:.

?C:HAS_ACCESSX :

?C: This symbol, if defined, indicates that the accessx routine is

?C: available to do extended access checks.

?C:.

?H:#\$d_accessx HAS_ACCESSX /**/

?H:.

?LINT:set d_accessx

: see if accessx exists

set accessx d_accessx

eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_accessx.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_shadow.U,v \$

?RCS:

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?RCS:
 ?MAKE:i_prot: Inhdr Hasfield
 ?MAKE: -pick add \$@ %<
 ?S:i_prot:
 ?S: This variable conditionally defines the I_PROT symbol, and indicates
 ?S: whether a C program should include <prot.h>.
 ?S:..
 ?C:I_PROT:
 ?C: This symbol, if defined, indicates that <prot.h> exists and
 ?C: should be included.
 ?C:..
 ?H:#\$i_prot I_PROT /**/
 ?H:..
 ?LINT:set i_prot
 : see if this is a prot.h system
 set prot.h i_prot
 eval \$inhdr

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_prot.U
 No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public
 ?RCS: License or the Artistic License, as specified in the README file.
 ?RCS:
 ?MAKE:d_llroundl: Inlibc
 ?MAKE: -pick add \$@ %<
 ?S:d_llroundl:
 ?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
 ?S: indicates to the C program that the llroundl() routine is available
 ?S: to return the long long value nearest to x away from zero.
 ?S:..
 ?C:HAS_LLROUNDL:
 ?C: This symbol, if defined, indicates that the llroundl routine is
 ?C: available to return the nearest long long value away from zero of
 ?C: the long double argument value.
 ?C:..
 ?H:#\$d_llroundl HAS_LLROUNDL /**/
 ?H:..
 ?LINT:set d_llroundl
 : see if llroundl exists
 set llroundl d_llroundl
 eval \$inlibc

Found in path(s):
 * /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llroundl.U
 No license file was found, but licenses were detected in source scan.

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?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add \$@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#\$d_getfsstat HAS_GETFSSTAT /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval \$inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getfsstat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i_sysstatvfs.U,v \$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add \$@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#\$i_sysstatvfs I_SYS_STATVFS /**/
?H:.
?LINT:set i_sysstatvfs

: see if this is a sys/statvfs.h system

set sys/statvfs.h i_sysstatvfs

eval \$inhdr

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatvfs.U

No license file was found, but licenses were detected in source scan.

/*

* \$Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram \$

*

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*

* Original Author: Larry Wall <lwall@netlabs.com>

*

* \$Log: dup2.C,v \$

* Revision 3.0.1.1 1994/01/24 13:58:37 ram

* patch16: created

*

*/

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/dup2.C

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?RCS:

?MAKE:d_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d_remainder:

?S: This variable conditionally defines the HAS_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

?H:#\$d_remainder HAS_REMAINDER /**/

?H:.

?LINT:set d_remainder

: see if remainder exists

```
set remainder d_remainder
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remainder.U

1.259 kubernetes-klog 2.130.1

1.259.1 Available under license :

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1.260 gnutls 3.6.13-2ubuntu1.11

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Version 2.1, February 1999

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1.265 sysv-init 2.96-2.1ubuntu1

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

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1.269 swag 0.23.0

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael

Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtislav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem

Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbess, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron

Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo

Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez,
Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas

Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.271 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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1.273 selinux 3.0-1build2

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Julian Seward, jseward@acm.org

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It is safest to

attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

Gnomovision version 69, Copyright (C) 19xx name of author
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims
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program 'Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

That's all there is to it!

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when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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You should also get your employer (if you work as a programmer) or your
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necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!
#!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 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) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}

```

1.277 zlib 1.2.11.dfsg-2ubuntu1.5

1.277.1 Available under license :

No license file was found, but licenses were detected in source scan.

```

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
 * Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 * Version 1.7 12 August 2012 Mark Adler */

```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

No license file was found, but licenses were detected in source scan.

```

/* gzwrite.c -- zlib functions for writing gzip files
 * Copyright (C) 2004-2017 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

No license file was found, but licenses were detected in source scan.

```

/* inffast.h -- header to use inffast.c
 * Copyright (C) 1995-2003, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html

No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/* inflate.c -- zlib decompression

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface

* Copyright (C) 1995-2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c

No license file was found, but licenses were detected in source scan.

/* gzlog.h

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version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

No license file was found, but licenses were detected in source scan.

```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
```

No license file was found, but licenses were detected in source scan.

```
/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
```

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

```
*/
```

No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson (<http://result42.com>)

For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/*

* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h

(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in `.zip` format, written on top of zlib by Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com), is available in the `contrib/minizip` directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

No license file was found, but licenses were detected in source scan.

```
/* fitblk.c: example of fitting compressed output to a specified size
   Not copyrighted -- provided to the public domain
   Version 1.1 25 November 2004 Mark Adler */
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

No license file was found, but licenses were detected in source scan.

```
/* gzread.c -- zlib functions for reading gzip files
 * Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

No license file was found, but licenses were detected in source scan.

```
/* inftrees.h -- header to use inftrees.c
 * Copyright (C) 1995-2005, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

No license file was found, but licenses were detected in source scan.

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm

* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

No license file was found, but licenses were detected in source scan.

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

No license file was found, but licenses were detected in source scan.

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

No license file was found, but licenses were detected in source scan.

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

No license file was found, but licenses were detected in source scan.

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html>)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.

All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (<http://www.gdal.org/>)

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

- * Added ZIP64 support for unzip (by Even Rouault)
- * Added ZIP64 support for zip (by Mathias Svensson)
- * Reverted some changes that Even Rouault did.
- * Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
- * Added unzip patch for BZIP Compression method (patch created by Daniel Borca)
- * Added BZIP Compression method for zip
- * Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>
Zip File specification

Notes.

- * To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt

No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer

* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function

* Copyright (C) 2004, 2010 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64

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Modifications for Zip64 support on both zip and unzip

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For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access

* Copyright (C) 2005, 2012 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

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/* inffast.c -- fast decoding

* Copyright (C) 1995-2017 Mark Adler

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*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

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/* crc32.c -- compute the CRC-32 of a data stream

* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*

* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

* tables for updating the shift register in one step with three exclusive-ors

* instead of four steps with four exclusive-ors. This results in about a

* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

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/* adler32.c -- compute the Adler-32 checksum of a data stream

* Copyright (C) 1995-2011, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

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/* zutil.h -- internal interface and configuration of the compression library

* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

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/* gzguts.h -- zlib internal header definitions for gz* operations

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

* For conditions of distribution and use, see copyright notice in zlib.h

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

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/* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler */

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

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/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

3. Where can I get a Visual Basic interface to zlib?

See

- * <http://marknelson.us/1997/01/01/zlib-engine/>

- * win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h. Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/.

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package.
zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.
Please try to reproduce the problem with a small program and send the
corresponding source to us at zlib@gzip.org . Do not send multi-megabyte
data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or
/usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib
distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt
the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean  
./configure  
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` `#defines` in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes

in zlib.h as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is

32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/> .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/> , which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate

specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.278 reflect2 1.0.2

1.278.1 Available under license :

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Version 2.0, January 2004

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1.279 go-toml 1.9.4

1.279.1 Available under license :

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localtime.go, localtime_test.go:

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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Changes:

- * Renamed files from civil* to localtime*.
- * Package changed from civil to toml.
- * 'Local' prefix added to all structs.

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1.283 gotils 0.0.0-20240704082632-aef3928b8a38

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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, whether or not they are linked directly with the Library itself.

^L

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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.

^L

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

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

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

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^L

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

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

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

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

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

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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

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

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

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

clarification of the licensing that was already in place.=20

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan

wrote:

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

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

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

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library

to dictact to application writes what license they should

- > be using.
- > thus LGPL-2.1 enters to fill this void.
- > -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

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

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

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

I would like to see it under LGPL as well. I

think it is in everyone's

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

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

> > bit of
> > additional
code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

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

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

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

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

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

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

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

From

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

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

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

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

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

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

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623

for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])

by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)

Received: from

[82.68.43.14] (helo=[192.168.1.3])

by rutherford.zen.co.uk with esmtp (Exim 4.50)

id 1IcOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000

Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

References: <1190922867.3457.147.camel@localhost.localdomain>

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>

<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>

Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed

Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>

Content-Transfer-Encoding: 7bit

From: Alec Muffett <alecm@crypticide.com>

Subject: Re: cracklib license

Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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

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

Happy now? :-)

-a

1.286 x-sys 0.29.0

1.286.1 Available under license :

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1.287 golang-jwt 4.5.0

1.287.1 Available under license :

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1.288 sensible-utils 0.0.17

1.288.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: sensible-utils

Source: <https://salsa.debian.org/debian/sensible-utils>

Files: *

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2012, David Prvot <taffit@debian.org>

2013, Thorsten Glaser

2017, Jrmy Bobbio

2017, Ximin Luo

2017- Bastien Roucaris <rouca@debian.org>

License: GPL-2+

Files: sensible-editor*

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2007 Jari Aalto

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2017- Bastien Roucaris <rouca@debian.org>

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2007 Jaari

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License: GPL-2+

Files: man/Makefile.am

man/utf8toman.sed

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Comment: Part of this are copied from dpkg

Files: man/po4a/cs*

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1.290 gnostic-models 0.6.8

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1.291 protobuf 1.5.4

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1.292 go-restful 3.12.1

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1.293 libyaml 0.2.5-1

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1.294 ubuntu-keyring 2021.03.26

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1.295 gzip 1.10-4ubuntu4.1

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1.296 libsemanage-common 3.3-1build2

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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
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lib/libgss/g_export_name.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c

lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c

lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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1.305 acl 2.3.1-1

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=====

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1.307 icu 66.1-2ubuntu2.1

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```
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao
```

```

## Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

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

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

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

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

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

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

## End BSD-specific setup
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```


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1.312 xxhash 0.8.1-1

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.313 e2fsprogs 1.46.5-2ubuntu1.2

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

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#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD_LIB = \$(BSDLIB_IMAGE).so.\$(BSDLIB_VERSION)

BSDLIB_PIC_FLAG = -fpic

image: \$(BSD_LIB)

\$(BSD_LIB): \$(OBS)

(cd pic; ld -Bshareable -o \$(BSD_LIB) \$(LDFLAGS_SHLIB) \$(OBS))

\$(MV) pic/\$(BSD_LIB) .

\$(RM) -f ../\$(BSD_LIB)

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o
23-June-2007

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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:

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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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1.314 kubernetes-yaml 1.4.0

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1.315 x-sync 0.7.0

1.315.1 Available under license :

name: github.com/cloudflare/circl/internal/conv

version: v1.3.7

type: go

summary:

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/internal/conv>

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notices: []

name: github.com/go-git/go-git/v5/config

version: v5.12.0

type: go

summary: Package config contains the abstraction of multiple config files

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/config>

license: apache-2.0

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- sources: v5/LICENSE

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name: github.com/go-git/gcfg/token

version: v1.5.1-0.20230307220236-3a3c6141e376

type: go

summary: Package token defines constants representing the lexical tokens of the gcfg
configuration syntax and basic operations on tokens (printing, predicates).

homepage: <https://pkg.go.dev/github.com/go-git/gcfg/token>

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name: github.com/cloudflare/circl/sign/ed25519

version: v1.3.7

type: go

summary: Package ed25519 implements Ed25519 signature scheme as described in RFC-8032.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/sign/ed25519>

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name: github.com/ProtonMail/go-crypto/ocb

version: v1.0.0

type: go

summary: 'Package ocb provides an implementation of the OCB (offset codebook) mode of operation, as described in RFC-7253 of the IRTF and in Rogaway, Bellare, Black and Krovetz - OCB: A BLOCK-CIPHER MODE OF OPERATION FOR EFFICIENT AUTHENTICATED ENCRYPTION (2003).'

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/ocb>

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notices: []

name: golang.org/x/crypto/ssh/knownhosts

version: v0.21.0

type: go

summary: Package knownhosts implements a parser for the OpenSSH known_hosts host key database, and provides utility functions for writing OpenSSH compliant known_hosts files.

homepage: <https://pkg.go.dev/golang.org/x/crypto/ssh/knownhosts>

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notices: []

name: github.com/google/go-github/v43/github

version: v43.0.0

type: go

summary: Package github provides a client for using the GitHub API.

homepage: <https://pkg.go.dev/github.com/google/go-github/v43/github>

license: bsd-3-clause

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name: github.com/go-git/go-git/v5/uts/merkletrie/index

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/uts/merkletrie/index>

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name: github.com/emirpasic/gods/lists
version: v1.18.1
type: go
summary: Package lists provides an abstract List interface.
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notices: []

name: github.com/ProtonMail/go-crypto/openpgp/ecdh

version: v1.0.0

type: go

summary: Package ecdh implements ECDH encryption, suitable for OpenPGP, as specified in RFC 6637, section 8.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/ecdh>

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notices: []

name: golang.org/x/crypto/openpgp/elgamal

version: v0.21.0

type: go

summary: Package elgamal implements ElGamal encryption, suitable for OpenPGP, as specified in "A Public-Key Cryptosystem and a Signature Scheme Based on Discrete Logarithms,"

IEEE Transactions on Information Theory, v.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/elgamal>

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name: github.com/go-git/go-git/v5/plumbing/format/index
version: v5.12.0
type: go
summary: Package index implements encoding and decoding of index format files.
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notices: []

name: github.com/ProtonMail/go-crypto/openpgp/errors

version: v1.0.0

type: go

summary: Package errors contains common error types for the OpenPGP packages.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/errors>

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notices: []

name: github.com/go-git/go-git/v5/plumbing/format/diff

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/diff>

license: apache-2.0

licenses:

- sources: v5/LICENSE

text: |2

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- sources: v5/README.md

text: Apache License Version 2.0, see [LICENSE](LICENSE)

notices: []

name: github.com/go-git/go-git/v5/plumbing/format/pktline

version: v5.12.0

type: go

summary: Package pktline implements reading payloads from pkt-lines and encoding pkt-lines from payloads.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/pktline>

license: apache-2.0

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name: github.com/go-git/go-git/v5
version: v5.12.0
type: go
summary: A highly extensible git implementation in pure Go.
homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5>
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notices: []

name: golang.org/x/crypto/blowfish

version: v0.21.0

type: go

summary: Package blowfish implements Bruce Schneier's Blowfish encryption algorithm.

homepage: <https://pkg.go.dev/golang.org/x/crypto/blowfish>

license: other

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notices: []

name: github.com/spf13/cobra

version: v1.8.0

type: go

summary: Package cobra is a commander providing a simple interface to create powerful modern CLI interfaces.

homepage: <https://pkg.go.dev/github.com/spf13/cobra>

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notices: []

name: github.com/go-git/go-billy/v5/osfs

version: v5.5.0

type: go

summary: Package osfs provides a billy filesystem for the OS.

homepage: https://pkg.go.dev/github.com/go-git/go-billy/v5/osfs

license: apache-2.0

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text: |2

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notices: []

name: github.com/cloudflare/circl/math/fp25519

version: v1.3.7

type: go

summary: Package fp25519 provides prime field arithmetic over GF(2²⁵⁵⁻¹⁹).

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/math/fp25519>

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name: github.com/go-git/go-git/v5/plumbing/filemode

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/filemode>

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name: github.com/go-git/go-git/v5/plumbing/format/idxfile

version: v5.12.0

type: go

summary: Package idxfile implements encoding and decoding of packfile idx files.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/idxfile>

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- sources: v5/README.md

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notices: []

name: golang.org/x/crypto/openpgp

version: v0.21.0

type: go

summary: Package openpgp implements high level operations on OpenPGP messages.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp>

license: other

licenses:

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text: |

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notices: []

name: github.com/go-git/go-git/v5/plumbing/format/objfile

version: v5.12.0

type: go

summary: Package objfile implements encoding and decoding of object files.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/objfile>

license: apache-2.0

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notices: []

name: github.com/go-git/go-billy/v5
version: v5.5.0
type: go
summary:
homepage: <https://pkg.go.dev/github.com/go-git/go-billy/v5>
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import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`

    SHA      *string `json:"sha,omitempty"`
    Size     *int    `json:"size,omitempty"`
    URL      *string `json:"url,omitempty"`
    HTMLURL  *string `json:"html_url,omitempty"`
    GitURL   *string `json:"git_url,omitempty"`
    DownloadURL *string `json:"download_url,omitempty"`
    Type     *string `json:"type,omitempty"`
    Content  *string `json:"content,omitempty"`
    Encoding
        *string `json:"encoding,omitempty"`
    License *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL *string `json:"url,omitempty"`

```

```

SPDXID      *string `json:"spdx_id,omitempty"`
HTMLURL     *string `json:"html_url,omitempty"`
Featured    *bool   `json:"featured,omitempty"`
Description  *string `json:"description,omitempty"`
Implementation *string `json:"implementation,omitempty"`
Permissions  *[]string `json:"permissions,omitempty"`
Conditions   *[]string `json:"conditions,omitempty"`
Limitations  *[]string `json:"limitations,omitempty"`
Body         *string `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func
(s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    var licenses []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {

```

```
return nil, resp, err
}

return license, resp, nil
}

---
name: github.com/go-git/go-git/v5/plumbing/cache
version: v5.12.0
type: go
summary:
homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/cache
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notices: []

name: github.com/ProtonMail/go-crypto/openpgp/aes/keywrap

version: v1.0.0

type: go

summary: Package keywrap is an implementation of the RFC 3394 AES key wrapping algorithm.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/aes/keywrap>

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notices: []

name: github.com/cloudflare/circl/dh/x25519

version: v1.3.7

type: go

summary: Package x25519 provides Diffie-Hellman functions as specified in RFC-7748.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/dh/x25519>

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notices: []

name: github.com/cloudflare/circl/sign

version: v1.3.7

type: go

summary: Package sign provides unified interfaces for signature schemes.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/sign>

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notices: []

name: github.com/ProtonMail/go-crypto/openpgp/elgamal

version: v1.0.0

type: go

summary: Package elgamal implements ElGamal encryption, suitable for OpenPGP, as specified in "A Public-Key Cryptosystem and a Signature Scheme Based on Discrete Logarithms,"

IEEE Transactions on Information Theory, v.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/elgamal>

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notices: []

name: github.com/go-git/go-git/v5/plumbing/protocol/packp/sideband

version: v5.12.0

type: go

summary: Package sideband implements a sideband mutiplex/demultiplexer

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp/sideband>

license: apache-2.0

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notices: []

name: github.com/go-git/go-git/v5/plumbing/revlist

version: v5.12.0

type: go

summary: Package revlist provides support to access the ancestors of commits, in a similar way as the git-rev-list command.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/revlist>

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notices: []

name: github.com/go-git/go-git/v5/plumbing/transport/file

version: v5.12.0

type: go

summary: Package file implements the file transport protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/file>

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notices: []

name: github.com/go-git/go-git/v5/utls/diff

version: v5.12.0

type: go

summary: Package diff implements line oriented diffs, similar to the ancient Unix diff command.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/diff>

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notices: []

name: github.com/go-git/go-git/v5/plumbing/transport/client

version: v5.12.0

type: go

summary: Package client contains helper function to deal with the different client protocols.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/client>

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name: github.com/ProtonMail/go-crypto/internal/byteutil

version: v1.0.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/internal/byteutil>

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name: golang.org/x/oauth2/internal

version: v0.19.0

type: go

summary: Package internal contains support packages for oauth2 package.

homepage: <https://pkg.go.dev/golang.org/x/oauth2/internal>

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notices: []

name: github.com/ProtonMail/go-crypto/openpgp/eddsa

version: v1.0.0

type: go

summary: Package eddsa implements EdDSA signature, suitable for OpenPGP, as specified in <https://datatracker.ietf.org/doc/html/draft-ietf-openpgp-crypto-refresh-06#section-13.7>

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/eddsa>

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notices: []

name: github.com/ProtonMail/go-crypto/openpgp/internal/ecc

version: v1.0.0

type: go

summary: Package ecc implements a generic interface for ECDH, ECDSA, and EdDSA.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/internal/ecc>

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notices: []

name: github.com/go-git/go-git/v5/storage/filesystem

version: v5.12.0

type: go

summary: Package filesystem is a storage backend base on filesystems

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/storage/filesystem>

license: apache-2.0

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- sources: v5/LICENSE

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name: github.com/go-git/go-git/v5/plumbing/format/config

version: v5.12.0

type: go

summary: Package config implements encoding and decoding of git config files.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/config>

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notices: []

name: github.com/go-git/go-git/v5/utls/binary

version: v5.12.0

type: go

summary: Package binary implements syntax-sugar functions on top of the standard library
binary package

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/binary>

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name: golang.org/x/crypto/openpgp/packet

version: v0.21.0

type: go

summary: Package packet implements parsing and serialization of OpenPGP packets, as
specified in RFC 4880.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/packet>

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name: github.com/ProtonMail/go-crypto/openpgp/internal/encoding

version: v1.0.0

type: go

summary: Package encoding implements openpgp packet field encodings as specified in RFC 4880 and 6637.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/internal/encoding>

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name: github.com/emirpasic/gods/trees

version: v1.18.1

type: go

summary: Package trees provides an abstract Tree interface.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/trees>

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notices: []

name: github.com/emirpasic/gods/containers

version: v1.18.1

type: go

summary: Package containers provides core interfaces and functions for data structures.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/containers>

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notices: []

name: golang.org/x/crypto/ssh/agent

version: v0.21.0

type: go

summary: Package agent implements the ssh-agent protocol, and provides both a client and a server.

homepage: <https://pkg.go.dev/golang.org/x/crypto/ssh/agent>

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name: github.com/go-git/go-git/v5/plumbing/transport/internal/common

version: v5.12.0

type: go

summary: Package common implements the git pack protocol with a pluggable transport.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/internal/common>

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name: github.com/cloudflare/circl/sign/ed448

version: v1.3.7

type: go

summary: Package ed448 implements Ed448 signature scheme as described in RFC-8032.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/sign/ed448>

license: other

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- sources: circl/LICENSE

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notices: []

name: github.com/ProtonMail/go-crypto/openpgp/internal/algorithm

version: v1.0.0

type: go

summary:

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name: github.com/go-git/go-git/v5/internal/path_util

version: v5.12.0

type: go

summary:

homepage: https://pkg.go.dev/github.com/go-git/go-git/v5/internal/path_util

license: apache-2.0

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name: github.com/go-git/go-git/v5/merkletrie/filesystem

version: v5.12.0

type: go

summary:

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name: github.com/go-git/go-git/v5/storage

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/storage>

license: apache-2.0

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name: github.com/go-git/go-git/v5/merkletrie

version: v5.12.0

type: go

summary: Package merkletrie provides support for n-ary trees that are at the same time Merkle trees and Radix trees (tries).

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/merkletrie>

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name: golang.org/x/sys/execabs

version: v0.18.0

type: go

summary: Package execabs is a drop-in replacement for os/exec that requires PATH lookups
to find absolute paths.

homepage: <https://pkg.go.dev/golang.org/x/sys/execabs>

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notices: []

name: golang.org/x/net/context

version: v0.23.0

type: go

summary: Package context defines the Context type, which carries deadlines, cancelation signals, and other request-scoped values across API boundaries and between processes.

homepage: <https://pkg.go.dev/golang.org/x/net/context>

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notices: []

name: golang.org/x/crypto/openpgp/s2k

version: v0.21.0

type: go

summary: Package s2k implements the various OpenPGP string-to-key transforms as specified in RFC 4800 section 3.7.1.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/s2k>

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notices: []

name: github.com/go-git/gcfg/scanner

version: v1.5.1-0.20230307220236-3a3c6141e376

type: go

summary: Package scanner implements a scanner for gcfg configuration text.

homepage: <https://pkg.go.dev/github.com/go-git/gcfg/scanner>

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notices: []

name: github.com/golang/groupcache/lru

version: v0.0.0-20210331224755-41bb18bfe9da

type: go

summary: Package lru implements an LRU cache.

homepage: <https://pkg.go.dev/github.com/golang/groupcache/lru>

license: apache-2.0

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notices: []

name: github.com/go-git/go-git/v5/plumbing/storer

version: v5.12.0

type: go

summary: Package storer defines the interfaces to store objects, references, etc.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/storer>

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- sources: v5/LICENSE

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notices: []

name: dario.cat/mergo

version: v1.0.0

type: go

summary: A helper to merge structs and maps in Golang.

homepage: <https://pkg.go.dev/dario.cat/mergo>

license: bsd-3-clause

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notices: []

name: github.com/go-git/go-git/v5/merkletrie/internal/frame

version: v5.12.0

type: go

summary:

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notices: []

name: github.com/cloudflare/circl/internal/sha3

version: v1.3.7

type: go

summary: Package sha3 implements the SHA-3 fixed-output-length hash functions and
the SHAKE variable-output-length hash functions defined by FIPS-202.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/internal/sha3>

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notices: []

name: github.com/go-git/go-billy/v5/util

version: v5.5.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-billy/v5/util>

license: apache-2.0

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notices: []

name: github.com/go-git/gcfg/types

version: v1.5.1-0.20230307220236-3a3c6141e376

type: go

summary: Package types defines helpers for type conversions.

homepage: <https://pkg.go.dev/github.com/go-git/gcfg/types>

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notices: []

name: golang.org/x/crypto/argon2

version: v0.21.0

type: go

summary: Package argon2 implements the key derivation function Argon2.

homepage: <https://pkg.go.dev/golang.org/x/crypto/argon2>

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notices: []

name: github.com/pjbgf/sha1cd/ubc

version: v0.3.0

type: go

summary: ubc package provides ways for SHA1 blocks to be checked for Unavoidable Bit Conditions that arise from crypto analysis attacks.

homepage: <https://pkg.go.dev/github.com/pjbgf/sha1cd/ubc>

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notices: []

name: golang.org/x/crypto/blake2b

version: v0.21.0

type: go

summary: Package blake2b implements the BLAKE2b hash algorithm defined by RFC 7693 and the extendable output function (XOF) BLAKE2Xb.

homepage: <https://pkg.go.dev/golang.org/x/crypto/blake2b>

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notices: []

name: golang.org/x/sys/unix

version: v0.18.0

type: go

summary: Package unix contains an interface to the low-level operating system primitives.

homepage: <https://pkg.go.dev/golang.org/x/sys/unix>

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Stas Maksimov <maksimov@gmail.com>
Tor Arvid Lund <torarvid@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>

name: github.com/ProtonMail/go-crypto/eax

version: v1.0.0

type: go

summary: 'Package eax provides an implementation of the EAX (encrypt-authenticate-translate)

mode of operation, as described in Bellare, Rogaway, and Wagner "THE EAX MODE OF

OPERATION: A TWO-PASS AUTHENTICATED-ENCRYPTION SCHEME OPTIMIZED FOR SIMPLICITY
AND

EFFICIENCY." In FSE"04, volume 3017 of LNCS, 2004'

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/eax>

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notices: []

name: github.com/emirpasic/gods/utls

version: v1.18.1

type: go

summary: Package utls provides common utility functions.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/utls>

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notices: []

name: github.com/go-git/go-git/v5/plumbing/hash

version: v5.12.0

type: go

summary: package hash provides a way for managing the underlying hash implementations used across go-git.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/hash>

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notices: []

name: gopkg.in/warnings.v0
version: v0.1.2
type: go
summary: Package warnings implements error handling with non-fatal errors (warnings).
homepage: <https://pkg.go.dev/gopkg.in/warnings.v0>
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name: github.com/google/go-querystring/query
version: v1.1.0
type: go
summary: Package query implements encoding of structs into URL query parameters.
homepage: <https://pkg.go.dev/github.com/google/go-querystring/query>
license: bsd-3-clause
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notices: []

name: github.com/pkg/errors

version: v0.9.1

type: go

summary: Package errors provides simple error handling primitives.

homepage: <https://pkg.go.dev/github.com/pkg/errors>

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name: golang.org/x/oauth2

version: v0.19.0

type: go

summary: Package oauth2 provides support for making OAuth2 authorized and authenticated HTTP requests, as specified in RFC 6749.

homepage: <https://pkg.go.dev/golang.org/x/oauth2>

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notices: []

name: golang.org/x/crypto/openpgp/errors

version: v0.21.0

type: go

summary: Package errors contains common error types for the OpenPGP packages.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/errors>

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name: github.com/go-git/go-git/v5/utls/trace

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/trace>

license: apache-2.0

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name: github.com/go-git/go-git/v5/utls/sync

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/sync>

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version: v0.3.3

type: go

summary:

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name: github.com/cloudflare/circl/math/fp448

version: v1.3.7

type: go

summary: Package fp448 provides prime field arithmetic over $GF(2^{448}-2^{224}-1)$.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/math/fp448>

license: other

licenses:

- sources: circl/LICENSE

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notices: []

name: github.com/go-git/go-git/v5/plumbing/transport

version: v5.12.0

type: go

summary: Package transport includes the implementation for different transport protocols.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport>

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name: github.com/go-git/go-git/v5/plumbing/color

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/color>

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notices: []

name: github.com/ProtonMail/go-crypto/openpgp/ecdsa

version: v1.0.0

type: go

summary: Package ecdsa implements ECDSA signature, suitable for OpenPGP, as specified in RFC 6637, section 5.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/ecdsa>

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name: github.com/go-git/go-git/v5/utils/ioutil

version: v5.12.0

type: go

summary: Package ioutil implements some I/O utility functions.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utils/ioutil>

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name: github.com/go-git/go-git/v5/internal/revision

version: v5.12.0

type: go

summary: 'Package revision extracts git revision from string More information about

revision : <https://www.kernel.org/pub/software/scm/git/docs/gitrevisions.html>'

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/internal/revision>

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name: github.com/go-git/go-git/v5/plumbing/transport/ssh

version: v5.12.0

type: go

summary: Package ssh implements the SSH transport protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/ssh>

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name: golang.org/x/net/internal/socks

version: v0.23.0

type: go

summary: Package socks provides a SOCKS version 5 client implementation.

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name: github.com/go-git/go-git/v5/storage/memory

version: v5.12.0

type: go

summary: Package memory is a storage backend base on memory

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/storage/memory>

license: apache-2.0

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name: github.com/go-git/go-git/v5/utls/merkletrie/noder

version: v5.12.0

type: go

summary: Package noder provide an interface for defining nodes in a merkletrie, their hashes and their paths (a noders and its ancestors).

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name: github.com/go-git/go-git/v5/internal/url

version: v5.12.0

type: go

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notices: []

name: github.com/go-git/go-billy/v5/helper/polyfill

version: v5.5.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-billy/v5/helper/polyfill>

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name: github.com/jbenet/go-context/io

version: v0.0.0-20150711004518-d14ea06fba99

type: go

summary: Package ctxio provides io.Reader and io.Writer wrappers that respect context.Contexts.

homepage: <https://pkg.go.dev/github.com/jbenet/go-context/io>

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name: github.com/go-git/go-git/v5/plumbing/object

version: v5.12.0

type: go

summary: Package object contains implementations of all Git objects and utility functions to work with them.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/object>

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name: golang.org/x/crypto/ssh/internal/bcrypt_pbkdf

version: v0.21.0

type: go

summary: Package bcrypt_pbkdf implements bcrypt_pbkdf(3) from OpenBSD.

homepage: https://pkg.go.dev/golang.org/x/crypto/ssh/internal/bcrypt_pbkdf

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name: github.com/ProtonMail/go-crypto/openpgp

version: v1.0.0

type: go

summary: Package openpgp implements high level operations on OpenPGP messages.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp>

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name: github.com/go-git/go-billy/v5/helper/chroot

version: v5.5.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-billy/v5/helper/chroot>

license: apache-2.0

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- sources: v5/README.md

text: Apache License Version 2.0, see [LICENSE](LICENSE)

notices: []

name: golang.org/x/crypto/curve25519

version: v0.21.0

type: go

summary: Package curve25519 provides an implementation of the X25519 function, which performs scalar multiplication on the elliptic curve known as Curve25519.

homepage: <https://pkg.go.dev/golang.org/x/crypto/curve25519>

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name: github.com/ProtonMail/go-crypto/openpgp/s2k

version: v1.0.0

type: go

summary: Package s2k implements the various OpenPGP string-to-key transforms as specified in RFC 4800 section 3.7.1, and Argon2 specified in draft-ietf-openpgp-crypto-refresh-08 section 3.7.1.4.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/s2k>

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notices: []

name: github.com/ProtonMail/go-crypto/brainpool

version: v1.0.0

type: go

summary: Package brainpool implements Brainpool elliptic curves.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/brainpool>

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notices: []

name: github.com/go-git/go-git/v5/plumbing/protocol/packp

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp>

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notices: []

name: github.com/go-git/go-git/v5/plumbing

version: v5.12.0

type: go

summary: package plumbing implement the core interfaces and structs used by go-git

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing>

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notices: []

name: golang.org/x/crypto/openpgp/armor

version: v0.21.0

type: go

summary: Package armor implements OpenPGP ASCII Armor, see RFC 4880.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/armor>

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name: github.com/kevinburke/ssh_config

version: v1.2.0

type: go

summary: Package ssh_config provides tools for manipulating SSH config files.

homepage: https://pkg.go.dev/github.com/kevinburke/ssh_config

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name: golang.org/x/crypto/cast5
version: v0.21.0
type: go
summary: Package cast5 implements CAST5, as defined in RFC 2144.
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name: github.com/ProtonMail/go-crypto/openpgp/packet

version: v1.0.0

type: go

summary: Package packet implements parsing and serialization of OpenPGP packets, as specified in RFC 4880.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/packet>

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name: github.com/cloudflare/circl/dh/x448

version: v1.3.7

type: go

summary: Package x448 provides Diffie-Hellman functions as specified in RFC-7748.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/dh/x448>

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name: github.com/pjbgf/sha1cd/internal

version: v0.3.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/pjbgf/sha1cd/internal>

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notices: []

name: golang.org/x/net/proxy

version: v0.23.0

type: go

summary: Package proxy provides support for a variety of protocols to proxy network data.

homepage: <https://pkg.go.dev/golang.org/x/net/proxy>

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name: github.com/cloudflare/circl/math

version: v1.3.7

type: go

summary: Package math provides some utility functions for big integers.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/math>

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notices: []

name: github.com/skeema/knownhosts

version: v1.2.2

type: go

summary: Package knownhosts is a thin wrapper around golang.org/x/crypto/ssh/knownhosts, adding the ability to obtain the list of host key algorithms for a known host.

homepage: <https://pkg.go.dev/github.com/skeema/knownhosts>

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---

name: github.com/emirpasic/gods/trees/binaryheap

version: v1.18.1

type: go

summary: Package binaryheap implements a binary heap backed by array list.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/trees/binaryheap>

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name: github.com/go-git/gcfg

version: v1.5.1-0.20230307220236-3a3c6141e376

type: go

summary: Package gcfg reads "INI-style" text-based configuration files with "name=value" pairs grouped into sections (gcfg files).

homepage: <https://pkg.go.dev/github.com/go-git/gcfg>

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---

name: github.com/pjbgf/sha1cd

version: v0.3.0

type: go

summary: Package sha1cd implements collision detection based on the whitepaper Counter-cryptanalysis from Marc Stevens.

homepage: <https://pkg.go.dev/github.com/pjbgf/sha1cd>

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---

name: github.com/cloudflare/circl/math/mlsbset

version: v1.3.7

type: go

summary: Package mlsbset provides a constant-time exponentiation method with precomputation.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/math/mlsbset>

license: other

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name: github.com/go-git/go-git/v5/plumbing/format/packfile

version: v5.12.0

type: go

summary: Package packfile implements encoding and decoding of packfile format.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/packfile>

license: apache-2.0

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---

name: github.com/go-git/go-git/v5/plumbing/transport/server

version: v5.12.0

type: go

summary: Package server implements the git server protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/server>

license: apache-2.0

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---

name: golang.org/x/crypto/ssh

version: v0.21.0

type: go

summary: Package ssh implements an SSH client and server.

homepage: <https://pkg.go.dev/golang.org/x/crypto/ssh>

license: other

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name: github.com/emirpasic/gods/lists/arraylist

version: v1.18.1

type: go

summary: Package arraylist implements the array list.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/lists/arraylist>

license: other

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---

name: golang.org/x/crypto/sha3

version: v0.21.0

type: go

summary: Package sha3 implements the SHA-3 fixed-output-length hash functions and the SHAKE variable-output-length hash functions defined by FIPS-202.

homepage: <https://pkg.go.dev/golang.org/x/crypto/sha3>

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name: github.com/ProtonMail/go-crypto/bitcurves

version: v1.0.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/bitcurves>

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name: github.com/cyphar/filepath-securejoin

version: v0.2.4

type: go

summary: Package securejoin is an implementation of the hopefully-soon-to-be-included SecureJoin helper that is meant to be part of the "path/filepath" package.

homepage: <https://pkg.go.dev/github.com/cyphar/filepath-securejoin>

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name: github.com/go-git/go-git/v5/plumbing/protocol/packp/capability

version: v5.12.0

type: go

summary: Package capability defines the server and client capabilities.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp/capability>

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---

name: github.com/cloudflare/circl/ecc/goldilocks

version: v1.3.7

type: go

summary: Package goldilocks provides elliptic curve operations over the goldilocks curve.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/ecc/goldilocks>

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notices: []

---

name: github.com/go-git/go-git/v5/plumbing/transport/http

version: v5.12.0

type: go

summary: Package http implements the HTTP transport protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/http>

license: apache-2.0

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- sources: v5/LICENSE

text: |2

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notices: []

---

name: github.com/spf13/pflag

version: v1.0.5

type: go

summary: Package pflag is a drop-in replacement for Go's flag package, implementing POSIX/GNU-style --flags.

homepage: <https://pkg.go.dev/github.com/spf13/pflag>

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---

name: github.com/go-git/go-git/v5/plumbing/transport/git

version: v5.12.0

type: go

summary: Package git implements the git transport protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/git>

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notices: []

---

name: github.com/ProtonMail/go-crypto/openpgp/armor

version: v1.0.0

type: go

summary: Package armor implements OpenPGP ASCII Armor, see RFC 4880.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/armor>

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---

name: github.com/go-git/go-git/v5/plumbing/format/gitignore

version: v5.12.0

type: go

summary: Package gitignore implements matching file system paths to gitignore patterns that can be automatically read from a git repository tree in the order of definition priorities.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/gitignore>

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---

name: github.com/sergi/go-diff/diffmatchpatch

version: v1.3.2-0.20230802210424-5b0b94c5c0d3

type: go

summary: Package diffmatchpatch offers robust algorithms to perform the operations  
required for synchronizing plain text.

homepage: <https://pkg.go.dev/github.com/sergi/go-diff/diffmatchpatch>

license: mit

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```
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```

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## 1.319 libseccomp 2.5.3-2ubuntu3~22.04.1

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## 1.320 dpkg 1.21.1ubuntu2.6

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## 1.322 libtirpc 1.3.2-2ubuntu0.1

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
This source code was written by the Go contributors.
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```

package spec

import "testing"

```
func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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## 1.324 cyrus-sasl 2.1.28+dfsg-10

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 * Rob Earhart
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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: Cyrus SASL

Source: <ftp://ftp.cyrusimap.org/cyrus-sasl/>

Files-Excluded: dlcompat-20010505

doc/html

docsrc/exts/themes

mac

man

\*.pyc

Comment: doc/html, man and \*.pyc contain generated files.

dlcompat and mac are not needed and contain many licenses more.

docsrc/exts/themes contains generated files and has a Debian package replacement.

Files: \*

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Files: common/crypto-compat.c

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Files: docsrc/exts/sphinxlocal/\*

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2015 by Nic Bernstein <[nic@onlight.com](mailto:nic@onlight.com)>

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Files: debian/\*

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2006-2009, Fabian Fagerholm <[fabbe@debian.org](mailto:fabbe@debian.org)>

2006-2011, 2014, Roberto C. Sanchez <[roberto@connexer.com](mailto:roberto@connexer.com)>

2015-2016, Ondrej Sur <[ondrej@debian.org](mailto:ondrej@debian.org)>

2021-2022, Bastian Germann

Comment: For upstream patches, the licenses of the changed files apply.

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Files: debian/po/\*.po

debian/po/\*.pot

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debian/po/sv.po

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debian/po/it.po

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Files: debian/po/de.po

debian/po/es.po

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debian/po/pt\_BR.po

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Files: debian/rules

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2006-2011, 2014, Roberto C. Sanchez <roberto@connexer.com>

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Based on cyrus-imapd-2.2 packages by Henrique de Moraes Holshuch.

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Files: debian/saslfinger/\*

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Comment: The saslfinger utility was downloaded from

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Files: debian/gen-auth/\*

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<http://jetmore.org/john/code/gen-auth>

Files: debian/tests/\*

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Files: include/exits.h

lib/getsubopt.c

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Files: include/md5\*.h

lib/md5.c

saslauthd/md5.c

saslauthd/saslauthd\_md5.h

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Files: include/makemd5.c

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Files: plugins/ldapdb.c

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Files: pwcheck/Makefile.in

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Files:

sample/server.c

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saslauthd/ipc\_doors.c  
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```

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<signature of Ty Coon>, 1 April 1989
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section 10

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## 1.333 cpp 12.3.0-1ubuntu1~22.04.2

### 1.333.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers [debian-gcc@lists.debian.org](mailto:debian-gcc@lists.debian.org), with sources obtained from:

```
ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)
```

The current gcc-12 source package is taken from the git gcc-12-branch.

Changes: See [changelog.Debian.gz](https://changelog.debian.org)

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language      | Compiler package | Library package | Documentation     |
|---------------|------------------|-----------------|-------------------|
| -----         |                  |                 |                   |
| Ada           |                  |                 |                   |
|               | gnat-12          | libgnat-12      | gnat-12-doc       |
| C             | gcc-12           |                 | gcc-12-doc        |
| C++           | g++-12           | libstdc++6      | libstdc++6-12-doc |
| D             | gdc-12           |                 |                   |
| Fortran 95    | gfortran-12      | libgfortran5    | gfortran-12-doc   |
| Go            | gccgo-12         | libgo0          |                   |
| Objective C   | gobjc-12         | libobjc4        |                   |
| Objective C++ | gobjc++-12       |                 |                   |
| Modula-2      | gm2-12           | libgm2          |                   |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources          | Development       | Debugging         | Position-Independent |
|----------|------------------|-------------------|-------------------|----------------------|
| -----    |                  |                   |                   |                      |
| C++      |                  | libstdc++6-12-dbg | libstdc++6-12-pic |                      |
| D        | libphobos-12-dev |                   |                   |                      |

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4    GCC intrinsics (platform-dependent)

gcc-12-base

Base files common to all compilers

gcc-12-soft-float

Software floating point (ARM only)

gcc-12-source

The sources with patches

Ada:

libgnat-util12-dev, libgnat-util12    GNAT version library

C:

cpp-12, cpp-12-doc

GNU C Preprocessor

libssp0-dev, libssp0

GCC stack smashing protection library

libquadmath0

Math routines for the \_\_float128 type

fixincludes

Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1    GCC OpenMP (GOMP) support library

libitm1-dev, libitm1    GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of

'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm



- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-12 Ada support library and libgnat-util12 library.
- Various config files in gcc/config/ used in runtime libraries.
- libvtv

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ldexpq.c:

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- \* Cygnus Support, drepper@cygnus.com.

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Cephes Math Library Release 2.2: January, 1991

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D:  
gdc-12                      GNU D Compiler  
libphobos-12-dev              D standard runtime library

The D source package is made up of the following components.

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- d/\*

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The Zlib data compression library:  
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The Phobos standard runtime library:  
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gcc/m2/gm2-libiberty:

gcc/m2/mc-boot/:

gcc/m2/mc-boot-ch/:

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Information technology - programming languages

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## 1.335 pcre 10.34-7ubuntu0.1

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

Email local part: ph10

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\*

\* Debian ischroot program

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\*

\* Debian run-parts program

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```
COPYING.other -*- org -*-
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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# 1.340 Isb 11.1.0ubuntu4

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Upstream-Name: LSB implementation package

Files: \*

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License: GPL-2

Files: init-functions.d/50-ubuntu-logging

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Files: init-functions

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## 1.341 x-time-rate 0.5.0

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# 1.342 systemd 254.16-1~bpo12+1

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Because of this blurred distinction, using the ordinary General Public

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Otherwise, if the work

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## 1.343 diffutils 3.7-3

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## 1.344 zerolog 1.33.0

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```

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<signature of Ty Coon>, 1 April 1989
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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel

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This package was put together by me, Mark Baker <mbaker@iee.org> from the  
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# 1.358 xz 5.2.4-1ubuntu1.1

## 1.358.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

XZ Utils is developed and maintained upstream by Lasse Collin. Major  
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have not (details below).

.

This file describes the source package. The binary packages contain  
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.

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.

[...]

.

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> dos/README,

windows/README

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

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Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

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Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Authors: Bruno Haible

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# 1.360 e2fsprogs 1.45.5-2ubuntu1.1

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card  
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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBS))

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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Index: tdbsa/tdb.c

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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```

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Gadi Oxman, August 1995

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```

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```
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```

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Theodore Ts'o  
23-June-2007

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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:

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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.

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

(For example, a function in a library to compute square roots has



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

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

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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.

@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.

@item

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

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

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

@item

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

@item

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@item

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

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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smallexample

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
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Version 2.1, February 1999

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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.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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This option is useful when you wish to copy part of the code of

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

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

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

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

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

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

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

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

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

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structure

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# 1.375 findutils 4.8.0-1ubuntu3

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## 1.376 ncurses 6.2-0ubuntu2.1



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# 1.377 pcre 8.39-12ubuntu0.1

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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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.)

@end enumerate

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

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

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

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You may 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.

#### @item

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

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

#### @enumerate a

##### @item

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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@enumerate a

@item

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

@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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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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```
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```

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```
@end
smallexample
```

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```
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```

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

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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.

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1

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

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

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

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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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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.

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

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# 1.386 mergo 0.3.16

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```
import: ../../../../fossene/db/schema/thing.yml
fields:
 site: string
 author: root
```

# 1.387 xxhash 2.3.0

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## 1.390 klauspost-compress 1.17.9

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