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In your requests please include the following reference number 78EE117C99-2557792709

Contents

1.1 bcel 5.1
- 1.1.1 Notifications
- 1.1.2 Available under license

1.2 gdb 5.3
- 1.2.1 Available under license

1.3 libjpeg 6b
- 1.3.1 Notifications
- 1.3.2 Available under license

1.4 thread-pool 0.2.5
- 1.4.1 Available under license

1.5 xinetd 2.3.15
- 1.5.1 Available under license

1.6 zip 3.0
- 1.6.1 Available under license

1.7 wagon-file 2.4
- 1.7.1 Available under license

1.8 unzip 6.0
- 1.8.1 Available under license

1.9 maven-settings 3.0.5
- 1.9.1 Available under license

1.10 aether-spi 1.13.1
- 1.10.1 Available under license

1.11 maven-artifact 3.0.5
- 1.11.1 Available under license

1.12 maven-aether-provider 3.0.5
- 1.12.1 Available under license

1.13 maven-model-builder 3.0.5
1.13.1 Available under license
1.14 aether-api 1.13.1
1.14.1 Available under license
1.15 maven-model 3.0.5
1.15.1 Available under license
1.16 maven-plugin-api 3.0.5
1.16.1 Available under license
1.17 maven-core 3.0.5
1.17.1 Available under license
1.18 maven-settings-builder 3.0.5
1.18.1 Available under license
1.19 plexus-sec-dispatcher 1.3
1.19.1 Available under license
1.20 aether-connector-wagon 1.13.1
1.20.1 Available under license
1.21 commons-codec 1.6
1.21.1 Available under license
1.22 plexus-cipher 1.7
1.22.1 Available under license
1.23 libmnl 1.0.4
1.23.1 Available under license
1.24 lzo 2.10
1.24.1 Available under license
1.25 libtool 2.4.6
1.25.1 Available under license
1.26 diffutils 3.7
1.26.1 Available under license
1.27 libxml2 2.9.9
1.27.1 Available under license
1.28 apache-http-server 2.4.39
1.29 patch 2.7.6
1.30 bzip2 1.0.8
1.31 python-setuptools 41.2.0
1.31.1 Available under license
1.32 dmidecode 3.5
1.32.1 Available under license
1.33 binutils 2.23.52
1.33.1 Available under license

1.34 sbsigntool 1.3
1.34.1 Available under license
1.35 sharutils 4.15
1.35.1 Available under license
1.36 dmalloc 5.5.2
1.37 libdaemon 0.14
1.37.1 Available under license
1.38 luajit 2.1.0
1.38.1 Available under license
1.39 zeromq 4.2.3
1.39.1 Available under license
1.40 plexus-component-annotations 1.5.5
1.40.1 Available under license
1.41 sisu-guice 3.1.0
1.41.1 Available under license
1.42 plexus-interpolation 1.14
1.42.1 Available under license
1.43 net-tools 2.10
1.43.1 Available under license
1.44 libnet 1.2
1.44.1 Available under license
1.45 ipmi-tool 1.8.18
1.45.1 Available under license
1.46 libart 2.3.21
1.46.1 Available under license
1.47 net-snmp 5.8
1.47.1 Available under license
1.48 plexus-classworlds 2.4
1.48.1 Available under license
1.49 python-requests 2.22.0
1.49.1 Available under license
1.50 urllib3 1.25.3
1.50.1 Notifications
1.50.2 Available under license
1.51 lsof 4.91
1.51.1 Available under license
1.52 xerces-j 2.7.1
1.52.1 Available under license
1.53 cyrus-sasl 2.1.27

1.53.1 Available under license
1.54 libcroco 0.6.13
1.54.1 Available under license
1.55 netkit-telnet 0.17
1.55.1 Available under license
1.56 p7zip 16.02
1.56.1 Available under license
1.57 fbset 2.1
1.57.1 Available under license
1.58 bc 1.07
1.58.1 Available under license
1.59 pkg-config 0.29.2
1.59.1 Available under license
1.60 dc 1.4
1.60.1 Available under license
1.61 urllib3 1.25.7
1.61.1 Notifications
1.61.2 Available under license
1.62 inf 0.9.1
1.62.1 Available under license
1.63 libxml2 2.9.10
1.63.1 Available under license
1.64 libxslt 1.1.34
1.64.1 Available under license
1.65 beecrypt 4.2.1
1.65.1 Available under license
1.66 libunistring 0.9.10
1.66.1 Available under license
1.67 go-difflib 1.0.0
1.67.1 Available under license
1.68 wireless-tools 30.pre9
1.68.1 Available under license
1.69 automat 20.2.0
1.69.1 Available under license
1.70 c-ares 1.16.0
1.70.1 Available under license
1.71 openjdk 1.8.0
1.71.1 Available under license
1.72 ncurses 6.2

1.72.1 Available under license
1.73 rpcbind 1.2.5
1.73.1 Available under license
1.74 godbus 5.0.3
1.74.1 Available under license
1.75 cpio 2.13
1.75.1 Available under license
1.76 xz 5.2.5
1.76.1 Available under license
1.77 fontconfig 2.13.1
1.77.1 Available under license
1.78 libffi 3.3
1.78.1 Available under license
1.79 acpid 2.0.32
1.79.1 Available under license
1.80 coreutils 8.32
1.80.1 Available under license
1.81 libsamplerate 0.1.9
1.81.1 Available under license
1.82 sed 4.8
1.82.1 Available under license
1.83 tcp-wrappers 7.6
1.83.1 Available under license
1.84 make 4.3
1.84.1 Available under license
1.85 cracklib 2.9.5
1.85.1 Available under license
1.86 libnl3 3.5.0
1.86.1 Available under license
1.87 pixman 0.40.0
1.87.1 Available under license
1.88 jansson 2.13.1
1.88.1 Available under license
1.89 mdadm 4.1
1.89.1 Available under license
1.90 sqlite 3.32.3
1.90.1 Available under license
1.91 go-systemd 22.1.0
1.91.1 Available under license

1.92 sg3-utils 1.45
1.92.1 Available under license
1.93 asm 5.0.3
1.93.1 Available under license
1.94 libidn 2.3.0
1.94.1 Available under license
1.95 newt 0.52.21
1.95.1 Available under license
1.96 popt 1.18
1.96.1 Available under license
1.97 cairo 1.16.0
1.97.1 Available under license
1.98 libcheck 0.15.2
1.98.1 Available under license
1.99 groff 1.22.4
1.99.1 Available under license
1.100 libidn 1.36
1.100.1 Available under license
1.101 json-c 0.15
1.101.1 Available under license
1.102 zulu-jre 1.8.0
1.102.1 Available under license
1.103 lcms 2.11
1.103.1 Available under license
1.104 brotli 1.0.9
1.104.1 Available under license
1.105 flex 2.6.4
1.105.1 Available under license
1.106 libdnet 1.14
1.106.1 Available under license
1.107 makeself 2.1.5
1.107.1 Available under license
1.108 libuv 1.40.0
1.108.1 Available under license
1.109 logrus 1.7.0
1.109.1 Available under license
1.110 free-type 2.10.4
1.110.1 Available under license
1.111 bridgeutils 1.7

1.111.1 Available under license
1.112 legacy8ujsse 1.1.1
1.112.1 Available under license
1.113 openjsse 1.1.5
1.113.1 Available under license
1.114 valgrind 3.16.1
1.114.1 Available under license
1.115 gettext 0.21
1.115.1 Available under license
1.116 binutils 2.29.1
1.116.1 Available under license
1.117 libyaml 0.2.5
1.117.1 Available under license
1.118 cups 2.3.3
1.118.1 Available under license
1.119 readline 8.1
1.119.1 Available under license
1.120 pycrypto 2.6.1
1.120.1 Available under license
1.121 colorama 0.4.1
1.121.1 Available under license
1.122 pyparsing 2.4.7
1.122.1 Available under license
1.123 packaging 20.4
1.123.1 Available under license
1.124 jackson-databind 2.12.0
1.124.1 Available under license
1.125 jackson 2.12.0
1.125.1 Available under license
1.126 pexpect 4.8.0
1.126.1 Available under license
1.127 sanitized-anchor-name 1.0.0
1.127.1 Available under license
1.128 python-requests 2.25.1
1.128.1 Available under license
1.129 inotify-tools 3.20.11.0
1.129.1 Available under license
1.130 pciutils 3.7.0
1.130.1 Available under license

1.131 libgpg-error 1.41
1.131.1 Available under license
1.132 expat 2.2.8
1.132.1 Available under license
1.133 maven 3.0.5
1.133.1 Available under license
1.134 ebtables 2.0.11
1.134.1 Available under license
1.135 libusb 1.0.24
1.135.1 Available under license
1.136 kmod 28
1.136.1 Available under license
1.137 libcap-ng 0.8.2
1.137.1 Available under license
1.138 smartmontools 7.2
1.138.1 Available under license
1.139 parted 3.4
1.139.1 Available under license
1.140 boost 1.75.0
1.140.1 Available under license
1.141 avahi 0.8
1.141.1 Available under license
1.142 iptables 1.8.7
1.142.1 Available under license
1.143 cronie 1.5.5
1.143.1 Available under license
1.144 ed 1.17
1.144.1 Available under license
1.145 pkgtools 9.0
1.145.1 Available under license
1.146 efibootmgr 17
1.146.1 Available under license
1.147 kexec-tools 2.0.21
1.147.1 Available under license
1.148 dosfs-tools 4.2
1.148.1 Available under license
1.149 commons-cli 1.2
1.149.1 Available under license
1.150 alsa 1.2.4

1.150.1 Available under license
1.151 libpciaccess 0.16
1.151.1 Available under license
1.152 netcat-openbsd 1.195
1.152.1 Available under license
1.153 libsodium 1.0.18
1.153.1 Available under license
1.154 dpkg 1.20.7.1
1.154.1 Available under license
1.155 dmidecode 3.3
1.155.1 Available under license
1.156 hd-parm 9.60
1.156.1 Available under license
1.157 lcms 2.12
1.157.1 Available under license
1.158 visual-studio-runtime 14.00.24210.0
1.158.1 Available under license
1.159 rrdtool 1.7.2
1.159.1 Available under license
1.160 libseccomp 2.5.1
1.160.1 Available under license
1.161 lm-sensors 3.6.0
1.161.1 Available under license
1.162 protobuf-c 1.3.3
1.162.1 Available under license
1.163 wagon-provider-api 2.4
1.163.1 Available under license
1.164 wagon-http 2.4
1.164.1 Available under license
1.165 wagon-http-shared4 2.4
1.165.1 Available under license
1.166 rng-tools 6.11
1.166.1 Available under license
1.167 httpcomponents-core 4.2.3
1.167.1 Available under license
1.168 libuv 1.41.0
1.168.1 Available under license
1.169 lmdb 0.9.24
1.169.1 Available under license

1.170 jzmq 3.1.0
1.170.1 Available under license
1.171 ethtool 5.10
1.171.1 Available under license
1.172 libpcap 1.10.0
1.172.1 Available under license
1.173 glibc 2.33
1.173.1 Available under license
1.174 libestr 0.1.11
1.174.1 Available under license
1.175 npth 1.6
1.175.1 Available under license
1.176 libtirpc 1.3.1
1.176.1 Available under license
1.177 findutils 4.8.0
1.177.1 Available under license
1.178 grep 3.6
1.178.1 Available under license
1.179 libproxy 0.4.17
1.179.1 Available under license
1.180 libev 4.33
1.180.1 Available under license
1.181 lz4 1.9.3
1.181.1 Available under license
1.182 maven-repository-metadata 3.0.5
1.182.1 Available under license
1.183 maven-compat 3.0.5
1.183.1 Available under license
1.184 audit 3.0.1
1.184.1 Available under license
1.185 elfutils 0.183
1.185.1 Available under license
1.186 xml-commons-resolver 1.1
1.186.1 Notifications
1.186.2 Available under license
1.187 iproute 5.11.0
1.187.1 Available under license
1.188 coverage 5.5
1.188.1 Available under license

1.189 maven-embedder 3.0.5
1.189.1 Available under license
1.190 commons-logging 1.1.1
1.190.1 Available under license
1.191 strace 5.11
1.191.1 Available under license
1.192 sqlite 3.35.0
1.192.1 Available under license
1.193 base-passwd 3.5.29
1.193.1 Available under license
1.194 breakpad 1.0
1.194.1 Available under license
1.195 serf 1.3.9
1.195.1 Available under license
1.196 berkeley-db 5.3.28
1.196.1 Available under license
1.197 cryptography 3.3.2
1.197.1 Available under license
1.198 hyperlink 21.0.0
1.198.1 Available under license
1.199 json-net 0.17.0
1.199.1 Available under license
1.200 tap.py 3.0
1.200.1 Available under license
1.201 walinuxagent 2.2.46
1.201.1 Available under license
1.202 nspr 4.29
1.202.1 Available under license
1.203 libogg 1.3.4
1.203.1 Available under license
1.204 stunnel 5.59
1.204.1 Available under license
1.205 incremental 21.3.0
1.205.1 Available under license
1.206 attr 2.5.1
1.206.1 Available under license
1.207 llvm 12.0.0
1.207.1 Available under license
1.208 screen 4.8.0

1.208.1 Available under license
1.209 pytz 2021.1
1.209.1 Available under license
1.210 runc 1.0.0+rc5+git0+6a2c155968
1.210.1 Available under license
1.211 binutils 2.36.1
1.211.1 Available under license
1.212 supervisor 4.2.1
1.212.1 Available under license
1.213 pyserial 3.5
1.213.1 Available under license
1.214 python3-funcsigs 1.0.2
1.214.1 Available under license
1.215 distlib 0.3.2
1.215.1 Available under license
1.216 tar 1.34
1.216.1 Available under license
1.217 protobuf 3.14.0
1.217.1 Available under license
1.218 urllib3 1.26.5
1.218.1 Notifications
1.218.2 Available under license
1.219 expat 2.4.1
1.219.1 Available under license
1.220 bash 5.1.4
1.220.1 Available under license
1.221 json-c 0.99.9
1.221.1 Available under license
1.222 lighttpd 1.4.59
1.222.1 Available under license
1.223 rsyslog 8.2102.0
1.223.1 Available under license
1.224 openosc 1.0.5
1.224.1 Available under license
1.225 mpclib 1.2.1
1.225.1 Available under license
1.226 lrzsz 0.12.20
1.226.1 Available under license
1.227 rfc3986 1.3.2

1.227.1 Available under license
1.228 bison 3.7.6
1.228.1 Available under license
1.229 netbase 6.2
1.229.1 Available under license
1.230 mtd-utils 2.1.2
1.230.1 Available under license
1.231 urllib3 1.26.6
1.231.1 Available under license
1.232 gnutls 3.7.2
1.232.1 Available under license
1.233 nghttp2 1.44.0
1.233.1 Available under license
1.234 pep517 0.11.0
1.234.1 Available under license
1.235 python-requests 2.26.0
1.235.1 Available under license
1.236 binutils 2.35.50
1.236.1 Available under license
1.237 pigz 2.6
1.237.1 Available under license
1.238 six 1.15.0
1.238.1 Available under license
1.239 iconv 2.33
1.239.1 Available under license
1.240 msgpack 1.0.2
1.240.1 Available under license
1.241 gmp 6.2.1
1.241.1 Available under license
1.242 procps 3.3.17
1.242.1 Available under license
1.243 debianutils 4.11.2
1.243.1 Available under license
1.244 liburcu 0.12.2
1.244.1 Available under license
1.245 python-chardet 4.0.0
1.245.1 Available under license
1.246 tcl 8.6.11
1.246.1 Available under license

1.247 jackson-annotations 2.12.0

1.247.1 Available under license

1.248 python-setuptools 58.1.0

1.248.1 Available under license

1.249 luajit 2.1.0.beta3

1.249.1 Available under license

1.250 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

1.250.1 Available under license

1.251 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

1.251.1 Available under license

1.252 googleapis-gnostic 0.5.5

1.252.1 Available under license

1.253 spf13-pflag 1.0.5

1.253.1 Available under license

1.254 x-text 0.3.7

1.254.1 Available under license

1.255 serialx-hashring 0.0.0-20190422032157-8b2912629002

1.255.1 Available under license

1.256 tonistiigi-vt100 0.0.0-20210615222946-8066bb97264f

1.256.1 Available under license

1.257 aec 1.0.0

1.257.1 Available under license

1.258 docker-go-metrics 0.0.1

1.258.1 Available under license

1.259 units 0.0.0-20180711220420-6950e57a87ea

1.259.1 Available under license

1.260 sys-mountinfo 0.4.0

1.260.1 Available under license

1.261 go-criu 4.1.0

1.261.1 Available under license

1.262 curl 7.79.1

1.262.1 Available under license

1.263 bind 9.11.32

1.263.1 Available under license

1.264 gojsonpointer 0.0.0-20190905194746-02993c407bfb

1.264.1 Available under license

1.265 dropbear 2020.81

1.265.1 Available under license

1.266 uniseg 0.2.0

1.266.1 Available under license
1.267 i2c-tools 4.2
1.267.1 Available under license
1.268 grpc 1.36.4
1.268.1 Available under license
1.269 notary 0.7.0
1.269.1 Available under license
1.270 lua 5.3.6
1.270.1 Available under license
1.271 prometheus-common 0.32.1
1.271.1 Available under license
1.272 libgcrypt 1.9.4
1.272.1 Available under license
1.273 concurrentloghandler 0.9.1
1.273.1 Available under license
1.274 libcxx 12.0.0
1.274.1 Available under license
1.275 tar 4.4.13
1.275.1 Available under license
1.276 pycparser 2.20
1.276.1 Available under license
1.277 libjpeg-turbo 2.0.6
1.277.1 Available under license
1.278 protobuf 1.4.3
1.278.1 Available under license
1.279 json-iterator-go 1.1.12
1.279.1 Available under license
1.280 gnupg 2.2.27
1.280.1 Available under license
1.281 libsolv 0.7.17
1.281.1 Available under license
1.282 x-term 0.0.0-20210927222741-03fcf44c2211
1.282.1 Available under license
1.283 shlex 0.0.0-20191202100458-e7afc7fbc510
1.283.1 Available under license
1.284 pep517 0.5.0
1.284.1 Available under license
1.285 glib 2.66.7
1.285.1 Available under license

1.286 pep517 0.7.0

1.286.1 Available under license

1.287 go-colorable 0.1.12

1.287.1 Available under license

1.288 libedit 3.1

1.288.1 Available under license

1.289 google-apis 1.4.1

1.289.1 Available under license

1.290 x-oauth2 0.0.0-20211104180415-d3ed0bb246c8

1.290.1 Available under license

1.291 x-sys 0.0.0-20201119102817-f84b799fce68

1.291.1 Available under license

1.292 chardet 3.0.4

1.292.1 Available under license

1.293 crs-log 0.6.0

1.293.1 Available under license

1.294 crs-z-agent 0.6.0

1.294.1 Available under license

1.295 crs-client 0.6.0

1.295.1 Available under license

1.296 crs-shared 0.6.0

1.296.1 Available under license

1.297 gojsonschema 1.2.0

1.297.1 Available under license

1.298 libassuan 2.5.4

1.298.1 Available under license

1.299 tdb 1.46.1

1.299.1 Available under license

1.300 inetutils 2.0

1.300.1 Available under license

1.301 shared-mime-info 2.1

1.301.1 Available under license

1.302 libbsd 0.11.3

1.302.1 Available under license

1.303 pango 1.48.2

1.303.1 Available under license

1.304 dtc 1.6.0

1.304.1 Available under license

1.305 willf-bitset 1.1.11

1.305.1 Available under license
1.306 keyutils 1.6.1
1.306.1 Available under license
1.307 libarchive 3.5.3
1.307.1 Available under license
1.308 openjdk-jre 1.8.0u282
1.308.1 Available under license
1.309 ifupdown 0.8.36
1.309.1 Available under license
1.310 libaio 0.3.112
1.310.1 Available under license
1.311 libpwquality 1.4.4
1.311.1 Available under license
1.312 backoff 4.1.2
1.312.1 Available under license
1.313 crash 7.3.0
1.313.1 Available under license
1.314 usbutils 013
1.314.1 Available under license
1.315 iw 5.9
1.315.1 Available under license
1.316 alsa-utils 1.2.4
1.316.1 Available under license
1.317 otel-internal-metric 0.27.0
1.317.1 Available under license
1.318 otel-exporters-otlp-internal-retry 1.4.1
1.318.1 Available under license
1.319 otel-sdk 1.4.1
1.319.1 Available under license
1.320 proto-otlp 0.12.0
1.320.1 Available under license
1.321 x-net 0.0.0-20201224014010-6772e930b67b
1.321.1 Available under license
1.322 cavium-liquidio 3.1.2
1.322.1 Available under license
1.323 contrib-instrumentation-net-http-httptrace-otelhttptrace 0.29.0
1.323.1 Available under license
1.324 fdisk 2.38.0
1.324.1 Available under license

1.325 pwquality 1.4.4
1.325.1 Available under license
1.326 rpm 4.16.1
1.326.1 Available under license
1.327 xdelta 3.1.0
1.327.1 Available under license
1.328 mpfr 4.1.0
1.328.1 Available under license
1.329 wr-init 1.0
1.329.1 Available under license
1.330 libnsl 1.3.0
1.330.1 Available under license
1.331 sysfsutils 2.1.0
1.331.1 Available under license
1.332 gdb 10.1
1.332.1 Available under license
1.333 python-certifi 2021.05.30
1.333.1 Available under license
1.334 talloc 2.3.3
1.334.1 Available under license
1.335 json-glib 1.6.2
1.335.1 Available under license
1.336 gobject-introspection 1.66.1
1.336.1 Available under license
1.337 at 3.2.1
1.337.1 Available under license
1.338 man-db 2.9.4
1.338.1 Available under license
1.339 cmake 3.19.5
1.339.1 Available under license
1.340 gperftools 2.9.1
1.340.1 Available under license
1.341 lttng-ust 2.12.1
1.341.1 Available under license
1.342 glib-networking 2.66.0
1.342.1 Available under license
1.343 image-magick 7.0.10-25
1.343.1 Available under license
1.344 nss 3.64

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DOCUMENTATION
 ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
 install.doc How to configure and install the IJG software.
 usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
  rdjpgcom, and wrjpgcom.
 *.1 Unix-style man pages for programs (same info as usage.doc).
 wizard.doc Advanced usage instructions for JPEG wizards only.
 change.log Version-to-version change highlights.
Programmer and internal
 documentation:
 libjpeg.doc How to use the JPEG library in your own programs.
 example.c Sample code for calling the JPEG library.
 structure.doc Overview of the JPEG library's internal structure.
 filelist.doc Road map of IJG files.
 coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly

the order listed) before diving into the code.

OVERVIEW
========

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

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments
in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have

achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

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

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
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  CompuServe Incorporated. GIF(sm) is a Service Mark property of
  CompuServe Incorporated."

REFERENCES
==========

We
highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more
leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp.
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The
JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the

actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

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

help@uunet.uu.net for information on retrieving files that way.

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers
archive sites, including the official news.answers
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send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
==========

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG,

which we do not. (On the other hand, it doesn't do progressive JPEG.)

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

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

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

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

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

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values. We also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without

sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

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

1.4 thread-pool 0.2.5

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1.5 xinetd 2.3.15

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1.6 zip 3.0

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1.7 wagon-file 2.4

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1.8 unzip 6.0

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the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port).. These copyrights
are discussed in more detail below.

All remaining
code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip
5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is
needed, the unreduce code copyrighted by Samuel H. Smith is available
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cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code
(macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
  * (Apple Macintosh Developer Technical Support Emeritus)
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  *
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```

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```
  *  MacBinaryIII.h
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
```

```
   * ---------------------------------------------------------------------
   * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
   * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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```

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The following copyright applies to the full-featured unreduce.c
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```
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   *
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```

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default
no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contribu-
tions as useful as we have his.

Note that the third and fourth stipulations still apply to any com-
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```
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```

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```
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```

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```
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The remaining code was written by many people associated with the

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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more complete list of contributors.
 The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
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1.9 maven-settings 3.0.5

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1.12 maven-aether-provider 3.0.5

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1.14 aether-api 1.13.1

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```
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import java.util.Collection;
import java.util.Collections;
import java.util.Iterator;
import java.util.LinkedHashSet;
import java.util.List;

import org.sonatype.aether.RepositoryException;
import org.sonatype.aether.artifact.Artifact;
import org.sonatype.aether.graph.DependencyNode;
import org.sonatype.aether.version.VersionConstraint;

/**
* Thrown in case of an unsolvable conflict between different version constraints for a dependency.
*
* @author Benjamin Bentmann
*/
public class UnsolvableVersionConflictException
    extends RepositoryException
{

  private final Object dependencyConflictId;

  private final Collection<String> versions;

  private final Collection<List<DependencyNode>> paths;

  public UnsolvableVersionConflictException( Object dependencyConflictId, Collection<String> versions )
  {
      super( "Could not resolve version conflict for " + dependencyConflictId + " with requested versions "
          + toList( versions ) );
      this.dependencyConflictId = ( dependencyConflictId != null ) ? dependencyConflictId : "";
      this.versions = ( versions != null ) ? versions : Collections.<String> emptyList();
      this.paths = Collections.emptyList();
  }

  private static String toList( Collection<String> versions )
  {
```

```
    StringBuilder buffer = new StringBuilder( 256 );
    if ( versions != null )
    {
      for ( String version : versions )
      {
        if ( buffer.length() > 0 )

  {
          buffer.append( ", " );
        }
        buffer.append( version );
      }
    }
    return buffer.toString();
  }

  public UnsolvableVersionConflictException( Collection<List<DependencyNode>> paths, Object
dependencyConflictId )
  {
    super( "Could not resolve version conflict among " + toPaths( paths ) );
    this.dependencyConflictId = ( dependencyConflictId != null ) ? dependencyConflictId : "";
    if ( paths == null )
    {
      this.paths = Collections.emptyList();
      this.versions = Collections.emptyList();
    }
    else
    {
      this.paths = paths;
      this.versions = new LinkedHashSet<String>();
      for ( List<DependencyNode> path : paths )
      {
        VersionConstraint constraint = path.get( path.size() - 1 ).getVersionConstraint();
        if ( constraint != null && !constraint.getRanges().isEmpty() )

{
          versions.add( constraint.toString() );
        }
      }
    }
  }

  private static String toPaths( Collection<List<DependencyNode>> paths )
  {
    String result = "";

    if ( paths != null )
    {
```

```
            Collection<String> strings = new LinkedHashSet<String>();

            for ( List<DependencyNode> path : paths )
            {
                strings.add( toPath( path ) );
            }

            result = strings.toString();
        }

        return result;
    }

    private static String toPath( List<DependencyNode> path )
    {
        StringBuilder buffer = new StringBuilder( 256 );

        for ( Iterator<DependencyNode> it = path.iterator(); it.hasNext(); )
        {
            DependencyNode node = it.next();
            if ( node.getDependency() == null )
            {
                continue;
            }

            Artifact artifact = node.getDependency().getArtifact();
            buffer.append( artifact.getGroupId()
);
            buffer.append( ':' ).append( artifact.getArtifactId() );
            buffer.append( ':' ).append( artifact.getExtension() );
            if ( artifact.getClassifier().length() > 0 )
            {
                buffer.append( ':' ).append( artifact.getClassifier() );
            }
            buffer.append( ':' ).append( node.getVersionConstraint() );

            if ( it.hasNext() )
            {
                buffer.append( " -> " );
            }
        }

        return buffer.toString();
    }

    /**
     * Gets the conflict id of the dependency that encountered the version conflict.
     *
```

```
     * @return The conflict id, never {@code null}.
     */
    public Object getDependencyConflictId()
    {
        return dependencyConflictId;
    }

    /**
     * Gets the paths leading to the conflicting dependencies.
     *
     * @return The (read-only) paths leading to the conflicting dependencies, never {@code null}.
     */
    public Collection<List<DependencyNode>>
  getPaths()
    {
        return paths;
    }

    /**
     * Gets the conflicting version constraints of the dependency.
     *
     * @return The (read-only) conflicting version constraints, never {@code null}.
     */
    public Collection<String> getVersions()
    {
        return versions;
    }

}
package org.sonatype.aether.repository;

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*******************************************************************************/

/**
* A policy controlling access to a repository. <em>Note:</em> Instances of this class are immutable and the
exposed
* mutators return new objects rather than changing the current instance.
*
* @author Benjamin Bentmann
*/
public final class RepositoryPolicy
{
```

```
/**
 * Never update locally cached data.
 */
public static final String UPDATE_POLICY_NEVER = "never";

/**
 * Always update locally cached data.
 */
public static final String UPDATE_POLICY_ALWAYS = "always";

 /**
 * Update locally cached data once a day.
 */
public static final String UPDATE_POLICY_DAILY = "daily";

/**
 * Update locally cached data every X minutes as given by "interval:X".
 */
public static final String UPDATE_POLICY_INTERVAL = "interval";

/**
 * Verify checksums and fail the resolution if they do not match.
 */
public static final String CHECKSUM_POLICY_FAIL = "fail";

/**
 * Verify checksums and warn if they do not match.
 */
public static final String CHECKSUM_POLICY_WARN = "warn";

/**
 * Do not verify checksums.
 */
public static final String CHECKSUM_POLICY_IGNORE = "ignore";

private final boolean enabled;

private final String updatePolicy;

private final String checksumPolicy;

/**
 * Creates a new policy with checksum warnings and daily update checks.
 */
public RepositoryPolicy()
{
   this( true, UPDATE_POLICY_DAILY, CHECKSUM_POLICY_WARN
```

```
);
  }

  /**
   * Creates a new policy with the specified settings.
   *
   * @param enabled A flag whether the associated repository should be accessed or not.
   * @param updatePolicy The update interval after which locally cached data from the repository is considered
stale
   *            and should be refetched, may be {@code null}.
   * @param checksumPolicy The way checksum verification should be handled, may be {@code null}.
   */
  public RepositoryPolicy( boolean enabled, String updatePolicy, String checksumPolicy )
  {
     this.enabled = enabled;
     this.updatePolicy = ( updatePolicy != null ) ? updatePolicy : "";
     this.checksumPolicy = ( checksumPolicy != null ) ? checksumPolicy : "";
  }

  /**
   * Indicates whether the associated repository should be contacted or not.
   *
   * @return {@code true} if the repository should be contacted, {@code false} otherwise.
   */
  public boolean isEnabled()
  {
     return
 enabled;
  }

  /**
   * Sets the enabled flag for the associated repository.
   *
   * @param enabled {@code true} if the repository should be contacted, {@code false} otherwise.
   * @return The new policy, never {@code null}.
   */
  public RepositoryPolicy setEnabled( boolean enabled )
  {
     if ( this.enabled == enabled )
     {
        return this;
     }
     return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
  }

  /**
   * Gets the update policy for locally cached data from the repository.
   *
```

```
     * @return The update policy, never {@code null}.
     */
    public String getUpdatePolicy()
    {
        return updatePolicy;
    }

    /**
     * Sets the update policy for locally cached data from the repository. Well-known policies are
     * {@link #UPDATE_POLICY_NEVER}, {@link #UPDATE_POLICY_ALWAYS}, {@link
#UPDATE_POLICY_DAILY} and
     * {@link #UPDATE_POLICY_INTERVAL}
     *
     * @param updatePolicy The
 update policy, may be {@code null}.
     * @return The new policy, never {@code null}.
     */
    public RepositoryPolicy setUpdatePolicy( String updatePolicy )
    {
        if ( this.updatePolicy.equals( updatePolicy ) )
        {
            return this;
        }
        return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
    }

    /**
     * Gets the policy for checksum validation.
     *
     * @return The checksum policy, never {@code null}.
     */
    public String getChecksumPolicy()
    {
        return checksumPolicy;
    }

    /**
     * Sets the policy for checksum validation. Well-known policies are {@link #CHECKSUM_POLICY_FAIL},
     * {@link #CHECKSUM_POLICY_WARN} and {@link #CHECKSUM_POLICY_IGNORE}.
     *
     * @param checksumPolicy The checksum policy, may be {@code null}.
     * @return The new policy, never {@code null}.
     */
    public RepositoryPolicy setChecksumPolicy( String checksumPolicy )
    {
        if ( this.checksumPolicy.equals(
 checksumPolicy ) )
        {
```

```
            return this;
        }
        return new RepositoryPolicy( enabled, updatePolicy, checksumPolicy );
    }

    @Override
    public String toString()
    {
        StringBuilder buffer = new StringBuilder( 256 );
        buffer.append( "enabled=" ).append( isEnabled() );
        buffer.append( ", checksums=" ).append( getChecksumPolicy() );
        buffer.append( ", updates=" ).append( getUpdatePolicy() );
        return buffer.toString();
    }

    @Override
    public boolean equals( Object obj )
    {
        if ( this == obj )
        {
            return true;
        }

        if ( obj == null || !getClass().equals( obj.getClass() ) )
        {
            return false;
        }

        RepositoryPolicy that = (RepositoryPolicy) obj;

        return enabled == that.enabled && updatePolicy.equals( that.updatePolicy )
            && checksumPolicy.equals( that.checksumPolicy );
    }

    @Override
    public int hashCode()
    {
         int hash = 17;
        hash = hash * 31 + ( enabled ? 1 : 0 );
        hash = hash * 31 + updatePolicy.hashCode();
        hash = hash * 31 + checksumPolicy.hashCode();
        return hash;
    }

}
```

1.15 maven-model 3.0.5

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1.16 maven-plugin-api 3.0.5

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1.17 maven-core 3.0.5

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1.18 maven-settings-builder 3.0.5

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1.20 aether-connector-wagon 1.13.1

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains
test data from http://aspell.sourceforge.net/test/batch0.tab.

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1.22 plexus-cipher 1.7

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```
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* createCipher routine was adopted from http://juliusdavies.ca/svn/not-yet-commons-ssl/tags/commons-ssl-
0.3.10/src/java/org/apache/commons/ssl/OpenSSL.java
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*/
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* /plexus-cipher-1-7-sources-jar/org/sonatype/plexus/components/cipher/PlexusCipher.java
* /plexus-cipher-1-7-sources-jar/org/sonatype/plexus/components/cipher/PlexusCipherException.java
* /plexus-cipher-1-7-sources-jar/org/sonatype/plexus/components/cipher/DefaultPlexusCipher.java

1.23 libmnl 1.0.4

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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

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

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

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,

i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

a) Accompany the work with the complete corresponding

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the
Sections above.

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

8. You may not copy, modify, sublicense, link with, or distribute
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attempt otherwise to copy, modify, sublicense, link with, or
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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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Each
version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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

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

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

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

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

1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited

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content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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

6. Conveying Non-Source Forms.

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

in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source

as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in

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1.34 sbsigntool 1.3

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1.35 sharutils 4.15

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1.36 dmalloc 5.5.2

1.37 libdaemon 0.14

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1.38 luajit 2.1.0

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1.39 zeromq 4.2.3

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1.41 sisu-guice 3.1.0

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* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/object/ObjectInterpolator.java
* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/AbstractValueSource.java
*
/plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/SimpleRecursionInterceptor.java
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* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/multi/DelimiterSpecification.java
* /plexus-interpolation-1-14-sources-jar/org/codehaus/plexus/interpolation/SingleResponseValueSource.java

1.43 net-tools 2.10

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1.45 ipmi-tool 1.8.18

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1.46 libart 2.3.21

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1.47 net-snmp 5.8

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* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/NoSuchRealmException.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ConfigurationException.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ClassWorldException.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ClassRealm.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/DuplicateRealmException.java
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* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/Launcher.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ClassRealmAdapter.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/Configurator.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/BytesURLStreamHandler.java
*
 /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ConfiguratorAdapter.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/BytesURLConnection.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ClassRealmReverseAdapter.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/strategy/OsgiBundleStrategy.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ClassWorldReverseAdapter.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ClassWorldAdapter.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/DefaultClassRealm.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/classworlds/ClassWorld.java
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Found in path(s):
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationHandler.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/strategy/AbstractStrategy.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/launcher/Launcher.java
*
 /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/strategy/Strategy.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/strategy/StrategyFactory.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationParser.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/UrlUtils.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/realm/Entry.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/realm/NoSuchRealmException.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/ClassWorldListener.java

* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/ClassWorldException.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/realm/ClassRealm.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/ClassWorld.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/launcher/Configurator.java
*
/plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationException.java
* /plexus-classworlds-2-4-sources-jar/org/codehaus/plexus/classworlds/realm/DuplicateRealmException.java

1.49 python-requests 2.22.0

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1.50 urllib3 1.25.3

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

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

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

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

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

* Stephen Holsapple <sholsapp@gmail.com>

* Added abstraction for granular control of request fields

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

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

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

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

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

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

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

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

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

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

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

* Adam Talsma <https://github.com/a-tal>

* Bugfix to ca_cert file paths.

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

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

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

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

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

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

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

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

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

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

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

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

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

* Tom White <s6yg1ez3@mail2tor.com>

* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

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

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

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

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

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

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

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

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

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

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

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

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

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

* Justin Bramley <https://github.com/jbramleycl>

* Add ability to handle multiple Content-Encodings

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

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

1.51 lsof 4.91

1.51.1 Available under license :

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1.53 cyrus-sasl 2.1.27

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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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1.59 pkg-config 0.29.2

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Contributions to the urllib3 project

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Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

* Cory Benfield
 <https://lukasa.co.uk/about/>
 * Stream method for Response objects.

 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.

 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

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

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

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

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

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

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

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

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

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

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

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

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

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

* Chris Wilcox <git@crwilcox.com>

* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

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

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

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

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

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

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

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

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

1.62 inf 0.9.1

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-
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platforms.
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- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any

other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll
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and valid for as
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the

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

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

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6b.

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1.67 go-difflib 1.0.0

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1.68 wireless-tools 30.pre9

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1.74 godbus 5.0.3

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1.75 cpio 2.13

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1.77 fontconfig 2.13.1

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1.78 libffi 3.3

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1.82 sed 4.8

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1.83 tcp-wrappers 7.6

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1.84 make 4.3

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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<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.
=2Dmike

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > > I understand that, and you're welcome to bring it up with Alec
> directly
> > > and see if he wants to relicense his code as LGPL... but at this
> point,
> > > it was enough to just get it consistent and documented as to what
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> not
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>=20
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> 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
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> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > 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.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 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.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>

> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> 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

1.86 libnl3 3.5.0

1.86.1 Available under license :

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Version 2.1, February 1999

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the version number 2.1.]

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Finally, software
patents pose a constant threat to the existence of
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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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another language. (Hereinafter, translation is
included without limitation in the term "modification".)

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

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

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uses the
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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
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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

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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.

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1. Source Code.

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1.92 sg3-utils 1.45

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

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/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
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   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
```

```
   *           deprecated.
   * @param name
   *           the method's name.
   * @param desc
   *           the method's descriptor (see {@link Type}).
   * @param signature
   *           the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *           the internal names of the method's exception classes (see
   *           {@link Type#getInternalName() getInternalName}). May be
   *           <tt>null</tt>.
   * @throws IllegalStateException
   *            If a subclass calls this constructor.
   */
```

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*
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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Frame.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Type.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InsnList.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Handler.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/InstructionAdapter.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Printer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/ASMifier.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Edge.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Item.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/Opcodes.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java

* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Attribute.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SmallSet.java
*
 /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassReader.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ByteVector.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
*
 /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Label.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Handle.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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*/
/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/ClassNode.java
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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/Processor.java

* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXClassAdapter.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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*/
/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Textifier.java

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1.96 popt 1.18

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h

src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex .

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the
same patterns as the file
`frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex .

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
patterns as the files `dehypht-x-2017-03-31.pat' and
`dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
at

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. The file `tmac/hyphen.cs' contains the same patterns as the file
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1.115 gettext 0.21

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

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free library does the
same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

The ``Library'', below, refers to any such software library or work which has been distributed under these terms.  A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,
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``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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The modified work must itself be a software library.

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

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

@item

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

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

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entire whole, and thus to each and every part regardless of who wrote
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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
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therefore falls outside the scope of this License.

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

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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
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copyright notice for the Library among them, as well as a reference
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@enumerate a
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
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properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the

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specified materials from the same place.

@item
Verify that the user has already received a copy of these
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@enumerate a
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@var{signature of Ty Coon}, 1 April 1989
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^L
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(This file is under construction.) -*- text -*-

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

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

++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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Version 3, 29 June 2007

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and valid for as
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Corresponding Source in
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1.120 pycrypto 2.6.1

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~~~~~~

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~~~~~~

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Last updated: 2009-02-28

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=== EOF ===

1.121 colorama 0.4.1

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1.122 pyparsing 2.4.7

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1.124 jackson-databind 2.12.0

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1.125 jackson 2.12.0

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1.126 pexpect 4.8.0

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1.127 sanitized-anchor-name 1.0.0

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1.128 python-requests 2.25.1

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1.134 ebtables 2.0.11

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1.135 libusb 1.0.24

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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
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1.136 kmod 28

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1.138 smartmontools 7.2

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by
including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple`
by including `<boost/mp11/mpl_tuple.hpp>`. This may be required
because some libraries, such as Boost.Fusion, contain their own MPL
support for `std::tuple`, which conflicts with Mp11's one.
<!DOCTYPE html>
<html>
 <head></head>
 <body>
  <h3>
   Copyright Test
  </h3>

   1963, 1964, 1965 Jane Doe

   2018 Joe Blow, John Coe

1977, 1985 Someone else
</p>
</body>
</html>
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xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
  <copyright>
   <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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1.142 iptables 1.8.7

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```
# **************************************************************************
# Refer to the XF86Config(4/5) man page for details about the format of
# this file.
# **************************************************************************

# NOTE:  This is a NEW IMPROVED version of XF86Config-fbdev that uses the vesa
# driver instead of the fbdev driver.  Thanks to Kenneth Fanyo who pointed
# this out to me. :)

# This XF86Config file is designed for use with the VESA framebuffer.
# This generic interface should work with nearly all video cards
# (although
 not every card will support every resolution).

# With the new driver, it should no longer be required to have frame buffer
# support in the kernel, or to run it on the console.
#
# Enjoy! :)
# -- volkerdi@slackware.com
#

# **************************************************************************
# Module section -- this  section  is used to specify
# which dynamically loadable modules to load.
# **************************************************************************
#
Section "Module"

# This loads the DBE extension module.

  Load       "dbe"   # Double buffer extension

# This loads the miscellaneous extensions module, and disables
# initialisation of the XFree86-DGA extension within that module.
  SubSection  "extmod"
    Option    "omit xfree86-dga"   # don't initialise the DGA extension
  EndSubSection

# This loads the font modules
  Load       "type1"
  Load       "freetype"
  Load       "speedo"

# This loads the GLX module
  Load      "glx"

EndSection
```

```
#
 ****************************************************************************
# Files section.  This allows default font and rgb paths to be set
# ****************************************************************************

Section "Files"

# The location of the RGB database.  Note, this is the name of the
# file minus the extension (like ".txt" or ".db").  There is normally
# no need to change the default.

   RgbPath "/usr/X11R6/lib/X11/rgb"

# Multiple FontPath entries are allowed (which are concatenated together),
# as well as specifying multiple comma-separated entries in one FontPath
# command (or a combination of both methods)
#
# If you don't have a floating point coprocessor and emacs, Mosaic or other
# programs take long to start up, try moving the Type1 and Speedo directory
# to the end of this list (or comment them out).
#

   FontPath   "/usr/X11R6/lib/X11/fonts/local/"
   FontPath   "/usr/X11R6/lib/X11/fonts/misc/"
   FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/:unscaled"
    FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/:unscaled"
   FontPath   "/usr/X11R6/lib/X11/fonts/Type1/"
   FontPath   "/usr/X11R6/lib/X11/fonts/CID/"
   FontPath   "/usr/X11R6/lib/X11/fonts/Speedo/"
   FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/"
   FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/"
   FontPath   "/usr/X11R6/lib/X11/fonts/cyrillic/"

# ModulePath can be used to set a search path for the X server modules.
# The default path is shown here.

#    ModulePath "/usr/X11R6/lib/modules"

EndSection

# ****************************************************************************
# Server flags section.
# ****************************************************************************

Section "ServerFlags"

# Uncomment this to cause a core dump at the spot where a signal is
```

```
# received.  This may leave the console in an unusable state, but may
# provide a better stack trace in the core dump to aid in debugging

#    Option     "NoTrapSignals"

# Uncomment this to disable the <Crtl><Alt><Fn>
 VT switch sequence
# (where n is 1 through 12).  This allows clients to receive these key
# events.

#    Option     "DontVTSwitch"

# Uncomment this to disable the <Crtl><Alt><BS> server abort sequence
# This allows clients to receive this key event.

#    Option     "DontZap"

# Uncomment this to disable the <Crtl><Alt><KP_+>/<KP_-> mode switching
# sequences.  This allows clients to receive these key events.

#    Option     "DontZoom"

# Uncomment this to disable tuning with the xvidtune client. With
# it the client can still run and fetch card and monitor attributes,
# but it will not be allowed to change them. If it tries it will
# receive a protocol error.

#    Option     "DisableVidModeExtension"

# Uncomment this to enable the use of a non-local xvidtune client.

#    Option     "AllowNonLocalXvidtune"

# Uncomment this to disable dynamically modifying the input device
# (mouse and keyboard) settings.

#    Option     "DisableModInDev"

# Uncomment this to enable the use of a
 non-local client to
# change the keyboard or mouse settings (currently only xset).

#    Option     "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

#    Option      "blank time"    "10"    # 10 minutes
```

```
# Set the DPMS timeouts.  These are set here because they are global
# rather than screen-specific.  These settings alone don't enable DPMS.
# It is enabled per-screen (or per-monitor), and even then only when
# the driver supports it.

#    Option      "standby time"  "20"
#    Option      "suspend time"  "30"
#    Option      "off time"      "60"

# On some platform the server needs to estimate the sizes of PCI
# memory and pio ranges. This is done by assuming that PCI ranges
# don't overlap. Some broken BIOSes tend to set ranges of inactive
# devices wrong. Here one can adjust how aggressive the assumptions
# should be. Default is 0.

# Option   "EstimateSizesAggresively" "0"

EndSection

# **********************************************************************
#
 Input devices
# **********************************************************************

# **********************************************************************
# Core keyboard's InputDevice section
# **********************************************************************

Section "InputDevice"

   Identifier "Keyboard1"
   Driver "Keyboard"
# For most OSs the protocol can be omitted (it defaults to "Standard").
# When using XQUEUE (only for SVR3 and SVR4, but not Solaris),
# uncomment the following line.

#    Option     "Protocol"      "Xqueue"

# Set the keyboard auto repeat parameters.  Not all platforms implement
# this.

#    Option     "AutoRepeat"    "500 5"

# Specifiy which keyboard LEDs can be user-controlled (eg, with xset(1)).

#    Option     "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.
```

```
#    Option     "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults).  For example,
 for a European
# keyboard, you will probably want to use one of:
#
#    Option     "XkbModel"      "pc102"
#    Option     "XkbModel"      "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:
#
#    Option     "XkbModel"      "microsoft"
#
# If you have a US "windows" keyboard you will want:
#
#    Option     "XkbModel"      "pc104"
#
# Then to change the language, change the Layout setting.
# For example, a german layout can be obtained with:
#
#    Option     "XkbLayout"     "de"
#
# or:
#
#    Option     "XkbLayout"     "de"
#    Option     "XkbVariant"    "nodeadkeys"
#
# If you'd like to switch the positions of your capslock and
# control keys, use:
#
#    Option     "XkbOptions"    "ctrl:swapcaps"


# These are the default XKB settings for XFree86
#
#    Option     "XkbRules"      "xfree86"
#    Option     "XkbModel"      "pc101"
#    Option     "XkbLayout"     "us"
#    Option     "XkbVariant"    ""
#    Option     "XkbOptions"    ""

EndSection


# **********************************************************************
#
```

```
 Core Pointer's InputDevice section
# **********************************************************************

Section "InputDevice"

# Identifier and driver

   Identifier "Mouse1"
   Driver "mouse"

# On platforms where PnP mouse detection is supported the following
# protocol setting can be used when using a newer PnP mouse:

#    Option     "Protocol"      "Auto"

# The available mouse protocols types that you can set below are:
#    Auto BusMouse GlidePoint GlidePointPS/2 IntelliMouse IMPS/2
#    Logitech Microsoft MMHitTab MMSeries Mouseman MouseManPlusPS/2
#    MouseSystems NetMousePS/2 NetScrollPS/2 OSMouse PS/2 SysMouse
#    ThinkingMouse ThinkingMousePS/2 Xqueue
   Option "Protocol"    "PS/2"

# The mouse device.  The device is normally set to /dev/mouse,
# which is usually a symbolic link to the real device.

   Option "Device"      "/dev/mouse"
#   Option "Device"      "/dev/psaux"
#   Option "Device"      "/dev/ttyS0"
#
   Option "Device"      "/dev/ttyS1"

# When using XQUEUE, comment out the above two lines, and uncomment
# the following line.

#    Option "Protocol" "Xqueue"

# Baudrate and SampleRate are only for some Logitech mice. In
# almost every case these lines should be omitted.

#    Option "BaudRate"  "9600"
#    Option "SampleRate" "150"

# Emulate3Buttons is an option for 2-button Microsoft mice
# Emulate3Timeout is the timeout in milliseconds (default is 50ms)

#    Option "Emulate3Buttons"
#    Option "Emulate3Timeout"    "50"
```

```
# ChordMiddle is an option for some 3-button Logitech mice

#    Option "ChordMiddle"

EndSection

# Some examples of extended input devices

# Section "InputDevice"
#    Identifier "spaceball"
#    Driver     "magellan"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "spaceball2"
#    Driver     "spaceorb"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier
 "touchscreen0"
#    Driver     "microtouch"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "1412"
#    Option     "MaxX"          "15184"
#    Option     "MinY"          "15372"
#    Option     "MaxY"          "1230"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonNumber"  "1"
#    Option     "SendCoreEvents"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen1"
#    Driver     "elo2300"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "231"
#    Option     "MaxX"          "3868"
#    Option     "MinY"          "3858"
#    Option     "MaxY"          "272"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonThreshold"       "17"
#    Option     "ButtonNumber"  "1"
#    Option     "SendCoreEvents"
```

```
# EndSection

# **** Monitor section
# ********************************************************************

#
 Any number of monitor sections may be present

Section "Monitor"

  Identifier  "My Monitor"

# HorizSync is in kHz unless units are specified.
# HorizSync may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

  HorizSync   31.5 - 50.0

#    HorizSync 30-64         # multisync
#    HorizSync 31.5, 35.2    # multiple fixed sync frequencies
#    HorizSync 15-25, 30-50  # multiple ranges of sync frequencies

# VertRefresh is in Hz unless units are specified.
# VertRefresh may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

  VertRefresh 40-90

EndSection


# ********************************************************************
#
 Graphics device section
# ********************************************************************

# Any number of graphics device sections may be present

Section "Device"
  Identifier  "VESA Framebuffer"
  Driver      "vesa"
  #VideoRam    4096
  # Insert Clocks lines here if appropriate
```

```
EndSection

# **********************************************************************
# Screen sections
# **********************************************************************

# Any number of screen sections may be present.  Each describes
# the configuration of a single screen.  A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.
Section "Screen"
  Identifier  "Screen 1"
  Device      "VESA Framebuffer"
  Monitor     "My Monitor"

# If your card can handle it, a higher default color depth (like 24 or 32)
# is highly recommended.

#   DefaultDepth 8
#   DefaultDepth 16
  DefaultDepth 24
#   DefaultDepth 32

# "1024x768"
 is also a conservative usable default resolution.  If you
# have a better monitor, feel free to try resolutions such as
# "1152x864", "1280x1024", "1600x1200", and "1800x1400" (or whatever your
# card/monitor can produce)

  Subsection "Display"
     Depth       8
     Modes "1024x768" "800x600" "640x480"
  EndSubsection
  Subsection "Display"
     Depth       16
     Modes "1024x768" "800x600" "640x480"
  EndSubsection
  Subsection "Display"
     Depth       24
     Modes "1024x768" "800x600" "640x480"
  EndSubsection
  Subsection "Display"
     Depth       32
     Modes "1024x768" "800x600" "640x480"
  EndSubsection

EndSection
```

```
# ****************************************************************************
# ServerLayout sections.
# ****************************************************************************

# Any number of ServerLayout sections may be present.  Each describes
# the way multiple screens are organised.  A specific ServerLayout
# section
 may be specified from the X server command line with the
# "-layout" option.  In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.

Section "ServerLayout"

# The Identifier line must be present
   Identifier  "Simple Layout"

# Each Screen line specifies a Screen section name, and optionally
# the relative position of other screens.  The four names after
# primary screen name are the screens to the top, bottom, left and right
# of the primary screen.  In this example, screen 2 is located to the
# right of screen 1.

   Screen "Screen 1"

# Each InputDevice line specifies an InputDevice section name and
# optionally some options to specify the way the device is to be
# used.  Those options include "CorePointer", "CoreKeyboard" and
# "SendCoreEvents".

   InputDevice "Mouse1" "CorePointer"
   InputDevice "Keyboard1" "CoreKeyboard"

EndSection
```

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**
Refer to the XF86Config(4/5) man page for details about the format of
this file.
**

This XF86Config file is designed for use with the Linux framebuffer console.
This generic interface should work with nearly all video cards (although
not every card will support every resolution). To use the Linux framebuffer
console, you need to enable these kernel options:
Using 'make menuconfig', in
 'console drivers', enable:
[*] VGA text console

```
#   [*] Video mode selection support
#   [*] Support for frame buffer devices (EXPERIMENTAL)
#   [*] VESA VGA graphics console
#   [*] Advanced low level driver options
#   <*> 8 bpp packed pixels support
#   <*> 16 bpp packed pixels support
#   <*> 24 bpp packed pixels support
#   <*> 32 bpp packed pixels support
#   <*> VGA characters/attributes support
#   [*] Select compiled-in fonts
#   [*]   VGA 8x8 font
#   [*]   VGA 8x16 font
# If you have a Matrox or ATI Mach64, you might try enabling the options having
# to do with those cards as well.  However, if the card is VESA compliant, you
# don't really need to (and it might cause problems, possibly)
#
# Next, if this file is not already named /etc/X11/XF86Config, make a copy
# with that name.  This file ships with the name XF86Config-fbdev to avoid
# overwriting an existing config file.
#
# To get the kernel to start in VESA framebuffer mode, you need to pass it
# a vga= init string
 at boot time.  For example, if you use LILO you'll
# probably find a vga=normal string in your /etc/lilo.conf.  If you edit that
# to one of the values in this table:
#
#   Colours   640x480 800x600 1024x768 1280x1024 1600x1200
#  --------+-----------------------------------------------
#  256     |  769     771     773      775       796
#  32,768  |  784     787     790      793       797
#  65,536  |  785     788     791      794       798
#  16.8M   |  786     789     792      795       799
#
#  ...such as this for 1024x768x64k:
#  vga = 791
#  and then reinstall LILO by running 'lilo' as root, then at the next boot
#  Linux should start in a VESA framebuffer console mode.
#
# For more information on how to activate the Linux frame buffer, see
# /usr/src/linux/Documentation/fb/vesafb.txt.
#
# Enjoy! :)
# -- volkerdi@slackware.com
#

# ***************************************************************************
# Module section -- this  section  is used to specify
# which dynamically
```

```
 loadable modules to load.
# ****************************************************************************
#
Section "Module"

# This loads the DBE extension module.

   Load       "dbe"   # Double buffer extension

# This loads the miscellaneous extensions module, and disables
# initialisation of the XFree86-DGA extension within that module.
   SubSection  "extmod"
     Option    "omit xfree86-dga"   # don't initialise the DGA extension
   EndSubSection

# This loads the font modules
   Load       "type1"
   Load       "freetype"
   Load       "speedo"

# This loads the GLX module
   Load      "glx"

EndSection

# ****************************************************************************
# Files section.  This allows default font and rgb paths to be set
# ****************************************************************************

Section "Files"

# The location of the RGB database.  Note, this is the name of the
# file minus the extension (like ".txt" or ".db").  There is normally
# no
 need to change the default.

   RgbPath "/usr/X11R6/lib/X11/rgb"

# Multiple FontPath entries are allowed (which are concatenated together),
# as well as specifying multiple comma-separated entries in one FontPath
# command (or a combination of both methods)
#
# If you don't have a floating point coprocessor and emacs, Mosaic or other
# programs take long to start up, try moving the Type1 and Speedo directory
# to the end of this list (or comment them out).
#

   FontPath   "/usr/X11R6/lib/X11/fonts/local/"
```

```
   FontPath   "/usr/X11R6/lib/X11/fonts/misc/"
   FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/:unscaled"
   FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/:unscaled"
   FontPath   "/usr/X11R6/lib/X11/fonts/Type1/"
   FontPath   "/usr/X11R6/lib/X11/fonts/CID/"
   FontPath   "/usr/X11R6/lib/X11/fonts/Speedo/"
   FontPath   "/usr/X11R6/lib/X11/fonts/75dpi/"
   FontPath   "/usr/X11R6/lib/X11/fonts/100dpi/"
   FontPath   "/usr/X11R6/lib/X11/fonts/cyrillic/"

# ModulePath can be
 used to set a search path for the X server modules.
# The default path is shown here.

#    ModulePath "/usr/X11R6/lib/modules"

EndSection

# **********************************************************************
# Server flags section.
# **********************************************************************

Section "ServerFlags"

# Uncomment this to cause a core dump at the spot where a signal is
# received.  This may leave the console in an unusable state, but may
# provide a better stack trace in the core dump to aid in debugging

#    Option     "NoTrapSignals"

# Uncomment this to disable the <Crtl><Alt><Fn> VT switch sequence
# (where n is 1 through 12).  This allows clients to receive these key
# events.

#    Option     "DontVTSwitch"

# Uncomment this to disable the <Crtl><Alt><BS> server abort sequence
# This allows clients to receive this key event.

#    Option     "DontZap"

# Uncomment this to disable the <Crtl><Alt><KP_+>/<KP_-> mode switching
# sequences.  This allows
 clients to receive these key events.

#    Option     "DontZoom"

# Uncomment this to disable tuning with the xvidtune client. With
```

```
# it the client can still run and fetch card and monitor attributes,
# but it will not be allowed to change them. If it tries it will
# receive a protocol error.

#    Option     "DisableVidModeExtension"

# Uncomment this to enable the use of a non-local xvidtune client.

#    Option     "AllowNonLocalXvidtune"

# Uncomment this to disable dynamically modifying the input device
# (mouse and keyboard) settings.

#    Option     "DisableModInDev"

# Uncomment this to enable the use of a non-local client to
# change the keyboard or mouse settings (currently only xset).

#    Option     "AllowNonLocalModInDev"

# Set the basic blanking screen saver timeout.

#    Option      "blank time"    "10"    # 10 minutes

# Set the DPMS timeouts.  These are set here because they are global
# rather than screen-specific.  These settings alone don't enable DPMS.
# It
 is enabled per-screen (or per-monitor), and even then only when
# the driver supports it.

#    Option      "standby time"  "20"
#    Option      "suspend time"  "30"
#    Option      "off time"      "60"

# On some platform the server needs to estimate the sizes of PCI
# memory and pio ranges. This is done by assuming that PCI ranges
# don't overlap. Some broken BIOSes tend to set ranges of inactive
# devices wrong. Here one can adjust how aggressive the assumptions
# should be. Default is 0.

# Option   "EstimateSizesAggresively" "0"

EndSection

# **********************************************************************
# Input devices
# **********************************************************************
```

```
# **********************************************************************
# Core keyboard's InputDevice section
# **********************************************************************

Section "InputDevice"

  Identifier "Keyboard1"
  Driver "Keyboard"
# For most OSs the protocol
 can be omitted (it defaults to "Standard").
# When using XQUEUE (only for SVR3 and SVR4, but not Solaris),
# uncomment the following line.

#    Option     "Protocol"      "Xqueue"

# Set the keyboard auto repeat parameters.  Not all platforms implement
# this.

#    Option     "AutoRepeat"    "500 5"

# Specifiy which keyboard LEDs can be user-controlled (eg, with xset(1)).

#    Option     "Xleds" "1 2 3"

# To disable the XKEYBOARD extension, uncomment XkbDisable.

#    Option     "XkbDisable"

# To customise the XKB settings to suit your keyboard, modify the
# lines below (which are the defaults).  For example, for a European
# keyboard, you will probably want to use one of:
#
#    Option     "XkbModel"      "pc102"
#    Option     "XkbModel"      "pc105"
#
# If you have a Microsoft Natural keyboard, you can use:
#
#    Option     "XkbModel"      "microsoft"
#
# If you have a US "windows" keyboard you will want:
#
#    Option     "XkbModel"      "pc104"
#
# Then to change the language,
 change the Layout setting.
# For example, a german layout can be obtained with:
#
#    Option     "XkbLayout"     "de"
```

```
#
# or:
#
#    Option     "XkbLayout"     "de"
#    Option     "XkbVariant"    "nodeadkeys"
#
# If you'd like to switch the positions of your capslock and
# control keys, use:
#
#    Option     "XkbOptions"    "ctrl:swapcaps"


# These are the default XKB settings for XFree86
#
#    Option     "XkbRules"      "xfree86"
#    Option     "XkbModel"      "pc101"
#    Option     "XkbLayout"     "us"
#    Option     "XkbVariant"    ""
#    Option     "XkbOptions"    ""

EndSection


# **********************************************************************
# Core Pointer's InputDevice section
# **********************************************************************

Section "InputDevice"

# Identifier and driver

   Identifier "Mouse1"
   Driver "mouse"

# On platforms where PnP mouse detection is supported the following
# protocol setting can be used when using a newer
 PnP mouse:

#    Option     "Protocol"      "Auto"

# The available mouse protocols types that you can set below are:
#    Auto BusMouse GlidePoint GlidePointPS/2 IntelliMouse IMPS/2
#    Logitech Microsoft MMHitTab MMSeries Mouseman MouseManPlusPS/2
#    MouseSystems NetMousePS/2 NetScrollPS/2 OSMouse PS/2 SysMouse
#    ThinkingMouse ThinkingMousePS/2 Xqueue
   Option "Protocol"    "PS/2"

# The mouse device.  The device is normally set to /dev/mouse,
```

```
# which is usually a symbolic link to the real device.

   Option "Device"      "/dev/mouse"
#   Option "Device"      "/dev/psaux"
#   Option "Device"      "/dev/ttyS0"
#   Option "Device"      "/dev/ttyS1"

# When using XQUEUE, comment out the above two lines, and uncomment
# the following line.

#    Option "Protocol" "Xqueue"

# Baudrate and SampleRate are only for some Logitech mice. In
# almost every case these lines should be omitted.

#    Option "BaudRate"  "9600"
#    Option "SampleRate" "150"

# Emulate3Buttons is an option
 for 2-button Microsoft mice
# Emulate3Timeout is the timeout in milliseconds (default is 50ms)

#    Option "Emulate3Buttons"
#    Option "Emulate3Timeout"    "50"

# ChordMiddle is an option for some 3-button Logitech mice

#    Option "ChordMiddle"

EndSection

# Some examples of extended input devices

# Section "InputDevice"
#    Identifier "spaceball"
#    Driver     "magellan"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "spaceball2"
#    Driver     "spaceorb"
#    Option     "Device"        "/dev/cua0"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen0"
#    Driver     "microtouch"
```

```
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "1412"
#    Option     "MaxX"          "15184"
#    Option     "MinY"          "15372"
#    Option     "MaxY"          "1230"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonNumber"  "1"
#    Option
   "SendCoreEvents"
# EndSection
#
# Section "InputDevice"
#    Identifier "touchscreen1"
#    Driver     "elo2300"
#    Option     "Device"        "/dev/ttyS0"
#    Option     "MinX"          "231"
#    Option     "MaxX"          "3868"
#    Option     "MinY"          "3858"
#    Option     "MaxY"          "272"
#    Option     "ScreenNumber"  "0"
#    Option     "ReportingMode" "Scaled"
#    Option     "ButtonThreshold"       "17"
#    Option     "ButtonNumber"  "1"
#    Option     "SendCoreEvents"
# EndSection

# ********************************************************************
# Monitor section
# ********************************************************************

# Any number of monitor sections may be present

Section "Monitor"

   Identifier  "My Monitor"

# HorizSync is in kHz unless units are specified.
# HorizSync may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR
 MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

   HorizSync   31.5 - 50.0

#    HorizSync 30-64         # multisync
#    HorizSync 31.5, 35.2    # multiple fixed sync frequencies
```

```
#    HorizSync 15-25, 30-50  # multiple ranges of sync frequencies

# VertRefresh is in Hz unless units are specified.
# VertRefresh may be a comma separated list of discrete values, or a
# comma separated list of ranges of values.
# NOTE: THE VALUES HERE ARE EXAMPLES ONLY.  REFER TO YOUR MONITOR'S
# USER MANUAL FOR THE CORRECT NUMBERS.

   VertRefresh 40-90

EndSection


# **************************************************************************
# Graphics device section
# **************************************************************************

# Any number of graphics device sections may be present

Section "Device"
   Identifier  "VESA Framebuffer"
   Driver      "fbdev"
   #VideoRam    4096
   # Insert Clocks lines here if appropriate
EndSection

# **************************************************************************
#
 Screen sections
# **************************************************************************

# Any number of screen sections may be present.  Each describes
# the configuration of a single screen.  A single specific screen section
# may be specified from the X server command line with the "-screen"
# option.
Section "Screen"
   Identifier  "Screen 1"
   Device      "VESA Framebuffer"
   Monitor     "My Monitor"

# You shouldn't need to set a default depth as the server will use
# whatever the framebuffer is set to.  If you insist on setting it, make
# sure it matches the setting for your framebuffer.
#   DefaultDepth 8

   Subsection "Display"
      Depth       8
   EndSubsection
```

```
  Subsection "Display"
    Depth       16
  EndSubsection
  Subsection "Display"
    Depth       24
  EndSubsection
  Subsection "Display"
    Depth       32
  EndSubsection

EndSection

# ********************************************************************
#
 ServerLayout sections.
# ********************************************************************

# Any number of ServerLayout sections may be present.  Each describes
# the way multiple screens are organised.  A specific ServerLayout
# section may be specified from the X server command line with the
# "-layout" option.  In the absence of this, the first section is used.
# When now ServerLayout section is present, the first Screen section
# is used alone.

Section "ServerLayout"

# The Identifier line must be present
  Identifier  "Simple Layout"

# Each Screen line specifies a Screen section name, and optionally
# the relative position of other screens.  The four names after
# primary screen name are the screens to the top, bottom, left and right
# of the primary screen.  In this example, screen 2 is located to the
# right of screen 1.

  Screen "Screen 1"

# Each InputDevice line specifies an InputDevice section name and
# optionally some options to specify the way the device is to
 be
# used.  Those options include "CorePointer", "CoreKeyboard" and
# "SendCoreEvents".

  InputDevice "Mouse1" "CorePointer"
  InputDevice "Keyboard1" "CoreKeyboard"

EndSection
```

Found in path(s):
* /pkgtools-tar-gz/etc/X11/XF86Config-fbdev

1.146 efibootmgr 17

1.146.1 Available under license :

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1.156 hd-parm 9.60

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1. Seti UI - A subtle dark colored UI theme for Atom. (https://github.com/jesseweed/seti-ui)

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1.159 rrdtool 1.7.2

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1.161 lm-sensors 3.6.0

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1.162 protobuf-c 1.3.3

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1.163 wagon-provider-api 2.4

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1.164 wagon-http 2.4

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1.165 wagon-http-shared4 2.4

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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.

@item
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:

@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
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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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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
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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
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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
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Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

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

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

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

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

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

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

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

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

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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

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

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

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

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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copyright notice for the Library among them, as well as a reference
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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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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the user installs one, as long as the modified version is
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1.176 libtirpc 1.3.1

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1.177 findutils 4.8.0

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

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

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1.178 grep 3.6

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1.186 xml-commons-resolver 1.1

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1.187 iproute 5.11.0

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1.191 strace 5.11

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1.192 sqlite 3.35.0

1.192.1 Available under license :

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/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was

```
* written by Colin Plumb in 1993, no copyright is claimed.
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*
* Equivalent code is available from RSA Data Security, Inc.
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* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/md5.c
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```
# 2001 September 15
#
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# 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 implements regression tests for SQLite library.  The
# focus of this file is testing built-in functions.
#
# $Id: func.test,v 1.16.2.2 2004/07/18 21:14:05 drh Exp $

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
 execsql {CREATE TABLE tbl1(t1 text)}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
 execsql {
    CREATE TABLE t2(a);
```

```
  INSERT INTO t2 VALUES(1);
   INSERT INTO t2 VALUES(NULL);
   INSERT INTO t2 VALUES(345);
   INSERT INTO t2 VALUES(NULL);
   INSERT INTO t2 VALUES(67890);
   SELECT * FROM t2;
 }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
 set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
 set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
 execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
        ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
 execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
}
 {fr is pr so th}
do_test func-2.1 {
 execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
 execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
 execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
```

```
} {e s m e s}
do_test func-2.5 {
 execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
 execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
 execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
 execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
 execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
 execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities and
# the
 UTF-8 encoding is turned on in the SQLite library.
#
if {[sqlite -encoding]=="UTF-8" && "\u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
 execsql {DELETE FROM tbl1}
 foreach word "contains UTF-8 characters hi\u1234ho" {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
 execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
 execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
```

```
 execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
 execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
 execsql {SELECT
 substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
 execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
 execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
 execsql {DELETE FROM tbl1}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End [sqlite -encoding]==UTF-8 and \u1234!=u1234

# Test the abs() and round() functions.
#
do_test func-4.1 {
 execsql {
   CREATE TABLE t1(a,b,c);
   INSERT INTO t1 VALUES(1,2,3);
   INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
   INSERT INTO t1 VALUES(3,-2,-5);
 }
 catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
do_test func-4.2 {
 catchsql {SELECT abs() FROM t1}
} {1 {wrong number
 of arguments to function abs()}}
do_test func-4.3 {
 catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
 catchsql {SELECT abs(c) FROM t1 ORDER BY a}
```

```
} {0 {3 12345.67890 5}}
do_test func-4.4.1 {
 execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
 execsql {SELECT abs(t1) FROM tbl1}
} {this program is free software}

do_test func-4.5 {
 catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
 catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {-2.00 1.23 2.00}}
do_test func-4.7 {
 catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2 1 -2}}
do_test func-4.8 {
 catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3 -12346 -5}}
do_test func-4.9 {
 catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.000}}
do_test func-4.10 {
 catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.000y}}
do_test func-4.11
 {
 catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
 execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.00 nil 345.00 nil 67890.00}
do_test func-4.13 {
 execsql {SELECT round(t1,2) FROM tbl1}
} {0.00 0.00 0.00 0.00 0.00}

# Test the upper() and lower() functions
#
do_test func-5.1 {
 execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
 execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
 execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
```

```
do_test func-5.4 {
 catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
do_test func-5.5 {
 catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
 execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test
 func-6.2 {
 execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
 execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
 execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
 execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}


# Test the last_insert_rowid() function
#
do_test func-7.1 {
 execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
do_test func-8.1 {
 execsql {
   SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
 }
} {68236 3 22745.33 1 67890 5}
do_test func-8.2 {
 execsql {
   SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
do_test func-8.3 {
 execsql {
   CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
```

```
  SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
do_test
 func-8.4 {
 execsql {
  SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
 execsql {
  SELECT random() is not null;
 }
} {1}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
db close
set ::DB [sqlite db test.db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
 catchsql {
  SELECT testfunc(NULL,NULL);
 }
} {1 {first argument to test function may not be NULL}}
do_test func-10.2 {
 execsql {
  SELECT testfunc(
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'int', 1234
  );
 }
} {1234}
do_test func-10.3 {
 execsql {
  SELECT
 testfunc(
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'string', NULL
  );
 }
} {{}}
```

```
do_test func-10.4 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
   );
 }
} {1.234}
do_test func-10.5 {
 execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
   );
 }
} {1.234}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
 execsql {

   SELECT sqlite_version(*);
 }
} [sqlite -version]

finish_test
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/test/func.test
No license file was found, but licenses were detected in source scan.

/sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/art/SQLite.eps: binary file matches

Found in path(s):
* /bin/grep
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```
%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.hwaci.com/sw/sqlite/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a C library that implements an embeddable SQL database engine.
Programs that link with the SQLite library can have SQL database access
without running a separate RDBMS process. The distribution comes with a
standalone command-line access program (sqlite) that can be used to
administer an SQLite database and which serves as an example of how to
use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description
 -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
to develop programs that use the sqlite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}

make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}
```

```
%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/spec.template
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/*
** The "printf" code that follows dates from the 1980's.  It is in
** the public domain.  The original comments are included here for
** completeness.  They are very out-of-date but might be useful as
** an historical reference.  Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
**************************************************************************
**
** The following modules is an enhanced replacement for the "printf" subroutines
** found in the standard C library.  The following enhancements are
** supported:
**
**      +  Additional functions.  The standard set of "printf" functions
**         includes printf, fprintf, sprintf, vprintf, vfprintf, and
**         vsprintf.  This module adds the following:
**
**           *  snprintf -- Works like sprintf, but has an extra argument
**                          which is the size of the buffer written
 to.
**
**           *  mprintf --  Similar to sprintf.  Writes output to memory
**                          obtained from malloc.
**
**           *  xprintf --  Calls a function to dispose of output.
**
**           *  nprintf --  No output, but returns the number of characters
**                          that would have been output by printf.
```

```
**
**         *  A v- version (ex: vsnprintf) of every function is also
**            supplied.
**
**     +  A few extensions to the formatting notation are supported:
**
**         *  The "=" flag (similar to "-") causes the output to be
**            be centered in the appropriately sized field.
**
**         *  The %b field outputs an integer in binary notation.
**
**         *  The %c field now accepts a precision.  The character output
**            is repeated by the number of times the precision specifies.
**
**         *  The %' field works like %c, but takes as its character the
**            next character of the
 format string, instead of the next
**            argument.  For example,  printf("%.78'-")  prints 78 minus
**            signs, the same as  printf("%.78c",'-').
**
**     +  When compiled using GCC on a SPARC, this version of printf is
**        faster than the library printf for SUN OS 4.1.
**
**     +  All functions are fully reentrant.
**
*/
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/printf.c
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Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/changes.tcl
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Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/faq.tcl
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```
/* The IncrKey opcode is only applied to keys generated by
 ** MakeKey or MakeIdxKey and the results of those operands
 ** are always dynamic strings or zShort[] strings.  So we
 ** are always free to modify the string in place.
 */
```

Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/src/vdbe.c
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Found in path(s):
* /sqlite-2-8-17-orig-11-tar-gz/sqlite-2.8.17/www/index.tcl

1.193 base-passwd 3.5.29

1.193.1 Available under license :

Format-Specification: http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135
Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
Copyright: Copyright 1999-2002 Wichert Akkerman <wichert@deephackmode.org>
Copyright 2002, 2003, 2004 Colin Watson <cjwatson@debian.org>
License: GPL-2

Files: passwd.master, group.master
License: PD
X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
Bruce Perens <bruce@pixar.com>.

Files: doc/*
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1.194 breakpad 1.0

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1.197 cryptography 3.3.2

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1.199 json-net 0.17.0

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1.200 tap.py 3.0

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1.204 stunnel 5.59

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

<one line to give the program's name and a brief idea of what it does.>
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1.205 incremental 21.3.0

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1.207 llvm 12.0.0

1.207.1 Available under license :

```
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:    mov v0.d[1], v0.d[0]
; CHECK-NEXT:    ret
 %cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
 %cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
 %r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
 ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
 %L34 = load i8, i8* %0
 %Cmp56 = icmp sgt i8 undef, %L34
 br label %CF246

CF246:                                            ; preds = %CF246, %BB
```

```
 %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
 br i1 undef, label %CF246, label %CF248

CF248:                                            ; preds = %CF248, %CF246
 store i8 %Sl163, i8* %0
 br label %CF248
}
```

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; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s 2>%t | FileCheck %s
; RUN: FileCheck --check-prefix=WARN --allow-empty %s <%t

```
; If this check fails please read test/CodeGen/AArch64/README for instructions on how to resolve it.
; WARN-NOT: warning

; Testing that masked scatters operating on scalable vectors that are
; packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv4i32(
; CHECK: call void @llvm.masked.scatter.nxv4i32
define void @masked_scatter_nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, <vscale x 4 x i1>
%masks) {
 call void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 0, <vscale x 4 x
i1> %masks)
 ret void
}

; Testing that masked scatters operating on scalable vectors of FP
; data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f64(
; CHECK: call void @llvm.masked.scatter.nxv2f64
define void @masked_scatter_nxv2f64(<vscale
 x 2 x double> %data, <vscale x 2 x double*> %ptrs, <vscale x 2 x i1> %masks) {
 call void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32 0,
<vscale x 2 x i1> %masks)
 ret void
}

; Testing that masked scatters operating on scalable vectors of FP
; data that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f16(
; CHECK: call void @llvm.masked.scatter.nxv2f16
define void @masked_scatter_nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, <vscale x 2 x i1>
%masks) {
 call void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, i32 0, <vscale x 2
x i1> %masks)
 ret void
}

; Testing that masked scatters operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions.

; CHECK-LABEL: @masked_scatter_v2f32(
; CHECK-NOT: @llvm.masked.scatter.v2f32(
define void @masked_scatter_v2f32(<2 x float> %data, <2
```

```
 x float*> %ptrs, <2 x i1> %masks) {
 call void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 0, <2 x i1> %masks)
 ret void
}

; Testing that masked scatters operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_scatter_v4i32(
; CHECK-NOT: @llvm.masked.scatter.v4i32(
define void @masked_scatter_v4i32(<4 x i32> %data, <4 x i32*> %ptrs, <4 x i1> %masks) {
 call void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 0, <4 x i1> %masks)
 ret void
}

declare void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 %align,
<vscale x 4 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32
%align, <vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs,
 i32 %align, <vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 %align, <2 x i1> %masks)
declare void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 %align, <4 x i1> %masks)
; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s 2>%t | FileCheck %s
; RUN: FileCheck --check-prefix=WARN --allow-empty %s <%t

; If this check fails please read test/CodeGen/AArch64/README for instructions on how to resolve it.
; WARN-NOT: warning

; Testing that masked gathers operating on scalable vectors that are
; packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv4i32(
; CHECK: call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32
define <vscale x 4 x i32> @masked_gather_nxv4i32(<vscale x 4 x i32*> %ld, <vscale x 4 x i1> %masks, <vscale x
4 x i32> %passthru) {
 %res = call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ld, i32 0, <vscale x 4 x i1>
%masks, <vscale x 4 x i32> %passthru)
 ret <vscale x 4 x i32> %res
}

; Testing that masked gathers operating on scalable vectors of FP data
; that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f64(
; CHECK: call <vscale
```

```
 x 2 x double> @llvm.masked.gather.nxv2f64
define <vscale x 2 x double> @masked_gather_nxv2f64(<vscale x 2 x double*> %ld, <vscale x 2 x i1> %masks,
<vscale x 2 x double> %passthru) {
 %res = call <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ld, i32 0, <vscale x 2 x
i1> %masks, <vscale x 2 x double> %passthru)
 ret <vscale x 2 x double> %res
}

; Testing that masked gathers operating on scalable vectors of FP data
; that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f16(
; CHECK: call <vscale x 2 x half> @llvm.masked.gather.nxv2f16
define <vscale x 2 x half> @masked_gather_nxv2f16(<vscale x 2 x half*> %ld, <vscale x 2 x i1> %masks, <vscale
x 2 x half> %passthru) {
 %res = call <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ld, i32 0, <vscale x 2 x i1>
%masks, <vscale x 2 x half> %passthru)
 ret <vscale x 2 x half> %res
}

; Testing that masked gathers operating on 64-bit fixed vectors are
;
 scalarized because NEON doesn't have support for masked gather
; instructions.

; CHECK-LABEL: @masked_gather_v2f32(
; CHECK-NOT: @llvm.masked.gather.v2f32(
define <2 x float> @masked_gather_v2f32(<2 x float*> %ld, <2 x i1> %masks, <2 x float> %passthru) {
 %res = call <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ld, i32 0, <2 x i1> %masks, <2 x float>
%passthru)
 ret <2 x float> %res
}

; Testing that masked gathers operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_gather_v4i32(
; CHECK-NOT: @llvm.masked.gather.v4i32(
define <4 x i32> @masked_gather_v4i32(<4 x i32*> %ld, <4 x i1> %masks, <4 x i32> %passthru) {
 %res = call <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ld, i32 0, <4 x i1> %masks, <4 x i32> %passthru)
 ret <4 x i32> %res
}

declare <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ptrs, i32 %align,
 <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru)
declare <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ptrs, i32 %align, <vscale x
2 x i1> %masks, <vscale x 2 x double> %passthru)
```

declare <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ptrs, i32 %align, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru)
declare <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ptrs, i32 %align, <2 x i1> %masks, <2 x float> %passthru)
declare <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ptrs, i32 %align, <4 x i1> %masks, <4 x i32> %passthru)
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=-=-=-

```
!DIExpression()), [[DBG17]]
; CHECK-NEXT:    [[B:%.*]] = alloca i32, align 4, [[DBG18:!dbg !.*]]
; CHECK-NEXT:    call void @llvm.dbg.value(metadata i32* [[B]], [[META11:metadata !.*]], metadata
!DIExpression()), [[DBG18]]
; CHECK-NEXT:    [[C:%.*]] = alloca i32, align 4, [[DBG19:!dbg !.*]]
; CHECK-NEXT:    call void @llvm.dbg.value(metadata i32* [[C]], [[META12:metadata !.*]], metadata
!DIExpression()), [[DBG19]]
; CHECK-NEXT:    call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]]), [[DBG20:!dbg
 !.*]]
; CHECK-NEXT:    ret void, [[DBG21:!dbg !.*]]
;
entry:
 %a = alloca i32, align 4, !dbg !17
 call void @llvm.dbg.value(metadata i32* %a, metadata !9, metadata !DIExpression()), !dbg !17
 %b = alloca i32, align 4, !dbg !18
 call void @llvm.dbg.value(metadata i32* %b, metadata !11, metadata !DIExpression()), !dbg !18
 %c = alloca i32, align 4, !dbg !19
 call void @llvm.dbg.value(metadata i32* %c, metadata !12, metadata !DIExpression()), !dbg !19
 store i32 2, i32* %a, align 4, !dbg !20
 store i32 3, i32* %b, align 4, !dbg !21
 store i32 4, i32* %c, align 4, !dbg !22
 %al = load i32, i32* %a, align 4, !dbg !23
 call void @llvm.dbg.value(metadata i32 %al, metadata !13, metadata !DIExpression()), !dbg !23
 %bl = load i32, i32* %b, align 4, !dbg !24
 call void @llvm.dbg.value(metadata i32 %bl, metadata !15, metadata !DIExpression()), !dbg !24
 %cl = load i32, i32* %c, align 4, !dbg !25
 call void @llvm.dbg.value(metadata i32 %cl, metadata !16, metadata !DIExpression()),
 !dbg !25
 ret void, !dbg !26
}

define void @function2() !dbg !27 {
; CHECK-LABEL: @function2(
; CHECK-NEXT:  entry:
; CHECK-NEXT:    [[A:%.*]] = alloca i32, align 4, [[DBG30:!dbg !.*]]
; CHECK-NEXT:    call void @llvm.dbg.value(metadata i32* [[A]], [[META24:metadata !.*]], metadata
!DIExpression()), [[DBG30]]
; CHECK-NEXT:    [[B:%.*]] = alloca i32, align 4, [[DBG31:!dbg !.*]]
; CHECK-NEXT:    call void @llvm.dbg.value(metadata i32* [[B]], [[META25:metadata !.*]], metadata
!DIExpression()), [[DBG31]]
; CHECK-NEXT:    [[C:%.*]] = alloca i32, align 4, [[DBG32:!dbg !.*]]
; CHECK-NEXT:    call void @llvm.dbg.value(metadata i32* [[C]], [[META26:metadata !.*]], metadata
!DIExpression()), [[DBG32]]
; CHECK-NEXT:    call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]]), [[DBG33:!dbg !.*]]
; CHECK-NEXT:    ret void, [[DBG34:!dbg !.*]]
;
entry:
 %a = alloca i32, align 4, !dbg !35
```

```
 call void @llvm.dbg.value(metadata i32* %a, metadata !29, metadata !DIExpression()), !dbg !35
  %b = alloca i32, align 4, !dbg !36
 call void @llvm.dbg.value(metadata i32* %b, metadata !30, metadata !DIExpression()), !dbg !36
 %c = alloca i32, align 4, !dbg !37
 call void @llvm.dbg.value(metadata i32* %c, metadata !31, metadata !DIExpression()), !dbg !37
 store i32 2, i32* %a, align 4, !dbg !38
 store i32 3, i32* %b, align 4, !dbg !39
 store i32 4, i32* %c, align 4, !dbg !40
 %al = load i32, i32* %a, align 4, !dbg !41
 call void @llvm.dbg.value(metadata i32 %al, metadata !32, metadata !DIExpression()), !dbg !41
 %bl = load i32, i32* %b, align 4, !dbg !42
 call void @llvm.dbg.value(metadata i32 %bl, metadata !33, metadata !DIExpression()), !dbg !42
 %cl = load i32, i32* %c, align 4, !dbg !43
 call void @llvm.dbg.value(metadata i32 %cl, metadata !34, metadata !DIExpression()), !dbg !43
 ret void, !dbg !44
}

; Function Attrs: nounwind readnone speculatable willreturn
declare void @llvm.dbg.value(metadata, metadata, metadata) #0

attributes #0 = { nounwind readnone speculatable
 willreturn }

!llvm.dbg.cu = !{!0}
!llvm.debugify = !{!3, !4}
!llvm.module.flags = !{!5}

!0 = distinct !DICompileUnit(language: DW_LANG_C, file: !1, producer: "debugify", isOptimized: true,
runtimeVersion: 0, emissionKind: FullDebug, enums: !2)
!1 = !DIFile(filename: "legal-debug.ll", directory: "/")
!2 = !{}
!3 = !{i32 20}
!4 = !{i32 12}
!5 = !{i32 2, !"Debug Info Version", i32 3}
!6 = distinct !DISubprogram(name: "function1", linkageName: "function1", scope: null, file: !1, line: 1, type: !7,
scopeLine: 1, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !8)
!7 = !DISubroutineType(types: !2)
!8 = !{!9, !11, !12, !13, !15, !16}
!9 = !DILocalVariable(name: "1", scope: !6, file: !1, line: 1, type: !10)
!10 = !DIBasicType(name: "ty64", size: 64, encoding: DW_ATE_unsigned)
!11 = !DILocalVariable(name: "2", scope: !6, file: !1, line: 2, type: !10)
!12 = !DILocalVariable(name: "3", scope: !6, file: !1, line: 3, type: !10)
!13 = !DILocalVariable(name: "4",
 scope: !6, file: !1, line: 7, type: !14)
!14 = !DIBasicType(name: "ty32", size: 32, encoding: DW_ATE_unsigned)
!15 = !DILocalVariable(name: "5", scope: !6, file: !1, line: 8, type: !14)
!16 = !DILocalVariable(name: "6", scope: !6, file: !1, line: 9, type: !14)
!17 = !DILocation(line: 1, column: 1, scope: !6)
```

```
!18 = !DILocation(line: 2, column: 1, scope: !6)
!19 = !DILocation(line: 3, column: 1, scope: !6)
!20 = !DILocation(line: 4, column: 1, scope: !6)
!21 = !DILocation(line: 5, column: 1, scope: !6)
!22 = !DILocation(line: 6, column: 1, scope: !6)
!23 = !DILocation(line: 7, column: 1, scope: !6)
!24 = !DILocation(line: 8, column: 1, scope: !6)
!25 = !DILocation(line: 9, column: 1, scope: !6)
!26 = !DILocation(line: 10, column: 1, scope: !6)
!27 = distinct !DISubprogram(name: "function2", linkageName: "function2", scope: null, file: !1, line: 11, type: !7,
scopeLine: 11, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !28)
!28 = !{!29, !30, !31, !32, !33, !34}
!29
 = !DILocalVariable(name: "7", scope: !27, file: !1, line: 11, type: !10)
!30 = !DILocalVariable(name: "8", scope: !27, file: !1, line: 12, type: !10)
!31 = !DILocalVariable(name: "9", scope: !27, file: !1, line: 13, type: !10)
!32 = !DILocalVariable(name: "10", scope: !27, file: !1, line: 17, type: !14)
!33 = !DILocalVariable(name: "11", scope: !27, file: !1, line: 18, type: !14)
!34 = !DILocalVariable(name: "12", scope: !27, file: !1, line: 19, type: !14)
!35 = !DILocation(line: 11, column: 1, scope: !27)
!36 = !DILocation(line: 12, column: 1, scope: !27)
!37 = !DILocation(line: 13, column: 1, scope: !27)
!38 = !DILocation(line: 14, column: 1, scope: !27)
!39 = !DILocation(line: 15, column: 1, scope: !27)
!40 = !DILocation(line: 16, column: 1, scope: !27)
!41 = !DILocation(line: 17, column: 1, scope: !27)
!42 = !DILocation(line: 18, column: 1, scope: !27)
!43 = !DILocation(line: 19, column: 1, scope: !27)
!44 = !DILocation(line: 20, column: 1, scope: !27)
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK:       # %bb.0:
; CHECK-NEXT:    pushq %rbx
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    subq $32, %rsp
; CHECK-NEXT:    .cfi_def_cfa_offset 48
; CHECK-NEXT:    .cfi_offset %rbx, -16
; CHECK-NEXT:    movaps %xmm1, {{[-0-9]+}}(%r{{[sb]}}p) # 16-byte Spill
```

```
; CHECK-NEXT:    movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:    callq __gttf2
; CHECK-NEXT:    movl %eax, %ebx
; CHECK-NEXT:    movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT:    movaps {{[-0-9]+}}(%r{{[sb]}}p),
 %xmm1 # 16-byte Reload
; CHECK-NEXT:    callq __subtf3
; CHECK-NEXT:    testl %ebx, %ebx
; CHECK-NEXT:    jg .LBB0_2
; CHECK-NEXT:  # %bb.1:
; CHECK-NEXT:    xorps %xmm0, %xmm0
; CHECK-NEXT:  .LBB0_2:
; CHECK-NEXT:    addq $32, %rsp
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    popq %rbx
; CHECK-NEXT:    .cfi_def_cfa_offset 8
; CHECK-NEXT:    retq
 %cmp = fcmp ogt fp128 %a, %b
 %sub = fsub fp128 %a, %b
 %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
 ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK:       # %bb.0:
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:    retq
 %res = call fp128 @llvm.fabs.f128(fp128 %a)
 ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm1
; CHECK-NEXT:    andps {{.*}}(%rip), %xmm0
; CHECK-NEXT:    orps %xmm1, %xmm0
; CHECK-NEXT:    retq
 %res = call
 fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
 ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK:       # %bb.0:
; CHECK-NEXT:    pushq %rax
```

```
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    movaps %xmm0, %xmm1
; CHECK-NEXT:    callq __multf3
; CHECK-NEXT:    xorps {{.*}}(%rip), %xmm0
; CHECK-NEXT:    popq %rax
; CHECK-NEXT:    .cfi_def_cfa_offset 8
; CHECK-NEXT:    retq
 %mul = fmul fp128 %a, %a
 %res = fsub fp128 0xL00000000000000008000000000000000, %mul
 ret fp128 %res
}
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
 ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
 ret void
}

define internal void @innerNoAttribute() {
 ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
 call void @innerLarge()
 ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
 call void @innerLarge()
 ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
 call void @innerSmall()
 ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
 call void @innerNoAttribute()
 ret void
```

```
}

; CHECK: define void @outerNoAttribute() {
; CHECK:
 define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
```

---

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```
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
 br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:                                 ; preds = %entry
```

```
 br label %while.body

while.body:                                       ; preds = %exit.2, %while.body.lr.ph
 %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
 switch i32 undef, label %exit [
   i32 1, label %sw.bb.i
   i32 2, label %sw.bb3.i
 ]

sw.bb.i:                                          ; preds = %while.body
 unreachable

sw.bb3.i:                                         ; preds = %while.body
 unreachable

exit:
                                                  ; preds = %while.body
 switch i32 undef, label %exit.2 [
   i32 1, label %sw.bb.i17
   i32 2, label %sw.bb3.i20
 ]

sw.bb.i17:                                        ; preds = %.exit
 %0 = bitcast %struct.0* %lsr.iv to i32*
 %1 = load i32, i32* %0, align 4
 unreachable

sw.bb3.i20:                                       ; preds = %exit
 %2 = bitcast %struct.0* %lsr.iv to i8**
 %3 = load i8*, i8** %2, align 4
 unreachable

exit.2:                                           ; preds = %exit
 %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
 br label %while.body

while.end:                                        ; preds = %entry
 ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
```

==========

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THE SOFTWARE.
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32>
%in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,

```
double 64.0>
 ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
 %flt = sitofp <4 x i64> %in to <4 x double>
 %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
 ret <4 x double> %res
}
ad9a50b5c0d1b67d91a75fab34384075
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8*
 %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
```

```
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
entry:
 %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
 %1 = load volatile
 i8, i8* inttoptr (i32 805874692 to i8*)
 %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
 %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
 %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
 store i8 %4, i8* inttoptr(i32 805873688 to i8*)
 store i8 %3, i8* inttoptr(i32 805873719 to i8*)
 store i8 %2, i8* inttoptr(i32 805873720 to i8*)
 store i8 %1, i8* inttoptr(i32 805873727 to i8*)
 store i8* inttoptr(i32 805874800 to i8*), i8** @goo
 ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2
```

```
define void @foo_i16() {
entry:
 %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
 %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
 %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
 %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
 %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
 %5 = load volatile i16, i16* inttoptr (i32 805874774
 to i16*), align 2
 ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT:  %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT:  %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT:  %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT:  %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT:  %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
 12
; CHECK-NEXT:  %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT:  %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
entry:
 %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
 %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
 %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
 %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
 %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
 %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
 ret void
}
```

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attrubtes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0
 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]

```
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64
 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
;
 CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
```

```
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca
 <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
```

```
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret
 void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8*
 align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
```

```
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8
 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0,
 i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}
```

```
; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
;
 CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8
 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
```

```
; CHECK-NEXT:  bb:
; CHECK-NEXT:
    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store
 <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
```

```
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64>
 %tmp, <8 x i64>* %arg
 ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>,
 align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32*
%Y) #2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:    [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:    ret i32 [[C]]
;
 %A = load i32, i32* %X
 %B = load i32, i32* %Y
 %C = add i32 %A, %B
 ret i32 %C
```

```
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
;
 CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT:    [[A:%.*]] = alloca i32
; CHECK-NEXT:    store i32 1, i32* [[A]]
; CHECK-NEXT:    [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:    [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:    [[C:%.*]] = call i32
@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:    ret i32 [[C]]
;
 %A = alloca i32
 store i32 1, i32* %A
 %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
 ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32*
%Y) #2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:    [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:    ret
 i32 [[C]]
;
 %A = load i32, i32* %X
 %B = load i32, i32* %Y
 %C = add i32 %A, %B
 ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT:    [[A:%.*]] = alloca i32
; CHECK-NEXT:    store i32 1, i32* [[A]]
; CHECK-NEXT:    [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:    [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:    [[C:%.*]] = call i32
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:    ret i32 [[C]]
;
 %A = alloca i32
```

```
 store i32 1, i32* %A
 %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %A, i32* %B)
 ret i32 %C
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind
 uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
```

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s
--check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi |
FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for
vpmaddwd+vpaddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-
prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI
;
RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI

```
; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define dso_local void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:
 vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <16 x i32>, <16 x i32>* %a
 %e = load <16 x i32>, <16 x i32>* %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, <16 x i32>* %c
 ret void
}

define dso_local void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpaddd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <16 x i32>, <16 x i32>* %a
 %e = load <16 x i32>, <16 x i32>* %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, <16 x i32>* %c
 ret void
}

define dso_local void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:    vpavgb (%rdi), %ymm0,
 %ymm0
; CHECK-NEXT:    vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:    vmovdqu %ymm1, (%rax)
```

```
; CHECK-NEXT:    vmovdqu %ymm0, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %1 = load <64 x i8>, <64 x i8>* %a
 %2 = load <64 x i8>, <64 x i8>* %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
 %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1,
 i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %8 = trunc <64 x i32> %7 to <64 x i8>
 store <64 x i8> %8, <64 x i8>* undef, align 4
 ret void
}


define dso_local void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %1 = load <64 x i8>, <64 x i8>* %a
 %2 = load <64 x i8>, <64 x i8>* %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
 %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1>
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %8 = trunc <64 x i32> %7 to <64 x i8>
 store <64 x i8> %8, <64 x i8>* undef, align 4
```

```
  ret void
}

define dso_local void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-
legal-vector-width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9,
 i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define dso_local void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-
legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16
 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29,
i32 31>
```

```
 %ret = add <16 x i32> %odd, %even
 store <16 x i32> %ret, <16 x i32>* %CPtr
 ret void
}

define dso_local void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define dso_local
 void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define dso_local i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
```

```
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    vpxor %xmm2,
 %xmm2, %xmm2
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1
 = xmm0[1,1,1,1]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 %3 = zext i32 %2 to i64
 br label %vector.body

vector.body:
 %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
 %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
 %4 = getelementptr inbounds i8, i8* %0, i64 %index
 %5 = bitcast i8* %4 to <32 x i8>*
 %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
 %6 = sext <32 x i8> %wide.load to <32 x i32>
 %7 = getelementptr inbounds i8, i8* %1, i64 %index
 %8 = bitcast i8* %7 to <32 x i8>*
```

```
 %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
 %9 = sext <32 x i8> %wide.load14 to <32 x i32>
 %10 = mul nsw <32 x i32> %9, %6
 %11 = add nsw <32 x i32> %10, %vec.phi
 %index.next = add i64 %index, 32
 %12 = icmp eq i64 %index.next, %3
 br i1 %12, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf1 = shufflevector <32 x i32> %11,
 <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26,
i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
 %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
 %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef,
 i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
 %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
 %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
 %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
 %13 = extractelement <32 x i32> %bin.rdx20, i32 0
 ret i32 %13
}

define dso_local i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-
vector-width"="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
```

```
; CHECK-NEXT:  .LBB9_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
;
 CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB9_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 %3 = zext i32 %2 to i64
 br label %vector.body

vector.body:
 %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
 %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
 %4 = getelementptr inbounds i8, i8* %0, i64 %index
 %5 = bitcast i8* %4 to <32 x i8>*
 %wide.load = load <32 x i8>, <32 x i8>* %5, align
 1
 %6 = sext <32 x i8> %wide.load to <32 x i32>
 %7 = getelementptr inbounds i8, i8* %1, i64 %index
 %8 = bitcast i8* %7 to <32 x i8>*
 %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
 %9 = sext <32 x i8> %wide.load14 to <32 x i32>
 %10 = mul nsw <32 x i32> %9, %6
 %11 = add nsw <32 x i32> %10, %vec.phi
 %index.next = add i64 %index, 32
 %12 = icmp eq i64 %index.next, %3
 br i1 %12, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
```

```
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
 %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
 %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12,
 i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
 %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
 %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
 i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
 %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
 %13 = extractelement <32 x i32> %bin.rdx20, i32 0
 ret i32 %13
}

@a = dso_local global [1024 x i8] zeroinitializer, align 16
@b = dso_local global [1024 x i8] zeroinitializer, align 16

define dso_local i32 @sad_16i8_256()
 "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB10_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
```

```
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:
   retq
entry:
 br label %vector.body

vector.body:
 %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
 %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
 %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
 %1 = bitcast i8* %0 to <16 x i8>*
 %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
 %2 = zext <16 x i8> %wide.load to <16 x i32>
 %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
 %4 = bitcast i8* %3 to <16 x i8>*
 %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
 %5 = zext <16 x i8> %wide.load1 to <16 x i32>
 %6 = sub nsw <16 x i32> %2, %5
 %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
 %8 = sub nsw <16 x i32> zeroinitializer, %6
 %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
 %10 = add nsw <16 x i32> %9, %vec.phi
 %index.next = add i64 %index,
 4
 %11 = icmp eq i64 %index.next, 1024
 br i1 %11, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <16 x i32> %10, %rdx.shuf
 %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
 %rdx.shuf4 = shufflevector
```

```
 <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
 %12 = extractelement <16 x i32> %bin.rdx4, i32 0
 ret i32 %12
}

define dso_local i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB11_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB11_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:
   vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 br label %vector.body

vector.body:
 %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
 %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
 %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
 %1 = bitcast i8* %0 to <16 x i8>*
 %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
 %2 = zext <16 x i8> %wide.load to <16 x i32>
 %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
 %4 = bitcast i8* %3 to <16 x i8>*
 %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
 %5 = zext <16 x i8> %wide.load1
```

```
 to <16 x i32>
 %6 = sub nsw <16 x i32> %2, %5
 %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
 %8 = sub nsw <16 x i32> zeroinitializer, %6
 %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
 %10 = add nsw <16 x i32> %9, %vec.phi
 %index.next = add i64 %index, 4
 %11 = icmp eq i64 %index.next, 1024
 br i1 %11, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <16 x i32> %10, %rdx.shuf
 %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
 %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
 %12 = extractelement <16 x i32> %bin.rdx4, i32 0
 ret i32 %12
}

define dso_local void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
;
 CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm1
; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
```

```
 ret void
}

define dso_local void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define dso_local void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256"
 {
; CHECK-LABEL: sbto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define dso_local void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:
```

```
   # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define dso_local void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm1
; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:    vmovaps %ymm1,
 (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define dso_local void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
```

```
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define dso_local void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m
 %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define dso_local void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:
    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
```

```
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k0
; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k1
; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
; CHECK-NEXT:    vmovdqu16
 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:    vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:    vpmovd2m %zmm1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:
   vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k0
```

```
; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k1
; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptosi <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:    vpmovd2m %zmm1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptosi <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define
 dso_local void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT:    vmovdqa {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-AVX512-NEXT:    vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:    vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
;
 CHECK-AVX512-NEXT:    vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:    vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:    vpand %ymm5, %ymm1, %ymm1
```

```
; CHECK-AVX512-NEXT:    vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm3 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:    vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:    vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT:    vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:    vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:    vpmullw
 %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:    vzeroupper
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} ymm3 =
ymm3[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
;
 CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} ymm1 =
ymm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:    vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm3 =
[0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:    vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymm2[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} ymm2 =
ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} ymm0 =
```

```
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:
   vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT:    vpermt2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
 %d = load <64 x i8>, <64 x i8>* %a
 %e = load <64 x i8>, <64 x i8>* %b
 %f = mul <64 x i8> %d, %e
 store <64 x i8> %f, <64 x i8>* %c
 ret void
}

define dso_local void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT:    vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
;
 CHECK-AVX512-NEXT:    vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:    vmovdqa64 {{.*#+}} zmm3 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,2
55,255,255,255,255,255,255]
; CHECK-AVX512-NEXT:    vpandq %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT:    vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT:    vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT:    vpmullw %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT:    vpandq %zmm3, %zmm0,
 %zmm0
; CHECK-AVX512-NEXT:    vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT:    vzeroupper
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:       # %bb.0:
```

```
; CHECK-VBMI-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:    vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:    vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
;
 CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:    vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:    vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,
46,96,98,100,102,104,106,108,110,48,50,52,54,56,58,60,62,112,114,116,118,120,122,124,126]
; CHECK-VBMI-NEXT:    vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:    vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
 %d = load <64 x i8>, <64 x i8>* %a
 %e = load <64 x i8>, <64 x i8>* %b
 %f = mul <64 x i8> %d, %e
 store <64 x i8> %f, <64 x i8>* %c
 ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4
 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:    vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:    retq
 %mask = icmp eq <4 x i32> %trigger, zeroinitializer
 %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32>
%dst)
 ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
```

```
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:    vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:    vpmovqd %ymm0, %xmm0
; CHECK-NEXT:    vpmovqd %ymm1, %xmm1
; CHECK-NEXT:    vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:
   vpmovqd %ymm2, %xmm1
; CHECK-NEXT:    vpmovqd %ymm3, %xmm2
; CHECK-NEXT:    vinserti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:    retq
 %a = load <16 x i64>, <16 x i64>* %x
 %b = trunc <16 x i64> %a to <16 x i32>
 ret <16 x i32> %b
}

define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:    vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:    vpmovqb %ymm3, %xmm3
; CHECK-NEXT:    vpmovqb %ymm2, %xmm2
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT:    vpmovqb %ymm1, %xmm1
; CHECK-NEXT:    vpmovqb %ymm0, %xmm0
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm2[0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i64>, <16
 x i64>* %x
 %b = trunc <16 x i64> %a to <16 x i8>
 ret <16 x i8> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovdb %ymm1, %xmm1
; CHECK-NEXT:    vpmovdb %ymm0, %xmm0
; CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
```

```
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %x
 %b = trunc <16 x i32> %a to <16 x i8>
 ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovqb %ymm1, %xmm1
; CHECK-NEXT:    vpmovqb %ymm0, %xmm0
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT:    vzeroupper
;
 CHECK-NEXT:    retq
 %a = load <8 x i64>, <8 x i64>* %x
 %b = trunc <8 x i64> %a to <8 x i8>
 ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovqw %ymm1, %xmm1
; CHECK-NEXT:    vpmovqw %ymm0, %xmm0
; CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <8 x i64>, <8 x i64>* %x
 %b = trunc <8 x i64> %a to <8 x i16>
 ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsrlq $48, 32(%rdi), %ymm0
; CHECK-NEXT:    vpsrlq $48, (%rdi), %ymm1
; CHECK-NEXT:    vpackusdw %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:
   retq
 %a = load <8 x i64>, <8 x i64>* %x
```

```
 %b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
 %c = trunc <8 x i64> %b to <8 x i32>
 ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:    vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %x
 %b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32
16, i32 16, i32 16, i32 16, i32 16>
 %c = trunc <16 x i32> %b to <16 x i16>
 ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512:
   # %bb.0:
; CHECK-AVX512-NEXT:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
 %a = load <32 x i16>, <32 x i16>* %x
 %b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
 %c = trunc <32 x i16> %b to <32 x i8>
 ret <32 x i8> %c
}

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>*
 %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsraq $48, 32(%rdi), %ymm0
```

```
; CHECK-NEXT:    vpsraq $48, (%rdi), %ymm1
; CHECK-NEXT:    vpmovqd %ymm1, %xmm1
; CHECK-NEXT:    vpmovqd %ymm0, %xmm0
; CHECK-NEXT:    vinserti128 $1, %xmm0, %ymm1, %ymm0
; CHECK-NEXT:    retq
 %a = load <8 x i64>, <8 x i64>* %x
 %b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
 %c = trunc <8 x i64> %b to <8 x i32>
 ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:    vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %x
 %b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16,
 i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
 %c = trunc <16 x i32> %b to <16 x i16>
 ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
 %a = load <32 x i16>, <32 x i16>* %x
 %b = ashr <32 x i16> %a, <i16 8, i16
 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
 %c = trunc <32 x i16> %b to <32 x i8>
 ret <32 x i8> %c
}
```

```
define dso_local void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT:    vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm2 = xmm2[0],zero,zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm3 = xmm3[0],zero,zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm1 = xmm1[0],zero,zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT:    vpmovzxbq {{.*#+}} ymm0 = xmm0[0],zero,zero,zero,zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zero,zero,zero,zero,xmm0[3],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:    vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = zext <16 x i8> %x to <16 x i64>
 store <16 x i64> %a, <16 x i64>* %y
 ret void
}

define dso_local void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: sext_v16i8_v16i64:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovsxbw %xmm0, %ymm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT:    vpmovsxwq %xmm2, %ymm2
; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT:    vpmovsxwq %xmm3, %ymm3
; CHECK-NEXT:    vpmovsxwq %xmm1, %ymm1
; CHECK-NEXT:    vpmovsxbq %xmm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
```

```
; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:    vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = sext <16 x i8> %x to <16 x i64>
 store <16 x i64> %a, <16 x i64>* %y
 ret void
}

define dso_local void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8
x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i16_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT:    kshiftrb $4, %k1, %k2
;
 CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, <8 x i64>* %p
 %y = load <8 x i64>, <8 x i64>* %q
 %a = icmp eq <8 x i16> %s, %t
 %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
 store <8 x i64> %b, <8 x i64>* %r
 ret void
}

define dso_local void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8
x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT:    kshiftrb $4, %k1, %k2
; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:
   vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, <8 x i64>* %p
```

```
 %y = load <8 x i64>, <8 x i64>* %q
 %a = icmp eq <8 x i32> %s, %t
 %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
 store <8 x i64> %b, <8 x i64>* %r
 ret void
}

define dso_local void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q,
<16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT:    kshiftrw $8, %k1, %k2
; CHECK-NEXT:    vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <16 x i32>, <16 x i32>* %p
 %y = load <16 x i32>, <16 x i32>* %q
 %a = icmp eq <16 x i8> %s, %t
 %b = select <16 x i1>
 %a, <16 x i32> %x, <16 x i32> %y
 store <16 x i32> %b, <16 x i32>* %r
 ret void
}

define dso_local void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>*
%q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT:    kshiftrw $8, %k1, %k2
; CHECK-NEXT:    vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <16 x i32>, <16 x i32>* %p
 %y = load <16 x i32>, <16 x i32>* %q
 %a = icmp eq <16 x i16> %s, %t
 %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
```

```
 store <16 x i32> %b, <16 x i32>* %r
 ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256"
 {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:    vpmovuswb %ymm0, %xmm0
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %p
 %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %d = icmp sgt <16 x i32> %c, zeroinitializer
 %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
 %f = trunc <16 x i32> %e to <16 x i8>
 ret <16 x i8> %f
}

define dso_local void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-
width"="256"
 {
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:    vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %p
 %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %d = icmp sgt <16 x i32> %c, zeroinitializer
 %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
 %f = trunc <16 x i32> %e to <16 x i8>
 store <16 x i8> %f, <16 x i8>* %q
 ret void
}
```

```
define <64 x i1> @v64i1_argument_return(<64 x
 i1> %x) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_argument_return:
; CHECK:       # %bb.0:
; CHECK-NEXT:    retq
 ret <64 x i1> %x
}

define dso_local void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT:    vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT:    kshiftrd $1, %k0, %k1
; CHECK-NEXT:    movq $-3, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftlq $63, %k0, %k2
; CHECK-NEXT:    kshiftrq $62, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-5, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $3, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $61, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-9, %rax
; CHECK-NEXT:    kmovq
 %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $2, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $60, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-17, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $5, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $59, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $4, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
```

```
; CHECK-NEXT:    kshiftrq $58, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $7, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $57, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq
 $-129, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $6, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $56, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $9, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $55, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $8, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $54, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $11, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:
   kshiftrq $53, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $10, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $52, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:    kmovq %rax, %k2
```

```
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $13, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $51, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $12, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $50, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2,
 %k1, %k1
; CHECK-NEXT:    kshiftrd $15, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $49, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $14, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $48, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65537, %rax # imm = 0xFFFEFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $17, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $47, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-131073, %rax # imm = 0xFFFDFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $16, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $46, %k2, %k2
; CHECK-NEXT:    korq %k2,
 %k1, %k1
; CHECK-NEXT:    movq $-262145, %rax # imm = 0xFFFBFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $19, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $45, %k2, %k2
```

```
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $18, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $44, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1048577, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $21, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $43, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2097153, %rax # imm = 0xFFDFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:
   kshiftrd $20, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $42, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4194305, %rax # imm = 0xFFBFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $23, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $41, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-8388609, %rax # imm = 0xFF7FFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $22, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $40, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16777217, %rax # imm = 0xFEFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $25, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $39, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:
   movq $-33554433, %rax # imm = 0xFDFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
```

```
; CHECK-NEXT:    kshiftrd $24, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $38, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-67108865, %rax # imm = 0xFBFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $27, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $37, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-134217729, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $26, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $36, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd
 $29, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $35, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $28, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $34, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $31, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $33, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k2
; CHECK-NEXT:    vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT:    kshiftrd $30, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k0, %k0
; CHECK-NEXT:    kshiftrq $32, %k0,
```

```
%k0
; CHECK-NEXT:    korq %k0, %k2, %k0
; CHECK-NEXT:    movabsq $-4294967297, %rax # imm = 0xFFFFFFFEFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $1, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $31, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-8589934593, %rax # imm = 0xFFFFFFFDFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k1, %k2
; CHECK-NEXT:    kshiftrq $30, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-17179869185, %rax # imm = 0xFFFFFFFBFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $3, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $29, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-34359738369, %rax # imm = 0xFFFFFFF7FFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
;
 CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $2, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $28, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-68719476737, %rax # imm = 0xFFFFFFEFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $5, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $27, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-137438953473, %rax # imm = 0xFFFFFFDFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $4, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $26, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-274877906945, %rax # imm = 0xFFFFFFBFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $7, %k1, %k2
```

```
; CHECK-NEXT:    kshiftlq $63, %k2,
 %k2
; CHECK-NEXT:    kshiftrq $25, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-549755813889, %rax # imm = 0xFFFFFF7FFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $6, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $24, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1099511627777, %rax # imm = 0xFFFFFEFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $9, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $23, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2199023255553, %rax # imm = 0xFFFFFDFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $8, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $22, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq
 $-4398046511105, %rax # imm = 0xFFFFFBFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $11, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $21, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-8796093022209, %rax # imm = 0xFFFFF7FFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $10, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $20, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $13, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $19, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFF
```

```
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:
   kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $12, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $18, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $15, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $17, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $14, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $16, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-281474976710657, %rax # imm = 0xFFFEFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $17, %k1, %k2
; CHECK-NEXT:    kshiftlq $63,
 %k2, %k2
; CHECK-NEXT:    kshiftrq $15, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-562949953421313, %rax # imm = 0xFFFDFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $16, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $14, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1125899906842625, %rax # imm = 0xFFFBFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $19, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $13, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $18, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
```

```
; CHECK-NEXT:    kshiftrq $12, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:
   movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $21, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $11, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $20, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $10, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $23, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $9, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFF
; CHECK-NEXT:    kmovq
 %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $22, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $8, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $25, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $7, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $24, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $6, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
```

```
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $27, %k1, %k2
;
 CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $5, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $26, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $4, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $29, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $3, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $28, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $2, %k2, %k2
; CHECK-NEXT:
   korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $31, %k1, %k2
; CHECK-NEXT:    kshiftlq $62, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $30, %k1, %k1
; CHECK-NEXT:    kshiftlq $1, %k0, %k0
; CHECK-NEXT:    kshiftrq $1, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k1, %k1
; CHECK-NEXT:    korq %k1, %k0, %k1
; CHECK-NEXT:    vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT:    kshiftrq $32, %k1, %k1
; CHECK-NEXT:    vmovdqu8 %ymm0, 32(%rsi) {%k1}
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 %a = load <64 x i8>, <64 x i8>* %x
 %b = icmp eq <64 x i8> %a, zeroinitializer
 %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32
```

```
6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32
 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32
36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53,
i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
 call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
 ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

@mem64_dst = dso_local global i64 0, align 8
@mem64_src = dso_local global i64 0, align 8
define dso_local i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:       # %bb.0:
; CHECK-NEXT:    kmovq {{.*}}(%rip), %k0
; CHECK-NEXT:    #APP
; CHECK-NEXT:    #NO_APP
; CHECK-NEXT:    kmovq %k0, {{.*}}(%rip)
; CHECK-NEXT:    movl -{{[0-9]+}}(%rsp), %eax
; CHECK-NEXT:    retq
 %1 = alloca i32, align 4
 %2 = load i64, i64* @mem64_src,
 align 8
 %3 = call i64 asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
 store i64 %3, i64* @mem64_dst, align 8
 %4 = load i32, i32* %1, align 4
 ret i32 %4
}

define dso_local void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-
vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_sext:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:    vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:    vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, <8 x i64>* %xptr
 %y = load <8 x i64>, <8 x i64>* %yptr
 %cmp = icmp slt <8 x i64> %x, %y
 %ext = sext <8 x i1> %cmp to <8 x i64>
 store <8 x i64> %ext, <8 x i64>* %zptr
 ret void
}
```

```
define dso_local void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
;
 CHECK-LABEL: cmp_v8i64_zext:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:    vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:    vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT:    vpsrlq $63, %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, <8 x i64>* %xptr
 %y = load <8 x i64>, <8 x i64>* %yptr
 %cmp = icmp slt <8 x i64> %x, %y
 %ext = zext <8 x i1> %cmp to <8 x i64>
 store <8 x i64> %ext, <8 x i64>* %zptr
 ret void
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT:    vpsubb %xmm1, %xmm2, %xmm2
; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 = xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zero,xmm1[8],zero,xmm1[9],zero,xmm1[10],zero,xmm1[11],zero,xmm1[12],zero,xmm1[13],zero,xmm1[14],zero,xmm1[15],zero
;
 CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm0 = xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zero,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xmm0[15],zero
; CHECK-NEXT:    vpsllvw %ymm1, %ymm0, %ymm1
; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm2 = xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],zero,xmm2[8],zero,xmm2[9],zero,xmm2[10],zero,xmm2[11],zero,xmm2[12],zero,xmm2[13],zero,xmm2[14],zero,xmm2[15],zero
; CHECK-NEXT:    vpsrlvw %ymm2, %ymm0, %ymm0
; CHECK-NEXT:    vpor %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vpmovwb %ymm0, %xmm0
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
```

```
 %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8
 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
 %shl = shl <16 x i8> %a, %b
 %lshr = lshr <16 x i8> %a, %b8
 %or = or <16 x i8> %shl, %lshr
 ret <16 x i8> %or
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsllw $4, %ymm0, %ymm2
; CHECK-NEXT:    vpsrlw $4, %ymm0, %ymm3
; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:    vpsllw $5, %ymm1, %ymm1
; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:    vpsllw $2, %ymm0, %ymm2
; CHECK-NEXT:    vpsrlw $6, %ymm0, %ymm3
; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:    vpaddb %ymm1, %ymm1, %ymm1
; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:    vpsrlw $7, %ymm0, %ymm2
; CHECK-NEXT:    vpaddb %ymm0, %ymm0, %ymm3
; CHECK-NEXT:    vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3
; CHECK-NEXT:    vpaddb %ymm1, %ymm1, %ymm1
;
 CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
; CHECK-NEXT:    retq
 %b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8
8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
 %shl = shl <32 x i8> %a, %b
 %lshr = lshr <32 x i8> %a, %b8
 %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256"
{
; CHECK-AVX512-LABEL: splatvar_rotate_v32i8:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpbroadcastb %xmm1, %xmm1
; CHECK-AVX512-NEXT:    vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-AVX512-NEXT:    vpmovzxbq {{.*#+}} xmm2 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-AVX512-NEXT:    vpsllw %xmm2, %ymm0, %ymm3
; CHECK-AVX512-NEXT:    vmovdqa {{.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-AVX512-NEXT:    vpsubb
```

```
 %xmm1, %xmm4, %xmm1
; CHECK-AVX512-NEXT:    vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-AVX512-NEXT:    vpsllw %xmm2, %xmm4, %xmm2
; CHECK-AVX512-NEXT:    vpbroadcastb %xmm2, %ymm2
; CHECK-AVX512-NEXT:    vpmovzxbq {{.*#+}} xmm1 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-AVX512-NEXT:    vpsrlw %xmm1, %ymm0, %ymm5
; CHECK-AVX512-NEXT:    vpand %ymm2, %ymm3, %ymm2
; CHECK-AVX512-NEXT:    vpsrlw %xmm1, %xmm4, %xmm0
; CHECK-AVX512-NEXT:    vpsrlw $8, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpbroadcastb %xmm0, %ymm0
; CHECK-AVX512-NEXT:    vpternlogq $236, %ymm5, %ymm2, %ymm0
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: splatvar_rotate_v32i8:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vpbroadcastb %xmm1, %xmm1
; CHECK-VBMI-NEXT:    vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-VBMI-NEXT:    vpmovzxbq {{.*#+}} xmm2 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-VBMI-NEXT:    vpsllw %xmm2,
 %ymm0, %ymm3
; CHECK-VBMI-NEXT:    vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-VBMI-NEXT:    vpsllw %xmm2, %xmm4, %xmm2
; CHECK-VBMI-NEXT:    vpbroadcastb %xmm2, %ymm2
; CHECK-VBMI-NEXT:    vpand %ymm2, %ymm3, %ymm2
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} xmm3 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-VBMI-NEXT:    vpsubb %xmm1, %xmm3, %xmm1
; CHECK-VBMI-NEXT:    vpmovzxbq {{.*#+}} xmm1 =
xmm1[0],zero,zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-VBMI-NEXT:    vpsrlw %xmm1, %ymm0, %ymm3
; CHECK-VBMI-NEXT:    vpsrlw %xmm1, %xmm4, %xmm0
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm1 =
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
; CHECK-VBMI-NEXT:    vpermb %ymm0, %ymm1, %ymm0
; CHECK-VBMI-NEXT:    vpternlogq $236, %ymm3, %ymm2, %ymm0
; CHECK-VBMI-NEXT:    retq
 %splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeroinitializer
 %splat8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8,
 i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %splat
 %shl = shl <32 x i8> %a, %splat
 %lshr = lshr <32 x i8> %a, %splat8
 %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: constant_rotate_v32i8:
```

```
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-AVX512-NEXT:    vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-AVX512-NEXT:    vbroadcasti128 {{.*#+}} ymm2 =
[8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-AVX512-NEXT:    # ymm2 = mem[0,1,0,1]
; CHECK-AVX512-NEXT:    vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-AVX512-NEXT:    vpsllw $2, %ymm1, %ymm3
; CHECK-AVX512-NEXT:    vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:    vpblendvb %ymm2, %ymm3, %ymm1,
 %ymm1
; CHECK-AVX512-NEXT:    vpaddb %ymm1, %ymm1, %ymm3
; CHECK-AVX512-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:    vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm3 =
ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13
],ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[24],ymm2[24],ymm0[25],ymm2[25],ymm0[26],ym
m2[26],ymm0[27],ymm2[27],ymm0[28],ymm2[28],ymm0[29],ymm2[29],ymm0[30],ymm2[30],ymm0[31],ymm2[
31]
; CHECK-AVX512-NEXT:    vpsllvw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:    vpsrlw $8, %ymm3, %ymm3
; CHECK-AVX512-NEXT:    vpunpcklbw {{.*#+}} ymm0 =
ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[
5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[
19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
; CHECK-AVX512-NEXT:
   vpsllvw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpor %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: constant_rotate_v32i8:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-VBMI-NEXT:    vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-VBMI-NEXT:    vbroadcasti128 {{.*#+}} ymm2 =
[8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-VBMI-NEXT:    # ymm2 = mem[0,1,0,1]
; CHECK-VBMI-NEXT:    vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-VBMI-NEXT:    vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT:    vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
; CHECK-VBMI-NEXT:    vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:    vpaddb %ymm1, %ymm1, %ymm3
; CHECK-VBMI-NEXT:    vpaddb %ymm2, %ymm2, %ymm2
```

```
; CHECK-VBMI-NEXT:    vpblendvb %ymm2, %ymm3,
 %ymm1, %ymm1
; CHECK-VBMI-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} ymm3 =
ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13
],ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[24],ymm2[24],ymm0[25],ymm2[25],ymm0[26],ym
m2[26],ymm0[27],ymm2[27],ymm0[28],ymm2[28],ymm0[29],ymm2[29],ymm0[30],ymm2[30],ymm0[31],ymm2[
31]
; CHECK-VBMI-NEXT:    vpsllvw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} ymm0 =
ymm0[0],ymm2[0],ymm0[1],ymm2[1],ymm0[2],ymm2[2],ymm0[3],ymm2[3],ymm0[4],ymm2[4],ymm0[5],ymm2[
5],ymm0[6],ymm2[6],ymm0[7],ymm2[7],ymm0[16],ymm2[16],ymm0[17],ymm2[17],ymm0[18],ymm2[18],ymm0[
19],ymm2[19],ymm0[20],ymm2[20],ymm0[21],ymm2[21],ymm0[22],ymm2[22],ymm0[23],ymm2[23]
; CHECK-VBMI-NEXT:    vpsllvw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm2 =
[1,3,5,7,9,11,13,15,33,35,37,39,41,43,45,47,17,19,21,23,25,27,29,31,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b
 %ymm3, %ymm0, %ymm2
; CHECK-VBMI-NEXT:    vpor %ymm2, %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
 %shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8
1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1>
 %lshr = lshr <32 x i8> %a, <i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8,
i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7>
 %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT:    vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT:    retq
 %shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4,
 i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4,
i8 4>
 %lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4,
i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
 %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsllw $4, %ymm0, %ymm1
```

; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: vpand {{.*}}(%rip), %ymm0, %ymm0
; CHECK-NEXT: retq
 %shl = shl <32 x i8> %a, <i8 4, i8 4,
 i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
 %lshr = lshr <32 x i8> %a, <i8 4, i8 4>
 %rmask = and <32 x i8> %lshr, <i8 55, i8 55>
 %lmask = and <32 x i8> %shl, <i8 33, i8 33>
 %or = or <32 x i8> %lmask, %rmask
 ret <32 x i8> %or
}
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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
entry:
 %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
                                        metadata !"fpexcept.strict")
                                        strictfp
 ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)

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THE SOFTWARE.
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --check-attributes
; RUN: opt -attributor -enable-new-pm=0 -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS__TUNIT____,IS________OPM,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________NPM,IS__TUNIT_NPM
; RUN: opt -attributor-cgscc -enable-new-pm=0 -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS__CGSCC____,IS________OPM,IS__CGSCC_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgscc
 -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS__CGSCC____,IS________NPM,IS__CGSCC_NPM
; Test that we only promote arguments when the caller/callee have compatible
; function attrubtes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
;

```
; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR0:#.*]] {
; IS________OPM-NEXT:  bb:
; IS________OPM-NEXT:
   [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT:    ret void
;
; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) [[ATTR0:#.*]] {
; IS________NPM-NEXT:  bb:
; IS________NPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1

 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR0:#.*]] {
; IS__TUNIT_OPM-NEXT:  bb:
; IS__TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__TUNIT_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture
 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7:#.*]]
; IS__TUNIT_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
```

```
; IS__TUNIT_OPM-NEXT:    ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR0:#.*]] {
; IS__TUNIT_NPM-NEXT:  bb:
; IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull
 writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__TUNIT_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7:#.*]]
; IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR0:#.*]] {
; IS__CGSCC_OPM-NEXT:  bb:
;
 IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__CGSCC_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7:#.*]]
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync
 nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR0:#.*]] {
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
```

```
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
; IS__CGSCC_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
 [[ATTR7:#.*]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
;
 IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR1:#.*]] {
; IS________OPM-NEXT:  bb:
; IS________OPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT:    ret void
;
; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) [[ATTR1:#.*]] {
; IS________NPM-NEXT:  bb:
; IS________NPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS________NPM-NEXT:    store <8 x i64>
 [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
```

```
; IS________NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR1:#.*]] {
; IS__TUNIT_OPM-NEXT:  bb:
; IS__TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:
 call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:    ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR1:#.*]] {
; IS__TUNIT_NPM-NEXT:  bb:
;
 IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse
```

```
 nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR1:#.*]] {
; IS__CGSCC_OPM-NEXT:  bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_OPM-NEXT:
   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR1:#.*]] {
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT:    [[TMP0:%.*]]
 = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
```

```
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8
 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
;
; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR1]] {
; IS________OPM-NEXT:  bb:
; IS________OPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT:    ret void
;
; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS________NPM-SAME: (<8 x i64>* noalias
 nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
[[ATTR1]] {
; IS________NPM-NEXT:  bb:
; IS________NPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR0]] {
;
 IS__TUNIT_OPM-NEXT:  bb:
; IS__TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
```

; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR0]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR0]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)

```
[[ARG:%.*]]) [[ATTR0]] {
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]]
 to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8
 x i64>* %tmp2, <8 x i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
;
; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR0]] {
; IS________OPM-NEXT:  bb:
; IS________OPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT:    ret void
;
; IS________NPM:
 Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
```

```
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) [[ATTR0]] {
; IS________NPM-NEXT:  bb:
; IS________NPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint
 nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR1]] {
; IS__TUNIT_OPM-NEXT:  bb:
; IS__TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_OPM-NEXT:
   [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:    ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR1]] {
; IS__TUNIT_NPM-NEXT:  bb:
; IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:
   call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias
nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
```

```
[[ATTR7]]
; IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR1]] {
; IS__CGSCC_OPM-NEXT:  bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:
   call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]])
 [[ATTR1]] {
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
;
bb:
 %tmp = alloca <8
 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
```

```
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
;
; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define
{{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
 [[ATTR1]] {
; IS________OPM-NEXT:  bb:
; IS________OPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT:    ret void
;
; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64
dereferenceable(64) [[ARG1:%.*]]) [[ATTR1]] {
; IS________NPM-NEXT:  bb:
; IS________NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x
 i64>* %arg
 ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR2:#.*]] {
; IS__TUNIT_OPM-NEXT:  bb:
; IS__TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
```

; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly
 align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR2:#.*]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
 [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR2:#.*]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca
 <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2

```
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define
 {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR2:#.*]] {
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>,
 <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
;
; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS________OPM-SAME: (<8 x i64>* nocapture
 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]]) [[ATTR2:#.*]] {
; IS________OPM-NEXT:  bb:
; IS________OPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT:    ret void
```

```
;
; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64
dereferenceable(64) [[ARG1:%.*]]) [[ATTR2:#.*]] {
; IS________NPM-NEXT:  bb:
; IS________NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________NPM-NEXT:
   store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR1]] {
; IS__TUNIT_OPM-NEXT:  bb:
; IS__TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef
 false) [[ATTR6]]
; IS__TUNIT_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:    ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR1]] {
; IS__TUNIT_NPM-NEXT:  bb:
; IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP3:%.*]]
 = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
```

```
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef
nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>*
 nocapture nofree nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR1]] {
; IS__CGSCC_OPM-NEXT:  bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:
   ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR1]] {
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8
 x i64>* noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
```

```
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
;
; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
;
 IS________OPM-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR3:#.*]] {
; IS________OPM-NEXT:  bb:
; IS________OPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT:    ret void
;
; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) [[ATTR3:#.*]] {
; IS________NPM-NEXT:  bb:
; IS________NPM-NEXT:    [[ARG1_PRIV:%.*]]
 = alloca <8 x i64>, align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR4:#.*]] {
```

; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]]
 = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly
 [[ARG:%.*]]) [[ATTR4:#.*]] {
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void
;
; IS__CGSCC_OPM:
 Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR4:#.*]] {
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly

```
 align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR4:#.*]] {
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false)
 [[ATTR6]]
; IS__CGSCC_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc
 void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly
%arg1) #4 {
;
; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR4:#.*]] {
; IS________OPM-NEXT:  bb:
; IS________OPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
```

```
; IS________OPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT:    ret void
;
; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS________NPM-SAME:
 (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x
i64> [[TMP0:%.*]]) [[ATTR4:#.*]] {
; IS________NPM-NEXT:  bb:
; IS________NPM-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS________NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
;
; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly
 [[ARG:%.*]]) [[ATTR3:#.*]] {
; IS__TUNIT_OPM-NEXT:  bb:
; IS__TUNIT_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_OPM-NEXT:    call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree noundef nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64
dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:    ret void
;
; IS__TUNIT_NPM: Function Attrs: argmemonly
 inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR3:#.*]] {
; IS__TUNIT_NPM-NEXT:  bb:
; IS__TUNIT_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
```

```
; IS__TUNIT_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT:    call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
;
 IS__TUNIT_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:    ret void
;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR3:#.*]] {
; IS__CGSCC_OPM-NEXT:  bb:
; IS__CGSCC_OPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT:    call fastcc
 void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly
align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void
;
; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR3:#.*]] {
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast
 <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT:    [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:    call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void
```

```
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8
 x i64>* %tmp2, <8 x i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256"
 }
attributes #5 = { argmemonly nounwind }
add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
 ObjectContainerBSDArchive.cpp

 LINK_LIBS
   lldbCore
   lldbHost
   lldbSymbol
 LINK_COMPONENTS
   Support
 )
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; RUN: llc -march=hexagon -hexagon-hvx-widen=32 < %s | FileCheck %s

; Truncating a type-to-be-widenened to a legal type (v8i8).
; Check that this compiles successfully.
; CHECK-LABEL: f0:
; CHECK: dealloc_return

```
target datalayout = "e-m:e-p:32:32:32-a:0-n16:32-i64:64:64-i32:32:32-i16:16:16-i1:8:8-f32:32:32-f64:64:64-
v32:32:32-v64:64:64-v512:512:512-v1024:1024:1024-v2048:2048:2048"
target triple = "hexagon"

define dllexport void @f0(i8* %a0) local_unnamed_addr #0 {
b0:
 %v0 = load i8, i8* undef, align 1
 %v1 = zext i8 %v0 to i16
 %v2 = add i16 0, %v1
 %v3 = icmp sgt i16 %v2, 1
 %v4 = select i1 %v3, i16 %v2, i16 1
 %v5 = udiv i16 -32768, %v4
 %v6 = zext i16 %v5 to i32
 %v7 = insertelement <8 x i32> undef, i32 %v6, i32 0
 %v8 = shufflevector <8 x i32> %v7, <8 x i32> undef, <8 x i32> zeroinitializer
 %v9 = load <8 x i16>, <8 x i16>* undef, align 2
 %v10 = sext <8 x i16> %v9 to <8 x i32>
 %v11 = mul nsw <8 x i32> %v8, %v10
 %v12 = add nsw <8 x i32> %v11, <i32 16384, i32 16384,
 i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384>
 %v13 = lshr <8 x i32> %v12, <i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15>
 %v14 = trunc <8 x i32> %v13 to <8 x i8>
 %v15 = getelementptr inbounds i8, i8* %a0, i32 undef
 %v16 = bitcast i8* %v15 to <8 x i8>*
 store <8 x i8> %v14, <8 x i8>* %v16, align 1
 ret void
}

attributes #0 = { "target-features"="+hvx,+hvx-length128b" }
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# https://developers.google.com/open-source/cla/corporate
#
# The agreement for individuals can be filled out on the web.
#
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```

#
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; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=VEC256,AVX
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; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=AVX512VL512
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,SKX256
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define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction:
 %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost

```
 Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext256'
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = zext <8
 x i16> undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'zext512'
; AVX512VL256-NEXT:  Cost Model: Found an estimated
 cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
```

```
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x
 i8> undef to <16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost
 of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = zext <8 x i16> undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
```

```
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL:
 'sext256'
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext256'
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction:
 %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext256'
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT:  Cost
 Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = sext <8 x i8> undef to <8 x i64>
```

```
 %B = sext <8 x i16> undef to <8 x i64>
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8> undef to <16 x i32>
 %E = sext <16 x i16> undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found
 an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
;
 AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated
```

```
 cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext512'
; SKX512-NEXT:  Cost Model:
 Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = sext <8 x i8> undef to <8 x i64>
 %B = sext <8 x i16> undef to <8 x i64>
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8> undef to <16 x i32>
 %E = sext <16 x i16> undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}

define
 void @trunc256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc256'
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x
```

i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'trunc256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX512VL256-NEXT:
  Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated
 cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
;
 SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x

```
i8>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x
i8>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x
i8>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %F = trunc
 <32 x i16> undef to <32 x i8>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = trunc <8 x i64> undef to <8 x i32>
 %B = trunc <8 x i64> undef to <8 x i16>
 %C = trunc <8 x i64> undef to <8 x i8>
 %D = trunc <16 x i32> undef to <16 x i16>
 %E = trunc <16 x i32> undef to <16 x i8>
 %F = trunc <32 x i16> undef to <32 x i8>
 ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x
i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i32
 = zext <4 x i1> undef to <4 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
```

i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost
 of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
;
 AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost
 Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to

<8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an
 estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction:
 %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1>
 undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;

; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an
 estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef
 to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>

; SKX512-NEXT: Cost Model: Found an estimated cost
 of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
;
 SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
 %V2i64 = zext <2 x i1> undef to <2 x i64>
 %V4i64 = zext <4 x i1> undef to <4 x i64>
 %V8i64 = zext <8 x i1> undef to <8 x i64>

 %V2i32 = zext <2 x i1> undef to <2 x i32>
 %V4i32 = zext <4 x i1> undef to <4 x i32>
 %V8i32 = zext <8 x i1> undef to <8 x i32>
 %V16i32 = zext <16 x i1> undef to <16 x i32>

 %V2i16 = zext <2
 x i1> undef to <2 x i16>
 %V4i16 = zext <4 x i1> undef to <4 x i16>
 %V8i16 = zext <8 x i1> undef to <8 x i16>
 %V16i16 = zext <16 x i1> undef to <16 x i16>
 %V32i16 = zext <32 x i1> undef to <32 x i16>

 %V2i8 = zext <2 x i1> undef to <2 x i8>

```
 %V4i8 = zext <4 x i1> undef to <4 x i8>
 %V8i8 = zext <8 x i1> undef to <8 x i8>
 %V16i8 = zext <16 x i1> undef to <16 x i8>
 %V32i8 = zext <32 x i1> undef to <32 x i8>
 %V64i8 = zext <64 x i1> undef to <64 x i8>

 ret i32 undef
}

define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256_vXi1'
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef
 to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8
 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x
i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x
i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to
```

<64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated
 cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8
 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT:
  Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost
 of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x
 i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost
 of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found
 an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
;
 SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'sext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>

; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
 %I64 = sext i1 undef to i64
 %V2i64 = sext <2 x i1> undef to <2 x i64>
 %V4i64 = sext <4 x i1> undef to <4 x i64>
 %V8i64 = sext <8 x i1> undef to <8 x i64>

 %I32 =
 sext i1 undef to i32
 %V2i32 = sext <2 x i1> undef to <2 x i32>
 %V4i32 = sext <4 x i1> undef to <4 x i32>
 %V8i32 = sext <8 x i1> undef to <8 x i32>
 %V16i32 = sext <16 x i1> undef to <16 x i32>

```
 %I16 = sext i1 undef to i16
 %V2i16 = sext <2 x i1> undef to <2 x i16>
 %V4i16 = sext <4 x i1> undef to <4 x i16>
 %V8i16 = sext <8 x i1> undef to <8 x i16>
 %V16i16 = sext <16 x i1> undef to <16 x i16>
 %V32i16 = sext <32 x i1> undef to <32 x i16>

 %I8 = sext i1 undef to i8
 %V2i8 = sext <2 x i1> undef to <2 x i8>
 %V4i8 = sext <4 x i1> undef to <4 x i8>
 %V8i8 = sext <8 x i1> undef to <8 x i8>
 %V16i8 = sext <16 x i1> undef to <16 x i8>
 %V32i8 = sext <32 x i1> undef to <32 x i8>
 %V64i8 = sext <64 x i1> undef to <64 x i8>

 ret i32 undef
}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc_vXi1'
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x
i1>
; AVX-NEXT:  Cost Model: Found an estimated
 cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x
i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
<16 x i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to
<32 x i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to
<64 x i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x
i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x
i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x
i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16
 x i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to
<32 x i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to
<64 x i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x
i1>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x
i1>
```

; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction:
 %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL256-NEXT:
  Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model:
 Found an estimated cost of 10 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16>

undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16>
undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model:
Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef
to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef
to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8>
undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 17 for instruction: %V32i8 = trunc <32 x i8>
undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 34 for instruction: %V64i8 = trunc <64 x i8>
undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated
cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64>
undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64>
undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32>
undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32>
undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32>
undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2
for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32>
undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32>
undef to <64 x i1>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 14 for instruction:
 %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2
 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX256-NEXT: Cost Model:
 Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to

<32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction:
 %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost
 Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction:
 %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
;
 SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
 %V2i64 = trunc <2 x i64> undef to <2 x i1>
 %V4i64 = trunc <4 x i64> undef to <4 x i1>
 %V8i64 = trunc <8 x i64> undef to <8 x i1>
 %V16i64 = trunc <16 x i64> undef to <16 x i1>
 %V32i64 = trunc <32 x i64>
 undef to <32 x i1>
 %V64i64 = trunc <64 x i64> undef to <64 x i1>

 %V2i32 = trunc <2 x i32> undef to <2 x i1>
 %V4i32 = trunc <4 x i32> undef to <4 x i1>
 %V8i32 = trunc <8 x i32> undef to <8 x i1>
 %V16i32 = trunc <16 x i32> undef to <16 x i1>
 %V32i32 = trunc <32 x i32> undef to <32 x i1>
 %V64i32 = trunc <64 x i32> undef to <64 x i1>

```
 %V2i16 = trunc <2 x i16> undef to <2 x i1>
 %V4i16 = trunc <4 x i16> undef to <4 x i1>
 %V8i16 = trunc <8 x i16> undef to <8 x i1>
 %V16i16 = trunc <16 x i16> undef to <16 x i1>
 %V32i16 = trunc <32 x i16> undef to <32 x i1>
 %V64i16 = trunc <64 x i16> undef to <64 x i1>

 %V2i8 = trunc <2 x i8> undef to <2 x i1>
 %V4i8 = trunc <4 x i8> undef to <4 x i1>
 %V8i8 = trunc <8 x i8> undef to <8 x i1>
 %V16i8 = trunc <16 x i8> undef to <16 x i1>
 %V32i8 = trunc <32 x i8> undef to <32 x i1>
 %V64i8 = trunc <64 x i8> undef to <64 x i1>

 ret i32 undef
}
```

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1.208 screen 4.8.0

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notice like this when it starts in an interactive mode:

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

The hypothetical commands `show w' and `show c' should show the appropriate
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1.209 pytz 2021.1

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1.211 binutils 2.36.1

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

If you've contributed to gas and your name isn't listed here, it is
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nickc@redhat.com and I'll correct the situation.

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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free

library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we
use the Lesser General Public License.

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

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

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

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

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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

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

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

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

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

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

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

must be
distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

engineering for debugging such modifications.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with
the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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

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

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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and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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

Preamble

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

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
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your libraries, too.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's

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

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

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

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

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

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

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

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

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

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of
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1.212 supervisor 4.2.1

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1.213 pyserial 3.5

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1.214 python3-funcsigs 1.0.2

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1.215 distlib 0.3.2

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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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distlib has started off using some of the code from distutil2.

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1.217 protobuf 3.14.0

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  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
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  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing
    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only
once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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1.218 urllib3 1.26.5

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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
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This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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 * HTTPS patch (which inspired HTTPSConnectionPool)

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 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
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 * Design review, bugfixes, test coverage.

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 * IPv6 url support and test coverage

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 * Support for explicitly closing pooled connections

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 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Aaron Meurer
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 * Added Url.url, which unparses a Url

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

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

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

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

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

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

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

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

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

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

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.

* Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
* Creation of ``HTTPConnectionPool.ResponseCls``.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

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

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

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

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

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

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

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

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

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

* Jorge Lopez Silva <https://github.com/jalopezsilva>
 * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
 * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
 * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
 * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
 * Test improvements

* Chris Olufson <tycarac@gmail.com>
 * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
 * Support for logging session keys
 via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
 * Ports and extends on types from typeshed

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

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1.221 json-c 0.99.9

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1.222 lighttpd 1.4.59

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1.223 rsyslog 8.2102.0

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##
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##
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1.233 nghttp2 1.44.0

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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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1.234 pep517 0.11.0

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1.235 python-requests 2.26.0

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1.236 binutils 2.35.50

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++++++++++++++++

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

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

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,

i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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and a pointer to where the full notice is found.

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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Version 2, June 1991

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

Preamble

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

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code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making
changes to the library and recompiling
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Our method of protecting your rights has two steps: (1) copyright
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
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<one line to give the library's name and a brief idea of what it does.>
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1.237 pigz 2.6

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1.238 six 1.15.0

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1.239 iconv 2.33

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1.243 debianutils 4.11.2

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1.244 liburcu 0.12.2

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source code for the Library including whatever
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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:

https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his
patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project
was therefore changed to
LGPLv2.1 on May 13, 2009, as detailed in LICENSE.
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Version 2, June 1991

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1.245 python-chardet 4.0.0

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1.246 tcl 8.6.11

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1.247 jackson-annotations 2.12.0

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1.248 python-setuptools 58.1.0

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1.249 luajit 2.1.0.beta3

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1.251 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

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1.253 spf13-pflag 1.0.5

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1.254 x-text 0.3.7

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1.255 serialx-hashring 0.0.0-20190422032157-8b2912629002

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1.256 tonistiigi-vt100 0.0.0-20210615222946-8066bb97264f

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1.257 aec 1.0.0

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1.258 docker-go-metrics 0.0.1

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1.265 dropbear 2020.81

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1.276 pycparser 2.20

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1.278 protobuf 1.4.3

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1.279 json-iterator-go 1.1.12

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1.280 gnupg 2.2.27

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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1.285 glib 2.66.7

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1.286 pep517 0.7.0

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1.287 go-colorable 0.1.12

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1.288 libedit 3.1

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1.289 google-apis 1.4.1

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1.290 x-oauth2 0.0.0-20211104180415-d3ed0bb246c8

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1.291 x-sys 0.0.0-20201119102817-f84b799fce68

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1.292 chardet 3.0.4

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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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1.295 crs-client 0.6.0

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1.297 gojsonschema 1.2.0

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1.298 libassuan 2.5.4

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notice like this when it starts in an interactive mode:

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1.300 inetutils 2.0

1.300.1 Available under license :

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Version 3, 29 June 2007

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man/bitstring.3bsd
man/errc.3bsd
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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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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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school, if any, to sign a "copyright disclaimer" for the program, if
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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1.305 willf-bitset 1.1.11

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1.306 keyutils 1.6.1

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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(For example, a function in a library to compute square roots has

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

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

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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
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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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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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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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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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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
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a)
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will

operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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Also add information on how to contact you by electronic and paper
mail.

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

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

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

That's all there is to it!

1.311 libpwquality 1.4.4

1.311.1 Available under license :

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

/*
* pw.c
*
* AAA password routines, adopted from IOX
*
* January 2005, Naiming Shen
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*
*---
* pw.c -- password encryption/decryption routines
*
* May 08 2000, Mark Eklund

```
*
* Copyright (c) 2002-2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*-----------------------------------------------------------------
*/
```

Found in path(s):
* /pw-tar/pw/src/pw.c
No license file was found, but licenses were detected in source scan.

```
/*
* pw_defs.h
*
* Password defines.
*
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*
*/
```

Found in path(s):
* /pw-tar/pw/include/pw_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* pw.h
*
* Password routines, adopted from IOX
*
* May 2000 Mark Eklund
* July 2005, Craig MacFarlane
*
* Copyright (c) 2000-2005, 2007, 2010, 2014, 2018 by cisco Systems, Inc.
* All rights reserved.
*/
/*
* edt: * pw_type_t
*      Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
*       The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*       The password encrypted to an MD5 digest.  This is not reversible.
*
* item: PW_TYPE_1WAY_2
```

```
*       The password encrypted to an sha256 digest.  This is not reversible.
*
* item: PW_TYPE_2WAY
*       The Cisco type 7 password encryption.  This is reversible
*  by both Cisco products and several public domain programs.
*/
```

Found in path(s):
* /pw-tar/pw/include/pw.h
No license file was found, but licenses were detected in source scan.

```
# All rights reserved.
```

Found in path(s):
* /pw-tar/pw/Makefile.binos
No license file was found, but licenses were detected in source scan.

```
/*
* pw_const.tph
*
* Copyright (c) 2019 by Cisco Systems, Inc.
* All rights reserved.
*/

@DIRECTIVES{
  auto_import_stg = false;
  skip_auto_tdl_include = true;
}@

@IMPORT_STG{
  import "constant_gen.stg";
}@

@TDL{
  import "pw_const.tdl"
}@

@CODE{

#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

  $constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

}@
```

Found in path(s):
* /pw-tar/pw/include/pw_const.tph

1.312 backoff 4.1.2

1.312.1 Available under license :

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1.313 crash 7.3.0

1.313.1 Available under license :

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Version 3, 29 June 2007

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For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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```

For lib/py/compat/win32/stdint.h

```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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```

1.318 otel-exporters-otlp-internal-retry 1.4.1

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lib/erl/src/Makefile.am

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(By Douglas Crockford <douglas@crockford.com>)

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```
/* socketpair.c
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*/

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
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Codegen template
in t_html_generator.h

* Bootstrap v2.0.3

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1.320 proto-otlp 0.12.0

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1.323 contrib-instrumentation-net-http-httptrace-otelhttptrace 0.29.0

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1.324 fdisk 2.38.0

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2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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1.326 rpm 4.16.1

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1.327 xdelta 3.1.0

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Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>
Source: https://github.com/thkukuk/libnsl

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 configure.ac
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 libnsl.pc.in
 Makefile.am
 NEWS
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 src/Makefile.am
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 src/internal.h
 src/libnsl.map
 src/nisplus/nis_error.c
 src/taddr2host.c
 src/taddr2ipstr.c
 src/taddr2port.c
 src/yp_first.c
 src/yp_get_default_domain.c
 src/yp_maplist.c
 src/yp_master.c
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Files: src/libc-lock.h
 src/nisplus/nis_add.c
 src/nisplus/nis_addmember.c
 src/nisplus/nis_call.c
 src/nisplus/nis_callback.c
 src/nisplus/nis_checkpoint.c
 src/nisplus/nis_clone_dir.c
 src/nisplus/nis_clone_obj.c
 src/nisplus/nis_clone_res.c
 src/nisplus/nis_creategroup.c
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src/nisplus/nis_destroygroup.c
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src/nisplus/nis_domain_of_r.c
src/nisplus/nis_file.c
src/nisplus/nis_findserv.c
src/nisplus/nis_free.c
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src/nisplus/nis_hash.c
src/nisplus/nis_intern.h
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src/nisplus/nis_local_names.c
src/nisplus/nis_lookup.c
src/nisplus/nis_mkdir.c
src/nisplus/nis_modify.c
src/nisplus/nis_ping.c
src/nisplus/nis_print.c
src/nisplus/nis_print_group_entry.c
src/nisplus/nis_remove.c
src/nisplus/nis_removemember.c
src/nisplus/nis_rmdir.c
src/nisplus/nis_server.c
src/nisplus/nis_subr.c
src/nisplus/nis_table.c
src/nisplus/nis_util.c
src/nisplus/nis_verifygroup.c
src/nisplus/nis_xdr.c
src/nisplus/nis_xdr.h
src/rpcsvc/nislib.h
src/rpcsvc/ypclnt.h

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src/rpcsvc/nis_callback.x
src/rpcsvc/nis_object.x
src/rpcsvc/nis_tags.h
src/rpcsvc/nis.h
src/rpcsvc/nis.x
src/rpcsvc/yp.h
src/rpcsvc/yp.x
src/rpcsvc/yp_prot.h
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src/rpcsvc/yppasswd.x
src/rpcsvc/ypupd.h
src/yp_xdr.c

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 m4/host-cpu-c-abi.m4
 m4/iconv.m4
 m4/intlmacosx.m4
 m4/lib-ld.m4
 m4/lib-link.m4
 m4/lib-prefix.m4
 m4/libtool.m4
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1.332 gdb 10.1

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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.

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply

a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

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

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

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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

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

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Finally, software patents pose a constant threat to the existence

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we
use the Lesser General Public License.

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

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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program which contains a notice placed by the copyright holder or
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Each licensee is addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's
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on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

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

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

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

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

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

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

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

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

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable

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

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

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

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

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

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

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

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

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of using an interface provided by the Library.

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

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

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

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

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This option is useful when you wish to copy part of the code of the
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of

the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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b) Accompany the work
with a written offer, valid for at
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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@setfilename gpl
@settitle GNU General Public License
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@c man end

1.333 python-certifi 2021.05.30

1.333.1 Available under license :

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

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
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an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.334 talloc 2.3.3

1.334.1 Available under license :

/*
  Unix SMB/CIFS implementation.
  Samba temporary memory allocation functions

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The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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3. Object Code Incorporating Material from Library Header Files.

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e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the

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

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1.335 json-glib 1.6.2

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use
the Lesser General Public License.

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

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

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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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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
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whether or not they are linked directly with the Library itself.

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

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

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1.336 gobject-introspection 1.66.1

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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1.337 at 3.2.1

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This is the Debian GNU/Linux prepackaged version of the deferred
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In August 2009 the upstream development and Debian packaging were taken over
by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

In August 2015 the upstream development and Debian packaging were
taken over by Jose M Calhariz <jose@calhariz.com>

This may be considered the experimental upstream source, and since there
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1.338 man-db 2.9.4

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CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
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CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/local/bin'
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CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/local/share'
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hello world
merhaba dnya

4-Byte sequences:
Perch (Fish) Elevator !
^CMAKE_INSTALL_BINDIR='bin'
CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Opt'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR='(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='man'
CMAKE_INSTALL_SBINDIR='sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/opt/Opt/bin'
CMAKE_INSTALL_FULL_DATADIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/opt/Opt/share'
CMAKE_INSTALL_FULL_DOCDIR='/opt/Opt/share/doc/Opt'
CMAKE_INSTALL_FULL_INCLUDEDIR='/opt/Opt/include'
CMAKE_INSTALL_FULL_INFODIR='/opt/Opt/info'
CMAKE_INSTALL_FULL_LIBDIR='/opt/Opt/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/opt/Opt/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/opt/Opt/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var/opt/Opt'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run/opt/Opt'
CMAKE_INSTALL_FULL_MANDIR='/opt/Opt/man'
CMAKE_INSTALL_FULL_SBINDIR='/opt/Opt/sbin'
CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/opt/Opt/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc/opt/Opt'$

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==========

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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jloup@gzip.org
  madler@alumni.caltech.edu

^CMake Deprecation Warning at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:2 \(message\):
 Deprecation warning
+
CMake Warning \(dev\) at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:3 \(message\):
 Author warning message
This warning is for project developers\. Use -Wno-dev to suppress it\.
+
CMake Warning at.*/Tests/RunCMake/message/message-all-loglevels\.cmake:4 \(message\):
 Warning message
+
Default NOTICE message
NOTICE message$
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^CMAKE_INSTALL_BINDIR='usr/bin'
CMAKE_INSTALL_DATADIR='usr/share'
CMAKE_INSTALL_DATAROOTDIR='usr/share'
CMAKE_INSTALL_DOCDIR='usr/share/doc/Root'
CMAKE_INSTALL_INCLUDEDIR='usr/include'
CMAKE_INSTALL_INFODIR='usr/info'
CMAKE_INSTALL_LIBDIR='usr/(lib|lib64)'
CMAKE_INSTALL_LIBEXECDIR='usr/libexec'
CMAKE_INSTALL_LOCALEDIR='usr/share/locale'
CMAKE_INSTALL_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='usr/man'
CMAKE_INSTALL_SBINDIR='usr/sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='usr/com'
CMAKE_INSTALL_SYSCONFDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Root'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64)'
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
CMAKE_INSTALL_FULL_LOCALEDIR='/usr/share/locale'
CMAKE_INSTALL_FULL_LOCALSTATEDIR='/var'
CMAKE_INSTALL_FULL_RUNSTATEDIR='/var/run'
CMAKE_INSTALL_FULL_MANDIR='/usr/man'
CMAKE_INSTALL_FULL_SBINDIR='/usr/sbin'

CMAKE_INSTALL_FULL_SHAREDSTATEDIR='/usr/com'
CMAKE_INSTALL_FULL_SYSCONFDIR='/etc'$
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1.340 gperftools 2.9.1

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1.341 lttng-ust 2.12.1

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Mathieu Desnoyers
December 5, 2012

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1.342 glib-networking 2.66.0

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If distribution of object code is made by offering access to copy
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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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
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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1.350 kubernetes-client 0.24.1

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1.351 runc 1.1.3

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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/DeferredProvider.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/BundleClassSpace.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/inject/PropertyBinding.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/DeferredClass.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/FileEntryIterator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/URLClassSpace.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/ZipEntryIterator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/inject/BeanBinder.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/DeclaredMembers.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/BeanPropertyIterator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/ResourceEnumeration.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/inject/BeanListener.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/BeanProperty.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/inject/BeanInjector.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/InjectionException.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Instance.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/AmbiguousResolutionException.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/UnsatisfiedResolutionException.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/WatchedBeans.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Streams.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Sisu.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/ImplicitBindings.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/SisuActivator.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/BeanLocator.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/Main.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/BeanProviders.java
*
 /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/spi/BindingPublisher.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/converters/URLTypeConverter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Description.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/ElementAnalyzer.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/containers/InjectedTest.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/ElementMerger.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/Parameters.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/converters/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/LazyBeanEntry.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/EntryListAdapter.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/QualifyingStrategy.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/LoadedClass.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/BeanEntry.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/BeanDescription.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/RankedBindings.java
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/sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/IgnoreSetters.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/HiddenBinding.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/ResolutionException.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/IllegalProductException.java

*
/sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Alternative.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Stereotype.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Disposes.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/New.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Specializes.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/Default.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/enterprise/inject/CreationException.java
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Found in path(s):
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/Qualifier.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/Provider.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/Named.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/Inject.java
*
/sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/Singleton.java
* /sisu-inject-bean-2-3-0-sources-2-jar/javax/inject/Scope.java
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Found in path(s):
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/MildValues.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/SisuIndexFinder.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/inject/BeanScanning.java
*
/sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Weak.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/MergedProperties.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/Soft.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/AbstractSisuIndex.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/SisuIndexAPT6.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/ClassFinder.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/Implicit.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/locators/WildcardKey.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/binders/StringProperties.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/MildKeys.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/reflect/MildElements.java
*
/sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/index/SisuIndex.java
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* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ClassVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/AnnotationVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/MethodWriter.java
*
/sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Handler.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Frame.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/package-info.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/AnnotationWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Label.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Item.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/FieldVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/FieldWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ClassWriter.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ByteVector.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Attribute.java
*
/sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Type.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Opcodes.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/MethodVisitor.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/ClassReader.java
* /sisu-inject-bean-2-3-0-sources-2-jar/org/sonatype/guice/bean/scanners/asm/Edge.java

1.355 aether-impl 1.13.1

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Found in path(s):
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/Slf4jLogger.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/Utils.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultArtifactResolver.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/EdgeStack.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/MetadataGenerator.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/MetadataResolver.java

*
/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultLocalRepositoryProvider.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/AbstractLocalRepositoryMaintainer.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/LocalRepositoryProvider.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/ArtifactResolver.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultDeployer.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultDependencyCollector.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/LocalRepositoryEvent.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/GraphEdge.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/ArtifactDescriptorReader.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/PlexusLogger.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/UpdateCheck.java
*
/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DataPool.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/SyncContextFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/EnhancedLocalRepositoryManager.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultFileProcessor.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/CachingArtifactTypeRegistry.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/UpdateCheckManager.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/VersionResolver.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/Installer.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/RemoteRepositoryManager.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/SimpleDigest.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultServiceLocator.java
*
/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/MetadataGeneratorFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultLocalRepositoryEvent.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultSyncContextFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/SimpleLocalRepositoryManagerFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/DependencyCollector.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/RepositoryEventDispatcher.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultMetadataResolver.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/LocalRepositoryMaintainer.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/TrackingFileManager.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/Deployer.java
*
/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/ObjectPool.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultInstaller.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultRemoteRepositoryManager.java
* /aether-impl-1-13-1-sources-2-
jar/org/sonatype/aether/impl/internal/EnhancedLocalRepositoryManagerFactory.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/CacheUtils.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/VersionRangeResolver.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultDependencyCollectionContext.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultRepositoryEventDispatcher.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultRepositorySystem.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/DefaultUpdateCheckManager.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/SimpleLocalRepositoryManager.java

*
/aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/GraphNode.java
* /aether-impl-1-13-1-sources-2-
jar/org/sonatype/aether/impl/internal/DefaultDependencyGraphTransformationContext.java
* /aether-impl-1-13-1-sources-2-jar/org/sonatype/aether/impl/internal/ArtifactRequestBuilder.java

1.356 sisu-inject-plexus 2.3.0

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* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/IntConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/ParameterizedConfigurationConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/ComponentConfigurator.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/ConfigurationConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/LongConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-

jar/org/codehaus/plexus/component/configurator/converters/basic/StringBufferConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/AbstractConfigurationConverter.java
*
/sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/BooleanConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/composite/ArrayConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/StringConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/CharConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/ShortConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/composite/CollectionConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/composite/PropertiesConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/AbstractBasicConverter.java
*
/sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/composite/MapConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/AbstractComponentConfigurator.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/UrlConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/lookup/ConverterLookup.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/FileConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/DoubleConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/DateConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/composite/PlexusConfigurationConverter.java
*
/sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/BasicComponentConfigurator.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/EnumConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/ByteConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/basic/Converter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/configurator/converters/composite/ObjectWithFieldsConverter.java

* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/composite/ComponentDefaultValueSetter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/basic/FloatConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/configurator/converters/lookup/DefaultConverterLookup.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/LoggerManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusXmlBeanModule.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentRequirement.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/DefaultPlexusContainer.java
*
 /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/ClassRealmUtils.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentDescriptor.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusContainerException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusAnnotatedBeanModule.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusPropertyBinder.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusTypeRegistry.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/context/ContextException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusXmlMetadata.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/StartingException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentRequirementList.java
*
 /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusConfigurations.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Disposable.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/RealmFilter.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/Strategies.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/annotations/ConfigurationImpl.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/DefaultPlexusBeans.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/context/Context.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/context/DefaultContext.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/ServiceLocator.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/factory/AbstractComponentFactory.java
*

/sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanConverter.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/factory/ComponentInstantiationException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Serviceable.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/repository/exception/ComponentLifecycleException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/annotations/ComponentImpl.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/repository/exception/ComponentRepositoryException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusBeanBinder.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusRequirements.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/converters/PlexusDateTypeConverter.java
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/sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/PlexusContainerLocator.java
* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/StoppingException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/ContainerConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/configuration/xml/XmlPlexusConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/configuration/PlexusConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Suspendable.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/Logger.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/factory/ComponentFactory.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/lifecycles/PlexusLifecycleManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanMetadata.java
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/sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanLocator.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/DefaultContainerConfiguration.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusXmlScanner.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBeanSource.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/OptionalPropertyBinding.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/configuration/PlexusConfigurationException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/AbstractLogger.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/ProvidedPropertyBinding.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/HintedPlexusBeans.java
*
/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/context/ContextMapAdapter.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/Roles.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusTypeBinder.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/locators/MissingPlexusBean.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Configurable.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusConstants.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/BaseLoggerManager.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/AbstractLoggerManager.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/Hints.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/console/ConsoleLoggerManager.java
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/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Initializable.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/config/PlexusBean.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/ComponentDescriptorBeanModule.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusContainer.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/logging/console/ConsoleLogger.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/component/repository/ComponentSetDescriptor.java
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* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/binders/PlexusBeanManager.java
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* /sisu-inject-plexus-2-3-0-sources-2-
jar/org/codehaus/plexus/component/repository/exception/ComponentLookupException.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/sonatype/guice/plexus/scanners/PlexusTypeListener.java
* /sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Startable.java
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* /sisu-inject-plexus-2-3-0-sources-2-
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jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluator.java
* /sisu-inject-plexus-2-3-0-sources-2-
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*
/sisu-inject-plexus-2-3-0-sources-2-jar/org/codehaus/plexus/PlexusTestCase.java
* /sisu-inject-plexus-2-3-0-sources-2-
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* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/artifact/DefaultArtifactType.java
* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/graph/PathRecordingDependencyVisitor.java
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* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/artifact/DelegatingArtifact.java
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* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/filter/DependencyFilterUtils.java
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* /aether-util-1-13-1-sources-2-jar/org/sonatype/aether/util/filter/NotDependencyFilter.java
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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1.360 libatomic 10.3.0

1.360.1 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>, 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-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	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++6-10-dbg	libstdc++6-10-pic
D	libphobos-10-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-10-base	Base files common to all compilers
gcc-10-soft-float	Software floating point (ARM only)
gcc-10-source	The sources with patches

Ada:

libgnat-util10-dev, libgnat-util10	GNAT version library

C:

cpp-10, cpp-10-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
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- libatomic
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Version 3.1, 31 March 2009

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libphobos-10-dev D standard runtime library

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1.361 go-isatty 0.0.16

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1.362 html5lib 1.1

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1.364 colorama 0.4.3

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1.366 python-certifi 2020.12.05

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1.367 x-time-rate 0.0.0-20220210224613-90d013bbcef8

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1.368 x-sys 0.0.0-20220825204002-c680a09ffe64

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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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lib/erl/src/Makefile.am

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```
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For the lib/nodejs/lib/thrift/json_parse.js:

```
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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Protocol Buffers for Go with Gadgets

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

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1.370 prometheus-client 1.12.2

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1.373 survey 2.3.6

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1.375 distlib 0.2.9.post0

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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==========

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==========

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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1.376 google-go-cmp 0.5.9

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1.377 apr-util 1.6.3

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 misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From test/CuTest.c, test/CuTest.h:

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The following was recevied Fenbruary 23,2000 From: "Linn, John" February 19, 2000

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1.378 golang-protobuf-extensions 1.0.2

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1.379 docker-go 1.5.1-1.0.20160303222718-d30aec9fd63c

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1.380 nasm 2.15.05

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1.381 x-net 0.0.0-20220906165146-f3363e06e74c

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1.382 rfkill 1.0

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1.383 open-ldap 2.5.12

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@end smallexample

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localtime.go, localtime_test.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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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.392 prometheus-client-model 0.2.0

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1.395 pam-ldap 184

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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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1.396 python3-iniparse 0.4

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==========

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_lib.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_cache.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/curve25519.h

*
/grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/dtls1.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_none.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/refcount_lock.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/ssl_aead_ctx.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bn_extra/bn_asn1.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/conf/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/err_data.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/refcount_c11.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/ssl_key_share.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/ssl_buffer.cc
*
/grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_win.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_pthread.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/util.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/buffer.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/srtp.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/dns_resolver_selection.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/xds/xds_resolver.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/sync.h
*
/grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/ssl_utils_config.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/executor/threadpool.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/work_serializer.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/global_config_custom.h

* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/global_config_env.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/executor/threadpool.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/slice/slice_utils.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_ev_driver_libuv.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/global_config.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/global_config_generic.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/executor/mpmcqueue.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/poller/eventmanager_libuv.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/ssl_utils_config.h
*
/grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/executor/mpmcqueue.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_idle/client_idle_filter.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_enable_cpp.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/work_serializer.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/global_config_env.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/oct.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/ec_key.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/ec.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/ec_key.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/simple.c
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* The elliptic curve binary polynomial software is originally written by
* Sheueling Chang Shantz and Douglas Stebila of Sun Microsystems
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Found in path(s):
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/ec_montgomery.c
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Found in path(s):
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_x509.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509cset.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_xaux.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/time_support.c
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* Defines ABSL_STACKTRACE_INL_HEADER to the *-inl.h containing
* actual unwinder implementation.
* This header is "private" to stacktrace.cc.
* DO NOT include it into any other files.
*/

Found in path(s):
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/internal/stacktrace_config.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/str_split.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/charconv.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/ostringstream.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/internal/common.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/internal/waiter.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/memutil.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/atomic_hook.h
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/flat_hash_map.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/status/statusor.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/string_view.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/algorithm/container.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/barrier.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/match.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/escaping.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/barrier.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/utility/utility.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/ascii.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/get_current_time_chrono.inc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/symbolize_darwin.inc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/str_format.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/internal/vdso_support.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/throw_delegate.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/str_replace.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/internal/stacktrace_win32-inl.inc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/types/bad_optional_access.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/internal/hashtablez_sampler.h
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 /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/direct_mmap.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/policy_checks.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/internal/graphcycles.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/fixed_array.h

* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/bits.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/internal/compressed_tuple.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/memory/memory.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/symbolize_win32.inc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/status/status.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/numeric/int128_no_intrinsic.inc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/internal/stacktrace_x86-inl.inc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/str_format/output.h
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 /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/resize_uninitialized.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/internal/graphcycles.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/time.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/internal/raw_hash_map.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/status/status_payload_printer.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/internal/hash_function_defaults.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/cycleclock.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/spinlock_wait.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/str_join_internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-
cpp/absl/container/internal/hashtablez_sampler_force_weak_definition.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/hash/internal/city.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/functional/internal/function_ref.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/utf8.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/internal/raw_hash_set.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/clock.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/thread_identity.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/low_level_alloc.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/inlined_vector.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/meta/type_traits.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/macros.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/substitute.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/tsan_mutex_interface.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/cycleclock.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/str_join.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/scheduling_mode.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/charconv_parse.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/options.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/charconv_bigint.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/charconv.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/dynamic_annotations.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/functional/function_ref.h
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/grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/duration.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/notification.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/char_map.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/internal/elf_mem_image.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/str_format/output.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/symbolize.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/internal/container_memory.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/container/internal/hashtablez_sampler.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/notification.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/sysinfo.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/functional/bind_front.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/numbers.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/blocking_counter.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/civil_time.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/sysinfo.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/dynamic_annotations.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/stacktrace.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/status/internal/statusor_internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/hash/internal/hash.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/str_split_internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/types/bad_variant_access.h

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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/unscaledcycleclock.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/internal/address_is_readable.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/status/status.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/raw_logging.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/hash/internal/hash.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/spinlock_win32.inc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/ascii.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/cord_internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/str_format/extension.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/internal/demangle.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/symbolize_unimplemented.inc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/charconv_bigint.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/errno_saver.h
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 /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/internal/stacktrace_arm-inl.inc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/exponential_biased.cc
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/grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/port.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/numeric/int128.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/escaping.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/per_thread_tls.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/status/statusor.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/strip.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/synchronization/internal/create_thread_identity.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/hide_ptr.h
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/grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/raw_logging.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/unscaledcycleclock.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/types/internal/span.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/str_split.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/debugging/symbolize.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/str_cat.cc
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* The DSS routines are based on patches supplied by
* Steven Schoch <schoch@sheba.arc.nasa.gov>. */

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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/dsa.h
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Found in path(s):
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/context_list.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_handshaker_client.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/buffer_list.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/load_system_roots_linux.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_shared_resource.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/tls/tls_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/ssl/session_cache/ssl_session_cache.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/ssl/session_cache/ssl_session_cache.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/load_system_roots_linux.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_seal_privacy_integrity_crypter.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_frame_protector.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/server_address.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/endpoint_cfstream.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/channelz.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/fake/fake_security_connector.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/xds/xds_client_stats.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/alts/alts_credentials.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/timer.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/alts/frame_protector/frame_handler.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/local/local_credentials.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/alts/alts_security_connector.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_server.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/local_subchannel_pool.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/tls/tls_credentials.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/alts/zero_copy_frame_protector/alts_iovec_record_protocol.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/support/thd_id.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_set_custom.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/fake/fake_security_connector.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/ext/xds/xds_client_stats.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment_windows.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/alts/frame_protector/alts_crypter.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/local/local_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_custom.cc
* /grpc-1-37-0-gem/data-tar-
gz/src/core/tsi/alts/zero_copy_frame_protector/alts_grpc_integrity_only_record_protocol.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr_internal.cc
* /grpc-1-37-0-gem/data-tar-
gz/src/core/tsi/alts/zero_copy_frame_protector/alts_grpc_integrity_only_record_protocol.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment_linux.cc

* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/alts/handshaker/alts_handshaker_client.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/xds/xds_client.cc
*
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*/

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* Copyright (C) 1995-2017 Mark Adler
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/* 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
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_bcons.c

* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_enum.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pkcs8/pkcs8_x509.c
*
/grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_trs.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/pkcs8.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pkcs8/pkcs8.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_akey.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_bitst.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pkcs8/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_akeya.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_extku.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_skey.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pkcs8/p5_pbev2.c
*
/grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_prn.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rand_extra/rand_extra.c
*
/grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/is_fips.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/ctrdrbg.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pkcs7/pkcs7_x509.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/err/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cipher_extra/e_aesgcmsiv.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/is_boringssl.h

* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/self_check/self_check.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/p_ed25519.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/delocate.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/p_ed25519_asn1.c
*
/grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pkcs7/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/span.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/aes/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bcm.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cipher_extra/e_aesctrhmac.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rand_extra/forkunsafe.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rand_extra/fuchsia.c
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/debug/stats_data.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/http2_settings.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/http2_settings.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/debug/stats_data.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/core/time_consts.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/compression_options_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/pb/duplicate/codegen_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/client_server_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/support/helpers.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/bin/noproto_client.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/generic/bidi_call.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/support/services.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/generic/interceptors.rb
*
 /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/generic/active_call.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/active_call_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/Makefile
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/structs.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/pb/grpc/health/v1/health_services_pb.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/generic/rpc_desc.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/bin/math_server.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/call_credentials_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/errors.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/generic/service.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/pb/generate_proto_ruby.sh
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/service_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/generic/interceptor_registry.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/pb/grpc/testing/duplicate/echo_duplicate_services_pb.rb
*
 /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/errors_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/pb/src/proto/grpc/testing/test_services_pb.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/server_interceptors_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/client_auth_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/rpc_desc_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/server_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/time_consts_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/bin/math_client.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/channel_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/pb/health/checker_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/client_interceptors_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/google_rpc_status_utils_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/user_agent_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/generic/rpc_server.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/extconf.rb
*

/grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/interceptor_registry_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/server_credentials_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/google_rpc_status_utils.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/logconfig.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/pb/grpc/health/checker.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/debug_message_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/spec_helper.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/bin/math_services_pb.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/error_sanity_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/client_stub_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/rpc_server_pool_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/grpc.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/core/status_codes.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/notifier.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/pb/grpc/testing/metrics_services_pb.rb
*
/grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/channel_credentials_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/generic/rpc_server_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/call_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/version.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/channel_connection_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/pb/codegen/package_option_spec.rb
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/lib/grpc/generic/client_stub.rb
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ecdh/ecdh.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/dsa/dsa_asn1.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rsa_extra/rsa_asn1.c
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* /grpc-1-37-0-gem/data-tar-gz/include/grpc/fork.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/ev_epoll1_linux.cc

* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/compression/stream_compression_gzip.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/status_util.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/gethostname_sysconf.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/validate_metadata.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/load_reporting.h
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/nameser.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/fork.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_utils_posix_ifaddrs.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/client_load_reporting_filter.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/arena.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_client_stats.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/lockfree_event.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/tsi/transport_security_grpc.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/proxy_mapper_registry.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr_custom.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_utils_posix_common.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/fork.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_utils_posix_noifaddrs.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/sys_epoll_wrapper.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/completion_queue_factory.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/arena.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/status_util.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/proxy_mapper.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/proxy_mapper_registry.cc
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/support/sync_custom.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/channelz_registry.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/backup_poller.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/orphanable.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/debug/stats.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/compression/stream_compression.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_client_stats.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/call_combiner.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/fork_windows.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/gethostname_fallback.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/compression/stream_compression_identity.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/fork_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/http/http_filters_plugin.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/inproc/inproc_transport.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/ev_epollex_linux.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/retry_throttle.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/atm.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/compression/stream_compression_gzip.cc
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/fork.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_server_utils_posix.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/compression/stream_compression_identity.cc

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/grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/gethostname.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/flow_control.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/socket_factory_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/client_load_reporting_filter.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/flow_control.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/ev_epoll1_linux.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/call_combiner.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/status_metadata.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/timer_custom.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/retry_throttle.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/channel_trace.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_channel_secure.cc
*
/grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/channel_trace.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/d1_srtp.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/fips_shared_support.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/siphash/siphash.c
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/ec_extra/ec_derive.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/p_x25519.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/aes/aes_nohw.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/siphash.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/trust_token/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/p_x25519_asn1.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/gcm_nohw.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/trust_token/trust_token.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_data.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_data.c
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/* 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):
* /grpc-1-37-0-gem/data-tar-gz/third_party/zlib/compress.c

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```
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```

Found in path(s):
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/socket_utils_uv.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/handshaker.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_set_custom.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_ev_driver_windows.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/error_utils.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper_windows.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/slice/percent_encoding.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/sockaddr_utils.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/slice/slice_internal.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/ssl/ssl_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_loader.c
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_loader.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/google_default/credentials_generic.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/polling_entity.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/grpc_if_nametoindex_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/manual_constructor.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/client/insecure/channel_create_posix.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/endpoint_pair_uv.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/bin_decoder.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/google_default/google_default_credentials.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_ev_driver.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/grpc_if_nametoindex_unsupported.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/channel_init.h

* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/channel_init.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/slice/slice_intern.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/resource_quota.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/plugin/plugin_credentials.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/gpr_types.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/iam/iam_credentials.cc
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 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/channel_stack_builder.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/bdp_estimator.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/resource_quota.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/wrap_memcpy.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/load_balancer_api.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/handshaker_registry.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/port.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/unix_sockets_posix_noop.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/pid_controller.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/string_util_windows.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_uv.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/http_connect_handshaker.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_grpc_imports.generated.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/slice/percent_encoding.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/grpc_posix.h
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_event_thread.c
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/grpc_cronet.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/plugin/plugin_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/fake/fake_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/error_utils.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/parse_address.cc
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/propagation_bits.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/server/chttp2_server.h
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 /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_event_thread.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/error.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/handshaker.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/endpoint_pair_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/lame_client.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/server/insecure/server_chttp2_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/ssl/ssl_credentials.h

* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/iam/iam_credentials.h
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 /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/http_proxy.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/plugin_registry/grpc_plugin_registry.cc
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/grpc_security_constants.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/channel_stack_type.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_ev_driver_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/mpscq.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/error_internal.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper_posix.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/bdp_estimator.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper_libuv.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/unix_sockets_posix.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/handshaker_registry.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/jwt/jwt_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_grpc_imports.generated.c
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/backoff/backoff.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/oauth2/oauth2_credentials.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/compression_types.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/timer_uv.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/validate_metadata.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/pid_controller.cc
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/gpr_slice.h
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/error.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/jwt/jwt_credentials.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/unix_sockets_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/grpclb/load_balancer_api.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/backoff/backoff.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/ev_poll_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/handshaker_factory.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/timer_generic.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/combiner.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/poly1305/poly1305_vec.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/bytestring.h
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/opensslv.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/objects.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/poly1305/poly1305.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/hkdf/hkdf.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/pkcs7.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bio/socket_helper.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/chacha.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/cbb.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/cbs.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/crypto.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/ber.c
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/rand.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/safestack.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/pkcs12.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rand_extra/windows.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/engine/engine.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-arm.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cipher_extra/e_chacha20poly1305.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pkcs7/pkcs7.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/opensslconf.h
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/rand.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/engine.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/urandom.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/hkdf.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/ossl_typ.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cipher_extra/e_tls.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/poly1305.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/cipher/aead.c
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* /grpc-1-37-0-gem/data-tar-gz/include/grpc/grpc.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/completion_queue.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/ev_poll_posix.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/sockaddr/sockaddr_resolver.cc
*
 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/composite/composite_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/completion_queue.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_all.c
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 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/tls_record.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_strerror.c
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_strcasecmp.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_strdup.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_fds.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_getenv.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_llist.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_query.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_create_query.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_strdup.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares__read_line.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_parse_ptr_reply.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_timeout.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_mkquery.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_send.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_parse_ns_reply.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares__close_sockets.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/cares/cares/ares_getenv.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/re2/filtered_re2.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/re2/prefilter_tree.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/util/util.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/util/logging.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_int.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/pcy_tree.c
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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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 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
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/ecdsa_extra/ecdsa_asn1.c
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* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
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*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/compression/algorithm_metadata.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/useful.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/slice/slice_string_helpers.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_rst_stream.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/sync_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/compression/compression_args.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/timer.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/metadata.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/socket_utils_linux.cc
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/grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/string_windows.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/http/httpcli.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/call.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/oauth2/oauth2_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/timer_heap.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/log_android.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_completion_queue.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/load_file.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/tmpfile_msys.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/util/json_util.cc

* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/hpack_parser.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/avl/avl.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/json/json.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/slice_buffer.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_set_windows.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/metadata_array.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_call_credentials.c
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/http/httpcli_security_connector.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_client.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/context/security_context.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/env.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/socket_windows.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/socket_utils_common_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/channel_ping.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/stream_map.cc
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* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/sync_generic.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/grpc_if_nametoindex.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/string_posix.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_goaway.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/tmpfile_windows.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/census/grpc_context.cc

* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/connected_channel.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/log_linux.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/env_posix.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/block_annotate.h
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* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_compression_options.c
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/endpoint_pair_windows.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/byte_stream.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/channel_stack_type.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/call.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/channel_stack.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/log_windows.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/socket_utils_posix.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/channel/channel_args.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/jwt/json_token.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/atm.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/time.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/client/chttp2_connector.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/uri/uri_parser.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_posix.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_goaway.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/pick_first/pick_first.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/call_test_only.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/dns_resolver_ares.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/varint.h
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/grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel_credentials.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr_internal.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/sync.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/util/json_util.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver_registry.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_window_update.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/chttp2_plugin.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/transport/security_handshaker.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/is_epollexclusive_available.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/http/server/http_server_filter.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel_args.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/security_connector.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_settings.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/varint.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/polling_entity.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/log_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/call_details.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/tls.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/json/json_writer.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_posix.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/native/dns_resolver.cc

* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/socket_mutator.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/round_robin/round_robin.cc
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 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/transport/tsi_error.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_data.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/byte_buffer_reader.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/closure.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/tcp_client_windows.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/time_averaged_stats.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/transport_op_string.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/load_file.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/client/chttp2_connector.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr_posix_cfstream.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_byte_buffer.c
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/transport/transport_impl.h

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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/thd.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/ev_epollex_linux.h
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* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/atm_gcc_atomic.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/pollset.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/wakeup_fd_posix.h
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 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/wakeup_fd_nospecial.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/stream_lists.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/surface/event_string.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/frame_settings.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/incoming_metadata.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/support/sync_posix.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/http/server/http_server_filter.h
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/support/atm_windows.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/time_precise.h
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_server.c
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/iocp_windows.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/udp_server.cc
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 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/executor.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/sockaddr.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr.cc
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/support/string_util.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/subchannel_list.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/transport/chttp2_transport.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/endpoint.cc
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* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/status.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/security_connector/security_connector.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/tls_pthread.cc
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 /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_channel_credentials.c
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/ext/grpc/rb_server_credentials.c

* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/transport/chttp2/server/chttp2_server.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_set_windows.cc
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// logging; as a special exception, the function may acquire other mutexes

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* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/util/mutex.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/sync_abseil.cc
* /grpc-1-37-0-gem/data-tar-gz/include/grpc/impl/codegen/sync_abseil.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/examine_stack.h
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 /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/ev_apple.cc
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gpr/tls_stdcpp.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/iomgr/ev_apple.h
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* [including the GNU Public Licence.] */

Found in path(s):
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bio/bio_mem.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_oth.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/hmac.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/obj/obj_xref.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cipher_extra/e_rc2.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/f_int.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/tls_method.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bn_extra/convert.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rsa/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/bio.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/evp_ctx.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/conf/conf.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/sha/sha256.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_octet.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/tasn_fre.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/bytes.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/a_sign.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/asn_pack.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_int.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_bool.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/a_verify.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_utf8.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_d2.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_info.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/obj/obj.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_spki.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cipher_extra/derive_key.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/by_file.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/i2d_pr.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bio/connect.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_vfy.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/f_string.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/sign.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/dh/check.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_att.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_i2d_fp.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509rset.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_v3.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/tasn_new.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/md4/md4.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/md5.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509name.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/des/des.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/sha.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_time.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_utctm.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_all.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_def.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/tasn_typ.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/conf.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/cmp.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_txt.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_pkey.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_strnid.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/md4.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_set.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/type_check.h
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 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/a_d2i_fp.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/digest_extra/digest_extra.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rc4/rc4.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/algorithm.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/evp.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_pubkey.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/stack/stack.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_req.c

* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bio/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rsa/rsa_impl.c
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/internal.h
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/re2/nfa.cc
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):
* /grpc-1-37-0-gem/data-tar-gz/third_party/zlib/zutil.c
No license file was found, but licenses were detected in source scan.

/*
* Original file name getopt.c Initial import into the c-ares source tree
* on 2007-04-11. Lifted from version 5.2 of the 'Open Mash' project with
* the modified BSD license, BSD license without the advertising clause.
*
*/
/*
* getopt.c --
*
*   Standard UNIX getopt function. Code is from BSD.
*
* Copyright (c) 1987-2001 The Regents of the University of California.
* All rights reserved.
*
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* You can contact the author at:
*   - xxHash homepage: https://www.xxhash.com
*   - xxHash source repository: https://github.com/Cyan4973/xxHash
*/
/*!
* @brief Calculates a 64->128-bit long multiply.
*
* Uses `__uint128_t` and `_umul128` if available, otherwise uses a scalar
* version.
*
* @param lhs, rhs The 64-bit integers to be multiplied
* @return The 128-bit result represented in an @ref XXH128_hash_t.
 */
```

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/grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/tls13_both.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-ppc64le.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/obj_mac.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/pool.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/curve25519/spake25519.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-arm-linux.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/tls13_server.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/polyval.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/asn1_compat.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/time_zone_impl.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/time_zone_format.cc
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*
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/time_zone_libc.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/include/cctz/time_zone.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/time_zone_libc.h
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/civil_time_detail.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/include/cctz/zone_info_source.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/abseil-cpp/absl/time/internal/cctz/src/time_zone_if.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/handoff.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/unicode.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/tls/internal.h
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/md5/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/simple_mul.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/hrss.h
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/security/credentials/external/aws_external_account_credentials.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/pb/codegen/grpc/testing/package_options_import2.proto
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/xds/xds_resolver.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/workarounds/workaround_utils.cc
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* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/service_config_parser.cc
* /grpc-1-37-0-gem/data-tar-gz/src/ruby/spec/pb/codegen/grpc/testing/same_package_service_name.proto
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* /grpc-1-37-0-gem/data-tar-gz/src/core/lib/gprpp/dual_ref_counted.h
* /grpc-1-37-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/dns_resolver_selection.cc
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 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/err.h
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/* gzwrite.c -- zlib functions for writing gzip files
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*/

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*
 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/p256_table.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rand_extra/passive.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/trust_token/voprf.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/trust_token.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/p256.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/fork_detect.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/ec_extra/hash_to_curve.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/dsa/internal.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/curve25519/curve25519_tables.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/hpke/internal.h
*
 /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/fork_detect.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/getrandom_fillin.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/hpke/hpke.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/trust_token/pmbtoken.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/p_ec.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/p_rsa.c
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* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/re2/simplify.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/re2/sparse_array.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/re2/regexp.cc
* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/re2/regexp.h
* /grpc-1-37-0-gem/data-tar-gz/third_party/re2/re2/tostring.cc
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* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/gcm.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/ofb.c
*
/grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/cfb.c
* /grpc-1-37-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/cbc.c
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
```

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

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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     file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.403 protobuf 3.15.2

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1.404 apr 1.7.2

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 misc/unix/getopt.c,
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.406 setserial 2.17

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1.408 grub2 2.04

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1.411 quota 4.06

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1.426 libnsl 2.33

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Julian Seward, jseward@bzip.org
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DRuntime: Runtime Library for the D Programming Language
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   port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,
   Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update
and complete
   broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault
   <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)

13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Philippe De Muyter <phdm@macqel.be> Wharton reference clock driver, sysV68 and AIX modifications.
16. [17]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
18. [19]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
19. [20]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
20. [21]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
21. [22]Dave Hart <davehart@gmail.com> General maintenance, IPv6 cleanup, Windows PPSAPI
22. [23]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
23. [24]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
24. [25]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
25. [26]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
26. [27]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
27. [28]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [29]<H.Lambermont@chello.nl> ntpsweep
28. [30]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
29. [31]Frank Kardel [32]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
30. [33]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
31. [34]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
32. [35]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
33. [36]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
34. [37]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
35. [38]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
36. [39]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
37. [40]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
38. [41]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
39. [42]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
40. [43]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
41. [44]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
42. [45]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

43. [46]Derek
Mulcahy <derek@toybox.demon.co.uk> and [47]Damon
Hart-Davis <d@hd.org> ARCRON MSF clock driver
44. [48]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code
maintenance
45. [49]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling
46. [50]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
47. [51]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
48. [52]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
49. [53]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
space on the stuff in the html/pic/ subdirectory
50. [54]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
51. [55]Michael Shields <shields@tembel.org> USNO clock driver
52. [56]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
53. [57]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
54. [58]Kenneth
Stone <ken@sdd.hp.com> HP-UX port
55. [59]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
56. [60]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
57. [61]Brian Utterback <brian.utterback@oracle.com> General codebase,
Solaris issues
58. [62]Loganaden Velvindron <loganaden@gmail.com> Sandboxing
(libseccomp) support
59. [63]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
TrueTime clock driver
60. [64]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
validated HTML documents according to the HTML DTD

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1.428 go-toml 1.9.4

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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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1.432 grpc-gateway 1.16.0

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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

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

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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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1.437 tcpdump 4.99.0

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1.439 python 2.7.18

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

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

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

All
Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

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d) If a facility in the modified
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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1.442 c-ares 1.16.1

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

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

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

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

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1. Source Code.

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

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

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally
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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

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

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
```

```
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
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FAQ:
====

The
questions and answers below try to summarize the intentions behind this
licensing scheme.

Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL
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A: Yes, that's exactly the point of open source. Works derived from the
plugins will have to use the GPL license, but you can choose to use LGPL for
them as well.

Q: Do I need to sign a Contributory License Agreement in order for my
contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to
have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

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Is it just
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1.448 perl 5.32.1

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1.449 file 5.39

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1.452 xmlsec 1.2.31

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* Cordys R&D BV
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* Cryptocom LTD
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1.453 e2fsprogs 1.46.1

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		

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1.458 nfs-utils 2.5.3

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1.459 qemu 5.2.0

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```
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*  FreeBSD strace list
*
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*/

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op,
 "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL,
 NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file,
 "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL,
 NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
 "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid,
 "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen,
 "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\",%p)", NULL, NULL },
```

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{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
 },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil,
 "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk,
```

```
 "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid,
 "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
 "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
 %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
 NULL, NULL },
bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))
```

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TARGET_ARCH=sparc64
TARGET_BASE_ARCH=sparc
TARGET_ALIGNED_ONLY=y
TARGET_WORDS_BIGENDIAN=y

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Key Dates

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* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
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Version 1.0 covers source code files. Version 1.1 is a
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==========

= Code Contributions =

==========

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to
use in the source control commit log.

2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.

3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.

4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

```
From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached
```

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
line following [Repository/Branch PATCH]. The remaining portion of the
commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
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Contributions.txt: TianoCore Contribution Agreement 1.0

======================
= Code Contributions =
======================

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in

this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
for the project.
5. It is preferred that contributions are submitted using the same
copyright license as the base project. When that is not possible,
then contributions using the following licenses can be accepted:
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be
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Contributions using other licenses might be accepted, but further
review will be required.

```
================================================
= Change Description / Commit Message / Patch Email =
================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached
```

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the
contributor's signature identifying them
  by their real/legal name and their email address.

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John R. Hauser
2018 January 20

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1.460 pam 1.5.1

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1.461 docker 20.10.17

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/docker-20-10-17-tgz/docker/docker: binary file matches
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* /bin/grep

1.462 libpipeline 1.5.3

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1.464 xfsprogs 5.10.0

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This package was debianized by Nathan Scott nathans@debian.org on
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1.465 libflac 1.3.3

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.469 libsdl 2.0.14

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October 28, 1997
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Sam Lantinga (slouken@libsdl.org)

1.470 fuse 3.10.3

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in new free programs; and that you know you can do these things.

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

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

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

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

concluded that weaker conditions might promote sharing better.

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

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

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the
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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.

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

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

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

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

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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

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Appendix: How to Apply These Terms to Your New Libraries

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

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* in build/ac-macros/ax_boost_unit_test_framework.m4:

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1.474 memcached 1.6.6

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

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

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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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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
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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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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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The precise terms and conditions for copying, distribution and modification
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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

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#
builds/unix/pkg.m4
#
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docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
```

src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
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1.480 htmldoc 1.9.8

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1.481 rsync 3.2.7

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1.482 pcre 8.44

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1.483 python-pip 21.2.4

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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

Thanks to the many outside volunteers who have worked under Guido's
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1.484 libjitterentropy 3.4.1

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1.486 libtasn 4.17.0

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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1.489 tornado 6.1

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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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machine-readable source code, which
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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
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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

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

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

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rather than copying library functions into the executable, and (2) will operate
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.494 python-certifi 2020.12.5

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It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.495 init-system-helpers 1.60

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1.496 rpm 4.16.1.3

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1.497 net-snmp 5.8.0

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1.500 gawk 5.1.0

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

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

derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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"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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This option is useful when you wish to copy part of the code of

the
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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
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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
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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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

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

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

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1. Source Code.

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

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

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

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1.502 btrfs-progs 5.10.1

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OpenCORE Adaptive Multi Rate (AMR) speech codec library implementation.

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3GPP TS 26.173 specification for the Adaptive Multi-Rate - Wideband (AMR-WB) speech decoder. The implementation is derived from the OpenCORE framework, part of the Google Android project.

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Version 3.0, 18 August 2009
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// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (
 gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
 ctrl     *gomock.Controller
 recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
 mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
 mock := &MockEmpty{ctrl: ctrl}
 mock.recorder = &MockEmptyMockRecorder{mock}
 return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
```

```
{
return m.recorder
}
```

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Protocol Buffers for Go with Gadgets

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

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package empty_interface

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header

type Empty interface{}
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Jonathan Rudenberg <jonathan@flynn.io> (github: titanous)
import: ../../../../fossene/db/schema/thing.yml
fields:
site: string
author: root
procfs provides functions to retrieve system, kernel and process
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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:

* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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1.513 efitools 1.9.2

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1.514 python3-asn1crypto 1.4.0

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1.517 mime-pull 1.8.0

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1.530 pyinotify 0.9.6

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1.531 mergo 0.3.13

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

1.532 nvme-cli 1.13

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1.533 python3-ndg-httpsclient 0.5.1

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1.534 python3-ptyprocess 0.7.0

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1.535 python3-pysocks 1.7.1

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1.536 python3-pyserial 3.5

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1.537 python3-pexpect 4.8.0

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1.538 python-ply 3.11

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1.539 linux-kernel 5.10.200

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*

```
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
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* M. Welsh, 6 July 1996
*
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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this
License.
Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables
containing that work also fall under Section 6,
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user

installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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components (compiler, kernel, and so on) of the operating system on
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1.541 expect 5.45.4

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Written by: Don Libes, libes at nist.gov, NIST

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1.542 libunwind 1.8.1

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1.543 vim 9.0.2068

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1.546 msmtp 1.8.20

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1.547 python3-constantly 15.1.0

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1.548 freeradius-client 1.1.5

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Upstream Author(s): Lars Fenneberg <lf@elemental.net>

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1.549 python3-pycrypto 2.6.1

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~~~~~~

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Last updated: 2009-02-28

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=== EOF ===

1.550 tomcat-connectors 1.2.40

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```
PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5'
 '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
```

```
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +

  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
       'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
```

```
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +

  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF)
 +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
```

```
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_sockbuf.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
```

```
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common'
 '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520'
 +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
```

```
        'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
          MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
          MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
          MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
          MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
          MOD_JK/JK_LB_WORK +
          MOD_JK/JK_MAP MOD_JK/JK_MD5
 +
          MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
          MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
          MOD_JK/JK_URL +
          MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
          MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
            QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
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```

```
!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.\Release20
INTDIR=.\Release20
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.\Release24
INTDIR=.\Release24
!ELSE
!IFDEF
 APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.\Release22
INTDIR=.\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
APU_LIB=libaprutil-1.lib
!ENDIF
!IFNDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
!ENDIF

TARGET=mod_jk$(SO_VERSION)$(SO_HTTPD_VERSION)
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$(OUTDIR)\$(TARGET).so"


CLEAN :
 -@erase "$(INTDIR)\jk.res"
 -@erase "$(INTDIR)\jk_ajp12_worker.obj"
 -@erase "$(INTDIR)\jk_ajp13.obj"
 -@erase "$(INTDIR)\jk_ajp13_worker.obj"
 -@erase "$(INTDIR)\jk_ajp14.obj"
 -@erase "$(INTDIR)\jk_ajp14_worker.obj"
 -@erase "$(INTDIR)\jk_ajp_common.obj"
 -@erase "$(INTDIR)\jk_connect.obj"
 -@erase "$(INTDIR)\jk_context.obj"
 -@erase "$(INTDIR)\jk_lb_worker.obj"
 -@erase "$(INTDIR)\jk_map.obj"
```

```
 -@erase "$(INTDIR)\jk_md5.obj"
 -@erase "$(INTDIR)\jk_msg_buff.obj"
 -@erase "$(INTDIR)\jk_pool.obj"
 -@erase "$(INTDIR)\jk_shm.obj"
 -@erase "$(INTDIR)\jk_sockbuf.obj"
 -@erase "$(INTDIR)\jk_status.obj"
 -@erase "$(INTDIR)\jk_uri_worker_map.obj"
 -@erase
 "$(INTDIR)\jk_url.obj"
 -@erase "$(INTDIR)\jk_util.obj"
 -@erase "$(INTDIR)\jk_worker.obj"
 -@erase "$(INTDIR)\mod_jk.obj"
 -@erase "$(INTDIR)\mod_jk_src.idb"
 -@erase "$(INTDIR)\mod_jk_src.pdb"
 -@erase "$(OUTDIR)\mod_jk.exp"
 -@erase "$(OUTDIR)\mod_jk.lib"
 -@erase "$(OUTDIR)\$(TARGET).pdb"
 -@erase "$(OUTDIR)\$(TARGET).so"

"$(OUTDIR)" :
   if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"

BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\$(TARGET).bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$(OUTDIR)\$(TARGET).pdb" /debug /machine:$(ARCH) /out:"$(OUTDIR)\$(TARGET).so"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS= \
 "$(INTDIR)\jk_ajp12_worker.obj" \
 "$(INTDIR)\jk_ajp13.obj" \
 "$(INTDIR)\jk_ajp13_worker.obj" \
 "$(INTDIR)\jk_ajp14.obj"
 \
 "$(INTDIR)\jk_ajp14_worker.obj" \
 "$(INTDIR)\jk_ajp_common.obj" \
 "$(INTDIR)\jk_connect.obj" \
 "$(INTDIR)\jk_context.obj" \
 "$(INTDIR)\jk_lb_worker.obj" \
 "$(INTDIR)\jk_map.obj" \
 "$(INTDIR)\jk_md5.obj" \
 "$(INTDIR)\jk_msg_buff.obj" \
 "$(INTDIR)\jk_pool.obj" \
 "$(INTDIR)\jk_shm.obj" \
 "$(INTDIR)\jk_sockbuf.obj" \
```

```
 "$(INTDIR)\jk_status.obj" \
 "$(INTDIR)\jk_uri_worker_map.obj" \
 "$(INTDIR)\jk_url.obj" \
 "$(INTDIR)\jk_util.obj" \
 "$(INTDIR)\jk_worker.obj" \
 "$(INTDIR)\jk.res" \
 "$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
   $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
 @IF EXIST $(OUTDIR)\$(TARGET).manifest \
  mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2


CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$(APACHE2_HOME)\include" /D
"NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
   $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<
```

```
MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=/l 0x409 /fo"$(INTDIR)\jk.res" /i "..\common" /d BASENAME="mod_jk" /d "NDEBUG"

SOURCE=..\common\jk.rc

"$(INTDIR)\jk.res" : $(SOURCE) "$(INTDIR)"
 $(RSC) $(RSC_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp12_worker.c

"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13.c

"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13_worker.c

"$(INTDIR)\jk_ajp13_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14.c

"$(INTDIR)\jk_ajp14.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP)
 $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp_common.c

"$(INTDIR)\jk_ajp_common.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_connect.c
```

```
"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_context.c

"$(INTDIR)\jk_context.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_lb_worker.c

"$(INTDIR)\jk_lb_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_map.c

"$(INTDIR)\jk_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_md5.c

"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_msg_buff.c

"$(INTDIR)\jk_msg_buff.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_pool.c

"$(INTDIR)\jk_pool.obj"
 : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_shm.c

"$(INTDIR)\jk_shm.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)
```

SOURCE=..\common\jk_sockbuf.c

"$(INTDIR)\jk_sockbuf.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_status.c

"$(INTDIR)\jk_status.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_uri_worker_map.c

"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_url.c

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_worker.c

"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\mod_jk.c

"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)
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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
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#

#
NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
created by Guenter Knauf <fuankg@apache.org>
#

#
Declare the sub-directories to be built here
#

```
SUBDIRS = \
 $(EOLIST)

#
# Get the
 'head' of the build environment.  This includes default targets and
# paths to tools
#

include $(AP_WORK)/build/NWGNUhead.inc

#
# build this level's files

#
# Make sure all needed macro's are defined
#

JKCOMMON = ../common

#
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS += \
   $(JKCOMMON) \
   $(APR)/include \
   $(APRUTIL)/include \
   $(AP_WORK)/include \
   $(NWOS) \
   $(EOLIST)

#
# These flags will come after CFLAGS
#
XCFLAGS  += \
   $(EOLIST)

#
# These defines will come after DEFINES
#
XDEFINES += \
   -D__NOVELL_LIBC__ \
   -D_POSIX_SOURCE \
   $(EOLIST)

#
# These flags will be added to the link.opt file
```

```
#
XLFLAGS  += \
  $(EOLIST)

#
# These values will be appended to the correct variables based on the value of
# RELEASE
#
ifeq "$(RELEASE)" "debug"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "noopt"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  +=
 \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
```

```
  $(EOLIST)
endif

#
# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm.  If left blank
# TARGET_nlm (see below) will be used.
#
NLM_NAME = mod_jk

#
# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
#
NLM_DESCRIPTION = Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

#
# This is used by the link '-copy ' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT =

#
# This is used by the '-threadname' directive.  If left blank,
# NLM_NAME Thread will be used.
#
NLM_THREAD_NAME = JK Module

#
# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
#
NLM_VERSION = $(JK_VERSION)

#
#
 If this is specified, it will override the default of 64K
#
NLM_STACK_SIZE = 49152


#
# If this is specified it will be used by the link '-entry' directive
#
NLM_ENTRY_SYM = _LibCPrelude

#
# If this is specified it will be used by the link '-exit' directive
```

```
#
NLM_EXIT_SYM = _LibCPostlude

#
# If this is specified it will be used by the link '-check' directive
#
NLM_CHECK_SYM =

#
# If these are specified it will be used by the link '-flags' directive
#
NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

#
# If this is specified it will be linked in with the XDCData option in the def
# file instead of the default of $(NWOS)/apache.xdc.  XDCData can be disabled
# by setting APACHE_UNIPROC in the environment
#
XDCDATA  =

#
# If there is an NLM target, put it here
#
TARGET_nlm = \
 $(OBJDIR)/$(NLM_NAME).nlm \
 $(EOLIST)

#
# If there is an LIB target, put it here
#
TARGET_lib = \
 $(EOLIST)

#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the
 '/' character
#
FILES_nlm_objs = \
 $(OBJDIR)/jk_nwmain.o \
 $(OBJDIR)/jk_ajp12_worker.o \
 $(OBJDIR)/jk_ajp13.o \
 $(OBJDIR)/jk_ajp13_worker.o \
 $(OBJDIR)/jk_ajp14.o \
 $(OBJDIR)/jk_ajp14_worker.o \
 $(OBJDIR)/jk_ajp_common.o \
 $(OBJDIR)/jk_connect.o \
 $(OBJDIR)/jk_context.o \
```

```
 $(OBJDIR)/jk_lb_worker.o \
 $(OBJDIR)/jk_map.o \
 $(OBJDIR)/jk_md5.o \
 $(OBJDIR)/jk_msg_buff.o \
 $(OBJDIR)/jk_pool.o \
 $(OBJDIR)/jk_shm.o \
 $(OBJDIR)/jk_sockbuf.o \
 $(OBJDIR)/jk_status.o \
 $(OBJDIR)/jk_uri_worker_map.o \
 $(OBJDIR)/jk_url.o \
 $(OBJDIR)/jk_util.o \
 $(OBJDIR)/jk_worker.o \
 $(OBJDIR)/mod_jk.o \
 $(EOLIST)

#
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
 $(NOVELLLIBC)/imports/libcpre.o \
 $(EOLIST)

#
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
 aprlib \
 libc \
 $(EOLIST)

#
#
 If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
# If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
# If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =
```

```
#
# Any additional imports go here
#
FILES_nlm_Ximports = \
 @aprlib.imp \
 @httpd.imp \
 @libc.imp \
 @ws2nlm.imp \
 $(EOLIST)

#
# Any symbols exported to here
#
FILES_nlm_exports = \
 jk_module \
 $(EOLIST)

#
# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
FILES_lib_objs = \
 $(EOLIST)

#
# implement targets and dependancies (leave this section alone)
#

libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

#
# Updated this target to create necessary directories and copy files to the
# correct place.  (See $(AP_WORK)\build\NWGNUhead.inc for examples)
#
install :: nlms FORCE
 copy $(OBJDIR)\*.nlm $(INSTALL)\Apache2\modules\*.*

#
# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc:
 $(JKCOMMON)/jk_version.h $(OBJDIR)
 @echo Creating $@
```

```
 @awk -f ../../support/get_ver.awk $< > $@


#
# Include the version info retrieved from jk_version.h
#

-include $(OBJDIR)/version.inc

#
# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#

include $(AP_WORK)/build/NWGNUtail.inc
```

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```
PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
```

```
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c')
 +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5'
 '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
```

```
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF)
 +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT' +
       'USE_SO_RCVTIMEO' + 'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
```

```
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED)
 +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD
 MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
        '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
```

```
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_sockbuf.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT')
 +
  TEXT('jk_uri_worker_map.c') +
```

```
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +

  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common'
 '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
         MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
         MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
         MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
         MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
         MOD_JK/JK_LB_WORK +
         MOD_JK/JK_MAP MOD_JK/JK_MD5 +
         MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
         MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
         MOD_JK/JK_URL +
         MOD_JK/JK_UTIL MOD_JK/JK_WORKER +

   MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
```

QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
TEXT('Apache Tomcat mod_jk connector module')

ENDPGM

1.551 watchdog-config 1.0

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1.552 python3-meld3 2.0.1

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Contributors

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- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27

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1.553 python3-cloghandler 0.9.1

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1.554 python3-async 0.6.2

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1.555 gtest-tap 0.6

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Oliver Merkel <merkel.oliver@web.de>

1.556 mailx 12.5-5

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* Part No: 816-1331-11
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* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
UCSD
R. Canetti
IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Code
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SINGULAR version 3-0-0

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SINGULAR version 3-0-0

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== CVS—Concurrent Versions System v4.2 ==

Next: [[cvs: Overview#Overview|Overview]], Up: [../dir/index.#Top (dir)] |[[cvs: Index#SEC_Contents|Contents]]||[[cvs: Index#Index|Index]]|

This info manual describes how to use and administer
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[[cvs: Overview#Overview|• Overview]]:: An introduction to CVS
[[cvs: The Repository#The Repository|• Repository]]:: Where all your sources are stored
[[cvs: Starting a project with CVS#Starting a project with CVS|• Starting a new project]]:: Starting a project with CVS
[[cvs: Revisions#Revisions|• Revisions]]:: Numeric and symbolic names for revisions
[[cvs: Branching and merging#Branching and merging|• Branching and merging]]:: Diverging/rejoining branches of development
[[cvs: Recursive behavior#Recursive behavior|• Recursive behavior]]:: CVS descends directories
[[cvs: Adding, removing, and renaming files and directories#Adding, removing, and renaming files and directories|• Adding and removing]]:: Adding/removing/renaming files/directories
[[cvs: History browsing#History browsing|• History browsing]]:: Viewing the history of files in various ways

CVS and the Real World.

[[cvs: Handling binary files#Handling binary files|• Binary files]]:: CVS can handle binary files
[[cvs: Multiple developers#Multiple developers|• Multiple developers]]:: How CVS helps a group of developers
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[[cvs: Tracking third-party sources#Tracking third-party sources|• Tracking sources]]:: Tracking third-party sources
[[cvs: How your build system interacts with CVS#How your build system interacts with CVS|• Builds]]::

Issues related to CVS and builds
[[cvs: Special Files#Special Files|• Special Files]]:: Devices, links and other non-regular files

References.

[[cvs: Guide to CVS commands#Guide to CVS commands|• CVS commands]]:: CVS commands share some things
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be combined with the library in order
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includes this when writing plain text (`--no-headers'), along with
an @insertcopying.

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and @sp commands.
*
title subtitle author:: The @title, @subtitle,
and @author commands.
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* headings on off:: An option for turning headings on and off
and double or single sided printing.
@comment -*-texinfo-*-
@comment Id: COPYING.texi,v 1.1 2003/08/08 14:27:06 pertusus Exp $

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@include version.texi
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@item
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@uref{http://www.cygwin.com/}
@item Xemacs
@uref{http://www.xemacs.org}
@end table
@end ifset

@heading Acknowledgements

The development of @sc{Singular} is directed and coordinated by
Gert-Martin Greuel, Gerhard Pfister, and Hans
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to the @sc{Singular} project.
\input texinfo @c -*-texinfo-*-

@node Top

texte

@insertcopying
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 And a second one (?)

File: copying_not_closed.info, Node: Top, Up: (dir)

texte

Tag Table:
Node: Top151

End Tag Table

1.561 chrpath 0.16

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1.563 rtl8723bs-bt git

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```
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```
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*
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* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hci_ldisc.c
* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hci_h4.c
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/**
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*

*Module Name:
*   hciattach_rtk.c
*
*Description:
*   H4/H5 specific initialization
*
*Revision History:
*   Date   Version   Author   Comment
*   ----------   ---------   ---------------   ----------------------
*   2013-06-06   1.0.0   gordon_yang   Create
*   2013-06-18   1.0.1   lory_xu   add support for multi fw
*   2013-06-21   1.0.2   gordon_yang   add timeout for get version cmd
*   2013-07-01   1.0.3   lory_xu   close file handle
*   2013-07-01   2.0   champion_chen   add IC check
*   2013-12-16   2.1   champion_chen   fix bug in Additional packet number
*   2013-12-25   2.2   champion_chen   open host flow control after send last fw packet
*/

Found
 in path(s):
* /rtl8723bs-bt-git-r0-tar-gz/tmp96e0k94g/git/hciattach_rtk.c

1.564 fbset-modes 0.1.0

1.564.1 Available under license :

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*
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```

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```

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```
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*  distribution for more details.
*
*  Petr Vandrovec <vandrove@vc.cvut.cz>:
*          -grayscale, -rgba, -nonstd, VGA modes reporting
*
*  Brad Midgley <brad@exodus.pht.com>:
*          -match
*
*/
```

Found in path(s):
* /fbset-2-1-orig-tar-gz/fbset-2.1/fbset.c

1.565 lib32-bin86 0.16.15

1.565.1 Available under license :

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1.571 ragel 6.10

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// blah blah here could be a license text
// lorem ipsum dolor sit amet

local a = import 'a.jsonnet';
local b = import 'b.jsonnet';
true
MD5
Converted to C++ class by Frank Thilo (thilo@unix-ag.org)
for bzflag (http://www.bzflag.org)

based on:

md5.h and md5.c
reference implementation of RFC 1321

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```
// blah blah here could be a license text
// lorem ipsum dolor sit amet

local b = import 'b.jsonnet';
local a = import 'a.jsonnet';
true
```

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Julian Seward, jseward@bzip.org
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DRuntime: Runtime Library for the D Programming Language
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1.577 util-linux-libuuid 2.38

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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Version 3, 29 June 2007

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1.579 gdbm 1.19

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1.580 shadow 4.8.1

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1.581 icu 68.2

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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 =

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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can be directly used with curl / libcurl / php_curl, or with
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1.585 python3-markupsafe 1.1.1

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1.593 kerberos 1.17.2

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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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1.594 python3-gitdb 4.0.5

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1.596 python3-supervisor 4.2.1

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man3/CIRCLEQ_HEAD.3 man3/CIRCLEQ_HEAD_INITIALIZER.3
man3/CIRCLEQ_INIT.3 man3/CIRCLEQ_INSERT_AFTER.3
man3/CIRCLEQ_INSERT_BEFORE.3 man3/CIRCLEQ_INSERT_HEAD.3
man3/CIRCLEQ_INSERT_TAIL.3 man3/CIRCLEQ_LAST.3
man3/CIRCLEQ_LOOP_NEXT.3 man3/CIRCLEQ_LOOP_PREV.3 man3/CIRCLEQ_NEXT.3
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man3/LIST_ENTRY.3 man3/LIST_FIRST.3 man3/LIST_FOREACH.3
man3/LIST_HEAD.3 man3/LIST_HEAD_INITIALIZER.3 man3/LIST_INIT.3
man3/LIST_INSERT_AFTER.3 man3/LIST_INSERT_BEFORE.3
man3/LIST_INSERT_HEAD.3 man3/LIST_NEXT.3 man3/LIST_REMOVE.3
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man3/SLIST_FOREACH.3 man3/SLIST_HEAD.3 man3/SLIST_HEAD_INITIALIZER.3
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man3/SLIST_NEXT.3 man3/SLIST_REMOVE.3 man3/SLIST_REMOVE_HEAD.3
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man3/STAILQ_ENTRY.3
man3/STAILQ_FIRST.3 man3/STAILQ_FOREACH.3 man3/STAILQ_HEAD.3
man3/STAILQ_HEAD_INITIALIZER.3 man3/STAILQ_INIT.3
man3/STAILQ_INSERT_AFTER.3 man3/STAILQ_INSERT_HEAD.3
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man3/TAILQ_NEXT.3 man3/TAILQ_PREV.3 man3/TAILQ_REMOVE.3
man3/TAILQ_SWAP.3 man3/circleq.3 man3/forkpty.3 man3/getloadavg.3
man3/list.3 man3/login_tty.3 man3/openpty.3 man3/queue.3 man3/slist.3
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man2/getsockname.2 man2/getsockopt.2 man2/ioctl.2 man2/listen.2
man2/lseek.2 man2/readlink.2 man2/readlinkat.2 man2/recv.2
man2/recvfrom.2 man2/recvmsg.2 man2/send.2 man2/sendmsg.2
man2/sendto.2 man2/setpgid.2 man2/setpgrp.2 man2/setpriority.2

man2/setregid.2 man2/setregid32.2 man2/setreuid.2 man2/setreuid32.2
man2/setsockopt.2 man2/shutdown.2 man2/socket.2 man2/socketpair.2
man2/syscall.2 man2/truncate.2 man2/truncate64.2 man3/alloca.3
man3/auth_destroy.3 man3/authnone_create.3 man3/authunix_create.3
man3/authunix_create_default.3 man3/btree.3 man3/callrpc.3
man3/clearerr.3 man3/clnt_broadcast.3 man3/clnt_call.3
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man3/clnttcp_create.3 man3/clntudp_bufcreate.3 man3/clntudp_create.3
man3/daemon.3 man3/db.3 man3/dbopen.3 man3/endrpcent.3 man3/err.3
man3/errx.3 man3/exec.3 man3/execl.3 man3/execle.3 man3/execlp.3
man3/execv.3 man3/execvp.3 man3/execvpe.3 man3/fclose.3 man3/fdopen.3
man3/feof.3 man3/ferror.3 man3/fflush.3 man3/fgetpos.3 man3/fileno.3
man3/fopen.3 man3/fread.3 man3/freopen.3 man3/fscanf.3 man3/fseek.3
man3/fsetpos.3 man3/ftell.3 man3/fts.3 man3/fts_children.3
man3/fts_close.3 man3/fts_open.3 man3/fts_read.3 man3/fts_set.3

man3/fwrite.3 man3/get_myaddress.3 man3/getrpcbyname.3
man3/getrpcbynumber.3 man3/getrpcent.3 man3/getrpcport.3 man3/hash.3
man3/iruserok.3 man3/iruserok_af.3 man3/killpg.3 man3/mpool.3
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man2/sched_rr_get_interval.2 man2/sched_setaffinity.2
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man3/ctanhf.3 man3/ctanhl.3 man3/ctanl.3 man3/des_crypt.3
man3/des_setparity.3 man3/dlclose.3 man3/dlerror.3 man3/dlmopen.3

man3/dlopen.3 man3/dlsym.3 man3/dlvsym.3 man3/dprintf.3
man3/ecb_crypt.3 man3/encrypt.3 man3/encrypt_r.3 man3/endaliasent.3
man3/endnetgrent.3 man3/endspent.3 man3/endttyent.3 man3/endutent.3
man3/endutxent.3 man3/envz.3 man3/envz_add.3 man3/envz_entry.3
man3/envz_get.3 man3/envz_merge.3 man3/envz_remove.3
man3/envz_strip.3 man3/errno.3 man3/eventfd_read.3
man3/eventfd_write.3 man3/fdim.3 man3/fdimf.3 man3/fdiml.3
man3/feclearexcept.3 man3/fedisableexcept.3 man3/feenableexcept.3
man3/fegetenv.3 man3/fegetexcept.3 man3/fegetexceptflag.3
man3/fegetround.3 man3/feholdexcept.3 man3/fenv.3
man3/feraiseexcept.3 man3/fesetenv.3 man3/fesetexceptflag.3
man3/fesetround.3
man3/fetestexcept.3 man3/feupdateenv.3
man3/fgetgrent_r.3 man3/fgetpwent_r.3 man3/fgetspent.3
man3/fgetspent_r.3 man3/fgetwc.3 man3/fgetws.3 man3/fma.3 man3/fmaf.3
man3/fmal.3 man3/fmax.3 man3/fmaxf.3 man3/fmaxl.3 man3/fmemopen.3
man3/fmin.3 man3/fminf.3 man3/fminl.3 man3/fmtmsg.3 man3/fpclassify.3
man3/fprintf.3 man3/fputwc.3 man3/fputws.3 man3/ftime.3 man3/ftw.3
man3/fwide.3 man3/fwprintf.3 man3/gamma.3 man3/gammaf.3 man3/gammal.3
man3/getaliasbyname.3 man3/getaliasbyname_r.3 man3/getaliasent.3
man3/getaliasent_r.3 man3/getgrent_r.3 man3/getnetgrent.3
man3/getnetgrent_r.3 man3/getpass.3 man3/getpwent_r.3 man3/getspent.3
man3/getspent_r.3 man3/getspnam.3 man3/getspnam_r.3 man3/getttyent.3
man3/getttynam.3 man3/getutent.3 man3/getutent_r.3 man3/getutid.3
man3/getutid_r.3 man3/getutline.3 man3/getutline_r.3 man3/getutxent.3
man3/getutxid.3 man3/getutxline.3 man3/getwc.3 man3/getwchar.3

man3/hcreate.3 man3/hcreate_r.3 man3/hdestroy.3 man3/hdestroy_r.3
man3/hsearch.3 man3/hsearch_r.3 man3/iconv.3 man3/iconv_close.3
man3/iconv_open.3 man3/innetgr.3 man3/isfinite.3 man3/isgreater.3
man3/isgreaterequal.3 man3/isinf.3 man3/isless.3 man3/islessequal.3
man3/islessgreater.3 man3/isnan.3 man3/isnormal.3 man3/isunordered.3
man3/iswalnum.3 man3/iswalpha.3 man3/iswblank.3 man3/iswcntrl.3
man3/iswctype.3 man3/iswdigit.3 man3/iswgraph.3 man3/iswlower.3
man3/iswprint.3 man3/iswpunct.3 man3/iswspace.3 man3/iswupper.3
man3/iswxdigit.3 man3/key_decryptsession.3 man3/key_encryptsession.3
man3/key_gendes.3 man3/key_secretkey_is_set.3 man3/key_setsecret.3
man3/l64a.3 man3/lckpwdf.3 man3/lgamma.3 man3/lgamma_r.3
man3/lgammaf.3 man3/lgammaf_r.3 man3/lgammal.3 man3/lgammal_r.3
man3/lio_listio.3 man3/lockf.3 man3/login.3 man3/logout.3
man3/logwtmp.3 man3/longjmp.3 man3/malloc_hook.3 man3/mblen.3

man3/mbrlen.3 man3/mbrtowc.3 man3/mbsinit.3 man3/mbsnrtowcs.3
man3/mbsrtowcs.3 man3/mbstowcs.3 man3/mbtowc.3 man3/mempcpy.3
man3/nan.3 man3/nanf.3 man3/nanl.3 man3/netlink.3 man3/nextafter.3
man3/nextafterf.3 man3/nextafterl.3 man3/nexttoward.3
man3/nexttowardf.3 man3/nexttowardl.3 man3/nftw.3 man3/nl_langinfo.3
man3/nl_langinfo_l.3 man3/ntp_adjtime.3 man3/open_memstream.3

man3/open_wmemstream.3 man3/passwd2des.3 man3/perror.3
man3/posix_madvise.3 man3/printf.3 man3/putgrent.3 man3/putspent.3
man3/pututline.3 man3/pututxline.3 man3/putwc.3 man3/putwchar.3
man3/remquo.3 man3/remquof.3 man3/remquol.3 man3/rtime.3
man3/setaliasent.3 man3/setjmp.3 man3/setkey.3 man3/setkey_r.3
man3/setnetgrent.3 man3/setspent.3 man3/setttyent.3 man3/setutent.3
man3/setutxent.3 man3/sgetspent.3 man3/sgetspent_r.3
man3/siglongjmp.3 man3/signbit.3 man3/signgam.3 man3/significand.3
man3/significandf.3 man3/significandl.3
man3/sigsetjmp.3
man3/sincos.3 man3/sincosf.3 man3/sincosl.3 man3/snprintf.3
man3/sprintf.3 man3/stpncpy.3 man3/strfmon.3 man3/strfmon_l.3
man3/strnlen.3 man3/strtoimax.3 man3/strtoumax.3 man3/swprintf.3
man3/sys_errlist.3 man3/sys_nerr.3 man3/tcdrain.3 man3/tcflow.3
man3/tcflush.3 man3/tcgetattr.3 man3/tcsendbreak.3 man3/tcsetattr.3
man3/termios.3 man3/tgamma.3 man3/tgammaf.3 man3/tgammal.3
man3/towctrans.3 man3/towlower.3 man3/towlower_l.3 man3/towupper.3
man3/towupper_l.3 man3/ttyname.3 man3/ttyname_r.3 man3/ualarm.3
man3/ulckpwdf.3 man3/ungetwc.3 man3/updwtmp.3 man3/updwtmpx.3
man3/utmpname.3 man3/utmpxname.3 man3/vdprintf.3 man3/vfprintf.3
man3/vfwprintf.3 man3/vprintf.3 man3/vsnprintf.3 man3/vsprintf.3
man3/vswprintf.3 man3/vwprintf.3 man3/wcpcpy.3 man3/wcpncpy.3
man3/wcrtomb.3 man3/wcscasecmp.3 man3/wcscat.3 man3/wcschr.3
man3/wcscmp.3 man3/wcscpy.3 man3/wcscspn.3 man3/wcsdup.3
man3/wcslen.3 man3/wcsncasecmp.3 man3/wcsncat.3 man3/wcsncmp.3
man3/wcsncpy.3 man3/wcsnlen.3 man3/wcsnrtombs.3 man3/wcspbrk.3
man3/wcsrchr.3 man3/wcsrtombs.3 man3/wcsspn.3 man3/wcsstr.3
man3/wcstoimax.3 man3/wcstok.3 man3/wcstombs.3 man3/wcstoumax.3
man3/wcswidth.3 man3/wctob.3 man3/wctomb.3 man3/wctrans.3
man3/wctype.3 man3/wcwidth.3 man3/wmemchr.3 man3/wmemcmp.3
man3/wmemcpy.3 man3/wmemmove.3 man3/wmempcpy.3 man3/wmemset.3
man3/wordexp.3 man3/wordfree.3 man3/wprintf.3 man3/xcrypt.3
man3/xdecrypt.3 man3/xencrypt.3 man4/console_codes.4
man4/console_ioctl.4 man4/dsp56k.4 man4/fd.4 man4/hd.4 man4/intro.4
man4/kmem.4 man4/lirc.4 man4/loop-control.4 man4/loop.4 man4/lp.4
man4/mem.4 man4/null.4 man4/port.4 man4/ram.4 man4/random.4
man4/rtc.4 man4/sk98lin.4 man4/tty.4 man4/ttyS.4 man4/tty_ioctl.4
man4/urandom.4 man4/vcs.4 man4/vcsa.4 man4/veth.4 man4/wavelan.4
man4/zero.4 man5/charmap.5
man5/filesystems.5 man5/fs.5
man5/ftpusers.5 man5/group.5 man5/host.conf.5 man5/hosts.5
man5/hosts.equiv.5 man5/intro.5 man5/issue.5 man5/locale.5
man5/motd.5 man5/networks.5 man5/nologin.5 man5/nscd.conf.5
man5/nsswitch.conf.5 man5/passwd.5 man5/proc.5 man5/procfs.5
man5/protocols.5 man5/repertoiremap.5 man5/securetty.5 man5/shells.5
man5/termcap.5 man5/ttytype.5 man5/utmp.5 man5/utmpx.5 man5/wtmp.5
man6/intro.6 man7/armscii-8.7 man7/ascii.7 man7/attributes.7
man7/boot.7 man7/bootparam.7 man7/charsets.7 man7/complex.7

man7/cp1251.7 man7/cp1252.7 man7/environ.7 man7/epoll.7 man7/glob.7
man7/intro.7 man7/iso-8859-1.7 man7/iso-8859-10.7 man7/iso-8859-11.7
man7/iso-8859-13.7 man7/iso-8859-14.7 man7/iso-8859-15.7
man7/iso-8859-16.7 man7/iso-8859-2.7 man7/iso-8859-3.7
man7/iso-8859-4.7 man7/iso-8859-5.7 man7/iso-8859-6.7
man7/iso-8859-7.7 man7/iso-8859-8.7 man7/iso-8859-9.7
man7/iso_8859-1.7
man7/iso_8859-10.7 man7/iso_8859-11.7
man7/iso_8859-13.7 man7/iso_8859-14.7 man7/iso_8859-15.7
man7/iso_8859-16.7 man7/iso_8859-2.7 man7/iso_8859-3.7
man7/iso_8859-4.7 man7/iso_8859-5.7 man7/iso_8859-6.7
man7/iso_8859-7.7 man7/iso_8859-8.7 man7/iso_8859-9.7
man7/iso_8859_1.7 man7/iso_8859_10.7 man7/iso_8859_11.7
man7/iso_8859_13.7 man7/iso_8859_14.7 man7/iso_8859_15.7
man7/iso_8859_16.7 man7/iso_8859_2.7 man7/iso_8859_3.7
man7/iso_8859_4.7 man7/iso_8859_5.7 man7/iso_8859_6.7
man7/iso_8859_7.7 man7/iso_8859_8.7 man7/iso_8859_9.7
man7/kernel_lockdown.7 man7/keyrings.7 man7/koi8-r.7 man7/koi8-u.7
man7/latin1.7 man7/latin10.7 man7/latin2.7 man7/latin3.7
man7/latin4.7 man7/latin5.7 man7/latin6.7 man7/latin7.7 man7/latin8.7
man7/latin9.7 man7/netlink.7 man7/persistent-keyring.7
man7/posixoptions.7 man7/process-keyring.7 man7/sched.7
man7/session-keyring.7 man7/sock_diag.7 man7/spufs.7
man7/standards.7
man7/thread-keyring.7 man7/tis-620.7 man7/unicode.7
man7/user-keyring.7 man7/user-session-keyring.7 man7/utf-8.7
man7/utf8.7 man7/xattr.7 man8/iconvconfig.8 man8/intro.8
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man2/access.2 man2/alarm.2 man2/alloc_hugepages.2 man2/arch_prctl.2
man2/arm_fadvise.2 man2/arm_fadvise64_64.2 man2/arm_sync_file_range.2
man2/bpf.2 man2/chdir.2 man2/chmod.2 man2/chown.2 man2/chown32.2
man2/chroot.2 man2/clock_getres.2 man2/clock_gettime.2
man2/clock_nanosleep.2 man2/clock_settime.2 man2/close.2
man2/copy_file_range.2 man2/creat.2 man2/delete_module.2 man2/dup.2
man2/dup2.2 man2/dup3.2 man2/execve.2
man2/execveat.2 man2/exit.2
man2/exit_group.2 man2/faccessat.2 man2/faccessat2.2 man2/fadvise64.2
man2/fadvise64_64.2 man2/fanotify_init.2 man2/fanotify_mark.2
man2/fchdir.2 man2/fchmod.2 man2/fchmodat.2 man2/fchown.2
man2/fchown32.2 man2/fchownat.2 man2/fcntl.2 man2/fcntl64.2
man2/fdatasync.2 man2/finit_module.2 man2/flock.2 man2/fork.2
man2/free_hugepages.2 man2/fstat.2 man2/fstat64.2 man2/fstatat.2
man2/fstatat64.2 man2/fstatfs.2 man2/fstatfs64.2 man2/fsync.2
man2/futimesat.2 man2/get_mempolicy.2 man2/get_robust_list.2
man2/getcpu.2 man2/getcwd.2 man2/getdents.2 man2/getdents64.2
man2/getdomainname.2 man2/getegid.2 man2/getegid32.2 man2/geteuid.2
man2/geteuid32.2 man2/getgid.2 man2/getgid32.2 man2/getgroups.2
man2/getgroups32.2 man2/gethostname.2 man2/getpagesize.2
man2/getpid.2 man2/getppid.2 man2/getrandom.2 man2/getresgid.2
man2/getresgid32.2 man2/getresuid.2 man2/getresuid32.2
man2/getrlimit.2 man2/getrusage.2 man2/gettid.2 man2/gettimeofday.2
man2/getuid.2 man2/getuid32.2 man2/getunwind.2 man2/idle.2
man2/init_module.2 man2/intro.2 man2/ioctl_fat.2 man2/ioctl_iflags.2
man2/ioctl_ns.2 man2/ioctl_userfaultfd.2 man2/iopl.2 man2/kcmp.2
man2/kexec_file_load.2 man2/kexec_load.2 man2/keyctl.2 man2/kill.2
man2/lchown.2 man2/lchown32.2 man2/link.2 man2/linkat.2 man2/llseek.2
man2/lookup_dcookie.2 man2/lstat.2 man2/lstat64.2 man2/madvise.2
man2/mbind.2 man2/membarrier.2 man2/migrate_pages.2 man2/mincore.2
man2/mmap.2 man2/mmap2.2 man2/mount.2 man2/move_pages.2
man2/mprotect.2 man2/mq_getsetattr.2 man2/mq_notify.2 man2/mq_open.2
man2/mq_timedreceive.2 man2/mq_timedsend.2 man2/mq_unlink.2
man2/msgctl.2 man2/msgget.2 man2/msgop.2 man2/msgrcv.2 man2/msgsnd.2
man2/msync.2 man2/munmap.2 man2/name_to_handle_at.2 man2/newfstatat.2
man2/nice.2 man2/oldfstat.2 man2/oldlstat.2
man2/oldolduname.2
man2/oldstat.2 man2/olduname.2 man2/open.2 man2/open_by_handle_at.2
man2/openat.2 man2/openat2.2 man2/pause.2 man2/perfmonctl.2
man2/personality.2 man2/pidfd_getfd.2 man2/pidfd_open.2
man2/pidfd_send_signal.2 man2/pipe.2 man2/pipe2.2 man2/pivot_root.2

man2/pkey_alloc.2 man2/pkey_free.2 man2/pkey_mprotect.2 man2/poll.2
man2/posix_fadvise.2 man2/ppoll.2 man2/prctl.2 man2/pread.2
man2/pread64.2 man2/preadv.2 man2/preadv2.2 man2/prlimit.2
man2/prlimit64.2 man2/process_vm_readv.2 man2/process_vm_writev.2
man2/pselect.2 man2/pselect6.2 man2/pwrite.2 man2/pwrite64.2
man2/pwritev.2 man2/pwritev2.2 man2/quotactl.2 man2/read.2
man2/readahead.2 man2/readdir.2 man2/readv.2 man2/reboot.2
man2/recvmmsg.2 man2/remap_file_pages.2 man2/rename.2 man2/renameat.2
man2/renameat2.2 man2/restart_syscall.2 man2/rmdir.2
man2/rt_sigaction.2 man2/rt_sigpending.2 man2/rt_sigprocmask.2
man2/rt_sigqueueinfo.2
man2/rt_sigreturn.2 man2/rt_sigsuspend.2
man2/rt_sigtimedwait.2 man2/rt_tgsigqueueinfo.2
man2/s390_guarded_storage.2 man2/sched_getattr.2
man2/sched_getscheduler.2 man2/sched_setattr.2
man2/sched_setscheduler.2 man2/seccomp.2 man2/select.2
man2/select_tut.2 man2/semctl.2 man2/semget.2 man2/semop.2
man2/semtimedop.2 man2/sendfile.2 man2/sendfile64.2 man2/sendmmsg.2
man2/set_mempolicy.2 man2/set_robust_list.2 man2/set_tid_address.2
man2/setdomainname.2 man2/setegid.2 man2/seteuid.2 man2/setfsgid.2
man2/setfsgid32.2 man2/setfsuid.2 man2/setfsuid32.2 man2/setgid.2
man2/setgid32.2 man2/setgroups.2 man2/setgroups32.2
man2/sethostname.2 man2/setresgid.2 man2/setresgid32.2
man2/setresuid.2 man2/setresuid32.2 man2/setrlimit.2
man2/settimeofday.2 man2/setuid.2 man2/setuid32.2 man2/setup.2
man2/sgetmask.2 man2/shmat.2 man2/shmctl.2 man2/shmdt.2 man2/shmget.2
man2/shmop.2 man2/sigaction.2
man2/sigaltstack.2 man2/signal.2
man2/sigpending.2 man2/sigprocmask.2 man2/sigreturn.2
man2/sigsuspend.2 man2/sigtimedwait.2 man2/sigwaitinfo.2
man2/splice.2 man2/ssetmask.2 man2/stat.2 man2/stat64.2 man2/statfs.2
man2/statfs64.2 man2/statx.2 man2/stime.2 man2/subpage_prot.2
man2/swapoff.2 man2/swapon.2 man2/symlink.2 man2/symlinkat.2
man2/sync.2 man2/sync_file_range.2 man2/sync_file_range2.2
man2/syncfs.2 man2/syscalls.2 man2/sysctl.2 man2/sysfs.2
man2/sysinfo.2 man2/syslog.2 man2/tee.2 man2/tgkill.2 man2/time.2
man2/timer_create.2 man2/timer_delete.2 man2/timer_getoverrun.2
man2/timer_gettime.2 man2/timer_settime.2 man2/times.2 man2/tkill.2
man2/ugetrlimit.2 man2/umask.2 man2/umount.2 man2/umount2.2
man2/uname.2 man2/unlink.2 man2/unlinkat.2 man2/uselib.2
man2/userfaultfd.2 man2/ustat.2 man2/utime.2 man2/utimensat.2
man2/utimes.2 man2/vfork.2 man2/vhangup.2 man2/vm86.2 man2/vm86old.2
man2/vmsplice.2 man2/wait.2 man2/wait3.2 man2/wait4.2 man2/waitid.2
man2/waitpid.2 man2/write.2 man2/writev.2 man3/CMSG_ALIGN.3
man3/CMSG_DATA.3 man3/CMSG_FIRSTHDR.3 man3/CMSG_LEN.3
man3/CMSG_NXTHDR.3 man3/CMSG_SPACE.3 man3/CPU_ALLOC.3
man3/CPU_ALLOC_SIZE.3 man3/CPU_AND.3 man3/CPU_AND_S.3 man3/CPU_CLR.3
man3/CPU_CLR_S.3 man3/CPU_COUNT.3 man3/CPU_COUNT_S.3 man3/CPU_EQUAL.3

man3/CPU_EQUAL_S.3 man3/CPU_FREE.3 man3/CPU_ISSET.3
man3/CPU_ISSET_S.3 man3/CPU_OR.3 man3/CPU_OR_S.3 man3/CPU_SET.3
man3/CPU_SET_S.3 man3/CPU_XOR.3 man3/CPU_XOR_S.3 man3/CPU_ZERO.3
man3/CPU_ZERO_S.3 man3/FD_CLR.3 man3/FD_ISSET.3 man3/FD_SET.3
man3/FD_ZERO.3 man3/FILE.3 man3/HUGE_VAL.3 man3/HUGE_VALF.3
man3/HUGE_VALL.3 man3/INFINITY.3 man3/NAN.3 man3/__fbufsize.3
man3/__flbf.3 man3/__fpending.3 man3/__fpurge.3 man3/__freadable.3
man3/__freading.3 man3/__fsetlocking.3 man3/__fwritable.3
man3/__fwriting.3
man3/__ppc_get_timebase.3
man3/__ppc_get_timebase_freq.3 man3/__ppc_mdoio.3 man3/__ppc_mdoom.3
man3/__ppc_set_ppr_low.3 man3/__ppc_set_ppr_med.3
man3/__ppc_set_ppr_med_high.3 man3/__ppc_set_ppr_med_low.3
man3/__ppc_set_ppr_very_low.3 man3/__ppc_yield.3 man3/_flushlbf.3
man3/abort.3 man3/abs.3 man3/acos.3 man3/acosf.3 man3/acosh.3
man3/acoshf.3 man3/acoshl.3 man3/acosl.3 man3/addmntent.3
man3/adjtime.3 man3/aio_init.3 man3/aiocb.3 man3/aligned_alloc.3
man3/asctime.3 man3/asctime_r.3 man3/asin.3 man3/asinf.3 man3/asinh.3
man3/asinhf.3 man3/asinhl.3 man3/asinl.3 man3/asprintf.3
man3/assert.3 man3/assert_perror.3 man3/atan.3 man3/atan2.3
man3/atan2f.3 man3/atan2l.3 man3/atanf.3 man3/atanh.3 man3/atanhf.3
man3/atanhl.3 man3/atanl.3 man3/atexit.3 man3/atof.3 man3/atoi.3
man3/atol.3 man3/atoll.3 man3/atoq.3 man3/basename.3 man3/bcmp.3
man3/bcopy.3 man3/be16toh.3 man3/be32toh.3 man3/be64toh.3

man3/bindresvport.3 man3/bsd_signal.3 man3/bsearch.3 man3/bstring.3
man3/bswap.3 man3/bswap_16.3 man3/bswap_32.3 man3/bswap_64.3
man3/byteorder.3 man3/bzero.3 man3/calloc.3
man3/canonicalize_file_name.3 man3/catclose.3 man3/catgets.3
man3/catopen.3 man3/cbrt.3 man3/cbrtf.3 man3/cbrtl.3 man3/ceil.3
man3/ceilf.3 man3/ceill.3 man3/clearenv.3 man3/clearerr_unlocked.3
man3/clock.3 man3/clock_getcpuclockid.3 man3/clock_t.3
man3/clockid_t.3 man3/closedir.3 man3/closelog.3 man3/cmsg.3
man3/confstr.3 man3/copysign.3 man3/copysignf.3 man3/copysignl.3
man3/cos.3 man3/cosf.3 man3/cosh.3 man3/coshf.3 man3/coshl.3
man3/cosl.3 man3/ctermid.3 man3/ctime.3 man3/ctime_r.3 man3/cuserid.3
man3/daylight.3 man3/dev_t.3 man3/difftime.3 man3/dirfd.3
man3/dirname.3 man3/div.3 man3/div_t.3 man3/dl_iterate_phdr.3
man3/dladdr.3 man3/dladdr1.3 man3/dlinfo.3 man3/dn_comp.3
man3/dn_expand.3 man3/double_t.3 man3/drand48.3
man3/drand48_r.3
man3/drem.3 man3/dremf.3 man3/dreml.3 man3/duplocale.3 man3/dysize.3
man3/eaccess.3 man3/ecvt.3 man3/ecvt_r.3 man3/edata.3 man3/end.3
man3/endfsent.3 man3/endgrent.3 man3/endhostent.3 man3/endian.3
man3/endmntent.3 man3/endnetent.3 man3/endprotoent.3 man3/endpwent.3
man3/endservent.3 man3/endusershell.3 man3/erand48.3 man3/erand48_r.3
man3/erf.3 man3/erfc.3 man3/erfcf.3 man3/erfcl.3 man3/erff.3
man3/erfl.3 man3/etext.3 man3/ether_aton.3 man3/ether_aton_r.3

man3/ether_hostton.3 man3/ether_line.3 man3/ether_ntoa.3
man3/ether_ntoa_r.3 man3/ether_ntohost.3 man3/euidaccess.3
man3/exit.3 man3/exp.3 man3/exp10.3 man3/exp10f.3 man3/exp10l.3
man3/exp2.3 man3/exp2f.3 man3/exp2l.3 man3/expf.3 man3/expl.3
man3/explicit_bzero.3 man3/expm1.3 man3/expm1f.3 man3/expm1l.3
man3/fabs.3 man3/fabsf.3 man3/fabsl.3 man3/fcloseall.3 man3/fcvt.3
man3/fcvt_r.3 man3/fdopendir.3 man3/fenv_t.3 man3/feof_unlocked.3
man3/ferror_unlocked.3 man3/fexcept_t.3 man3/fexecve.3
man3/fflush_unlocked.3 man3/ffs.3 man3/ffsl.3 man3/ffsll.3
man3/fgetc.3 man3/fgetc_unlocked.3 man3/fgetgrent.3 man3/fgetpwent.3
man3/fgets.3 man3/fgets_unlocked.3 man3/fgetwc_unlocked.3
man3/fgetws_unlocked.3 man3/fileno_unlocked.3 man3/finite.3
man3/finitef.3 man3/finitel.3 man3/float_t.3 man3/flockfile.3
man3/floor.3 man3/floorf.3 man3/floorl.3 man3/fmod.3 man3/fmodf.3
man3/fmodl.3 man3/fnmatch.3 man3/fopencookie.3 man3/fpathconf.3
man3/fpurge.3 man3/fputc.3 man3/fputc_unlocked.3 man3/fputs.3
man3/fputs_unlocked.3 man3/fputwc_unlocked.3 man3/fputws_unlocked.3
man3/fread_unlocked.3 man3/free.3 man3/freeaddrinfo.3
man3/freehostent.3 man3/freeifaddrs.3 man3/freelocale.3 man3/frexp.3
man3/frexpf.3 man3/frexpl.3 man3/fseeko.3 man3/fstatvfs.3
man3/ftello.3 man3/ftok.3 man3/ftrylockfile.3 man3/funlockfile.3
man3/futimens.3
man3/futimes.3 man3/fwrite_unlocked.3
man3/gai_cancel.3 man3/gai_error.3 man3/gai_strerror.3
man3/gai_suspend.3 man3/gcvt.3 man3/get_avphys_pages.3
man3/get_current_dir_name.3 man3/get_nprocs.3 man3/get_nprocs_conf.3
man3/get_phys_pages.3 man3/getaddrinfo.3 man3/getaddrinfo_a.3
man3/getauxval.3 man3/getc.3 man3/getc_unlocked.3 man3/getchar.3
man3/getchar_unlocked.3 man3/getcontext.3 man3/getcwd.3
man3/getdate.3 man3/getdate_err.3 man3/getdate_r.3 man3/getdelim.3
man3/getdirentries.3 man3/getdtablesize.3 man3/getentropy.3
man3/getenv.3 man3/getfsent.3 man3/getfsfile.3 man3/getfsspec.3
man3/getgrent.3 man3/getgrgid.3 man3/getgrgid_r.3 man3/getgrnam.3
man3/getgrnam_r.3 man3/getgrouplist.3 man3/gethostbyaddr.3
man3/gethostbyaddr_r.3 man3/gethostbyname.3 man3/gethostbyname2.3
man3/gethostbyname2_r.3 man3/gethostbyname_r.3 man3/gethostent.3
man3/gethostent_r.3 man3/gethostid.3 man3/getifaddrs.3
man3/getipnodebyaddr.3 man3/getipnodebyname.3 man3/getline.3
man3/getlogin.3 man3/getlogin_r.3 man3/getmntent.3 man3/getmntent_r.3
man3/getnetbyaddr.3 man3/getnetbyaddr_r.3 man3/getnetbyname.3
man3/getnetbyname_r.3 man3/getnetent.3 man3/getnetent_r.3
man3/getopt.3 man3/getopt_long.3 man3/getopt_long_only.3
man3/getprotobyname.3 man3/getprotobyname_r.3 man3/getprotobynumber.3
man3/getprotobynumber_r.3 man3/getprotoent.3 man3/getprotoent_r.3
man3/getpw.3 man3/getpwent.3 man3/getpwnam.3 man3/getpwnam_r.3
man3/getpwuid.3 man3/getpwuid_r.3 man3/getrpcbyname_r.3
man3/getrpcbynumber_r.3 man3/getrpcent_r.3 man3/gets.3
man3/getservbyname.3 man3/getservbyname_r.3 man3/getservbyport.3

man3/getservbyport_r.3 man3/getservent.3 man3/getservent_r.3
man3/getumask.3 man3/getusershell.3 man3/getutmp.3 man3/getutmpx.3
man3/getw.3 man3/getwc_unlocked.3 man3/getwchar_unlocked.3
man3/getwd.3 man3/gid_t.3
man3/glob.3 man3/globfree.3 man3/gmtime.3
man3/gmtime_r.3 man3/gnu_dev_major.3 man3/gnu_dev_makedev.3
man3/gnu_dev_minor.3 man3/gnu_get_libc_release.3
man3/gnu_get_libc_version.3 man3/group_member.3 man3/gsignal.3
man3/h_errno.3 man3/hasmntopt.3 man3/herror.3 man3/hstrerror.3
man3/htobe16.3 man3/htobe32.3 man3/htobe64.3 man3/htole16.3
man3/htole32.3 man3/htole64.3 man3/htonl.3 man3/htons.3 man3/hypot.3
man3/hypotf.3 man3/hypotl.3 man3/id_t.3 man3/if_freenameindex.3
man3/if_indextoname.3 man3/if_nameindex.3 man3/if_nametoindex.3
man3/ilogb.3 man3/ilogbf.3 man3/ilogbl.3 man3/imaxabs.3
man3/imaxdiv.3 man3/imaxdiv_t.3 man3/index.3 man3/inet.3
man3/inet_addr.3 man3/inet_aton.3 man3/inet_lnaof.3
man3/inet_makeaddr.3 man3/inet_net_ntop.3 man3/inet_net_pton.3
man3/inet_netof.3 man3/inet_network.3 man3/inet_ntoa.3
man3/inet_ntop.3 man3/inet_pton.3 man3/initgroups.3 man3/initstate.3

man3/initstate_r.3 man3/insque.3 man3/int16_t.3 man3/int32_t.3
man3/int64_t.3 man3/int8_t.3 man3/intN_t.3 man3/intmax_t.3
man3/intptr_t.3 man3/intro.3 man3/isalnum.3 man3/isalnum_l.3
man3/isalpha.3 man3/isalpha_l.3 man3/isascii.3 man3/isascii_l.3
man3/isatty.3 man3/isblank.3 man3/isblank_l.3 man3/iscntrl.3
man3/iscntrl_l.3 man3/isdigit.3 man3/isdigit_l.3 man3/isfdtype.3
man3/isgraph.3 man3/isgraph_l.3 man3/isinff.3 man3/isinfl.3
man3/islower.3 man3/islower_l.3 man3/isnanf.3 man3/isnanl.3
man3/isprint.3 man3/isprint_l.3 man3/ispunct.3 man3/ispunct_l.3
man3/isspace.3 man3/isspace_l.3 man3/isupper.3 man3/isupper_l.3
man3/isxdigit.3 man3/isxdigit_l.3 man3/j0.3 man3/j0f.3 man3/j0l.3
man3/j1.3 man3/j1f.3 man3/j1l.3 man3/jn.3 man3/jnf.3 man3/jnl.3
man3/jrand48.3 man3/jrand48_r.3 man3/klogctl.3 man3/labs.3
man3/lcong48.3 man3/lcong48_r.3 man3/lconv.3 man3/ldexp.3
man3/ldexpf.3 man3/ldexpl.3 man3/ldiv.3
man3/ldiv_t.3 man3/le16toh.3
man3/le32toh.3 man3/le64toh.3 man3/lfind.3 man3/llabs.3 man3/lldiv.3
man3/lldiv_t.3 man3/llrint.3 man3/llrintf.3 man3/llrintl.3
man3/llround.3 man3/llroundf.3 man3/llroundl.3 man3/localeconv.3
man3/localtime.3 man3/localtime_r.3 man3/log.3 man3/log10.3
man3/log10f.3 man3/log10l.3 man3/log1p.3 man3/log1pf.3 man3/log1pl.3
man3/log2.3 man3/log2f.3 man3/log2l.3 man3/logb.3 man3/logbf.3
man3/logbl.3 man3/logf.3 man3/logl.3 man3/lrand48.3 man3/lrand48_r.3
man3/lrint.3 man3/lrintf.3 man3/lrintl.3 man3/lround.3 man3/lroundf.3
man3/lroundl.3 man3/lsearch.3 man3/lseek64.3 man3/lutimes.3
man3/major.3 man3/makecontext.3 man3/makedev.3 man3/mallinfo.3
man3/malloc.3 man3/malloc_get_state.3 man3/malloc_info.3
man3/malloc_set_state.3 man3/malloc_stats.3 man3/malloc_trim.3

man3/malloc_usable_size.3 man3/mallopt.3 man3/matherr.3 man3/mcheck.3
man3/mcheck_check_all.3 man3/mcheck_pedantic.3
man3/memalign.3
man3/memccpy.3 man3/memchr.3 man3/memcmp.3 man3/memcpy.3
man3/memfrob.3 man3/memmem.3 man3/memmove.3 man3/memrchr.3
man3/memset.3 man3/minor.3 man3/mkdtemp.3 man3/mkfifo.3
man3/mkfifoat.3 man3/mkostemp.3 man3/mkostemps.3 man3/mkstemp.3
man3/mkstemps.3 man3/mktemp.3 man3/mktime.3 man3/mmap64.3 man3/modf.3
man3/modff.3 man3/modfl.3 man3/mprobe.3 man3/mq_close.3
man3/mq_getattr.3 man3/mq_notify.3 man3/mq_open.3 man3/mq_receive.3
man3/mq_send.3 man3/mq_setattr.3 man3/mq_timedreceive.3
man3/mq_timedsend.3 man3/mq_unlink.3 man3/mrand48.3 man3/mrand48_r.3
man3/mtrace.3 man3/muntrace.3 man3/nearbyint.3 man3/nearbyintf.3
man3/nearbyintl.3 man3/newlocale.3 man3/nextdown.3 man3/nextdownf.3
man3/nextdownl.3 man3/nextup.3 man3/nextupf.3 man3/nextupl.3
man3/nrand48.3 man3/nrand48_r.3 man3/ntohl.3 man3/ntohs.3
man3/ntp_gettime.3 man3/ntp_gettimex.3 man3/off_t.3 man3/on_exit.3
man3/opendir.3 man3/openlog.3 man3/optarg.3 man3/opterr.3
man3/optind.3 man3/optopt.3 man3/pathconf.3 man3/pid_t.3
man3/posix_fallocate.3 man3/posix_memalign.3 man3/posix_openpt.3
man3/posix_spawn.3 man3/posix_spawnp.3 man3/pow.3 man3/pow10.3
man3/pow10f.3 man3/pow10l.3 man3/powf.3 man3/powl.3 man3/profil.3
man3/psiginfo.3 man3/psignal.3 man3/pthread_atfork.3
man3/pthread_attr_destroy.3 man3/pthread_attr_getaffinity_np.3
man3/pthread_attr_getdetachstate.3 man3/pthread_attr_getguardsize.3
man3/pthread_attr_getinheritsched.3 man3/pthread_attr_getschedparam.3
man3/pthread_attr_getschedpolicy.3 man3/pthread_attr_getscope.3
man3/pthread_attr_getsigmask_np.3 man3/pthread_attr_getstack.3
man3/pthread_attr_getstackaddr.3 man3/pthread_attr_getstacksize.3
man3/pthread_attr_init.3 man3/pthread_attr_setaffinity_np.3
man3/pthread_attr_setdetachstate.3 man3/pthread_attr_setguardsize.3
man3/pthread_attr_setinheritsched.3
man3/pthread_attr_setschedparam.3
man3/pthread_attr_setschedpolicy.3 man3/pthread_attr_setscope.3
man3/pthread_attr_setsigmask_np.3 man3/pthread_attr_setstack.3
man3/pthread_attr_setstackaddr.3 man3/pthread_attr_setstacksize.3
man3/pthread_cancel.3 man3/pthread_cleanup_pop.3
man3/pthread_cleanup_pop_restore_np.3 man3/pthread_cleanup_push.3
man3/pthread_cleanup_push_defer_np.3 man3/pthread_create.3
man3/pthread_detach.3 man3/pthread_equal.3 man3/pthread_exit.3
man3/pthread_getaffinity_np.3 man3/pthread_getattr_default_np.3
man3/pthread_getattr_np.3 man3/pthread_getconcurrency.3
man3/pthread_getcpuclockid.3 man3/pthread_getname_np.3
man3/pthread_getschedparam.3 man3/pthread_join.3 man3/pthread_kill.3
man3/pthread_kill_other_threads_np.3 man3/pthread_mutex_consistent.3
man3/pthread_mutex_consistent_np.3 man3/pthread_mutexattr_destroy.3
man3/pthread_mutexattr_getpshared.3

man3/pthread_mutexattr_getrobust.3
man3/pthread_mutexattr_getrobust_np.3 man3/pthread_mutexattr_init.3
man3/pthread_mutexattr_setpshared.3
man3/pthread_mutexattr_setrobust.3
man3/pthread_mutexattr_setrobust_np.3
man3/pthread_rwlockattr_getkind_np.3
man3/pthread_rwlockattr_setkind_np.3 man3/pthread_self.3
man3/pthread_setaffinity_np.3 man3/pthread_setattr_default_np.3
man3/pthread_setcancelstate.3 man3/pthread_setcanceltype.3
man3/pthread_setconcurrency.3 man3/pthread_setname_np.3
man3/pthread_setschedparam.3 man3/pthread_setschedprio.3
man3/pthread_sigmask.3 man3/pthread_sigqueue.3
man3/pthread_spin_destroy.3 man3/pthread_spin_init.3
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man3/regmatch_t.3 man3/regoff_t.3 man3/remainder.3 man3/remainderf.3
man3/remainderl.3 man3/remove.3 man3/remque.3 man3/res_init.3
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man3/sem_trywait.3 man3/sem_unlink.3 man3/sem_wait.3
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man3/setservent.3 man3/setstate.3 man3/setstate_r.3
man3/setusershell.3 man3/shm_open.3 man3/shm_unlink.3
man3/sigabbrev_np.3 man3/sigaddset.3 man3/sigandset.3

man3/sigblock.3
man3/sigdelset.3 man3/sigdescr_np.3 man3/sigemptyset.3
man3/sigfillset.3 man3/siggetmask.3 man3/sighold.3 man3/sigignore.3
man3/siginfo_t.3 man3/siginterrupt.3 man3/sigisemptyset.3
man3/sigismember.3 man3/sigmask.3 man3/sigorset.3 man3/sigpause.3
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man3/sys_siglist.3 man3/sysconf.3 man3/syslog.3 man3/system.3
man3/sysv_signal.3 man3/tan.3 man3/tanf.3 man3/tanh.3 man3/tanhf.3
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man3/tcsetpgrp.3 man3/tdelete.3 man3/tdestroy.3 man3/telldir.3
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man3/uintN_t.3 man3/uintmax_t.3 man3/uintptr_t.3 man3/ulimit.3
man3/undocumented.3 man3/ungetc.3 man3/unlocked_stdio.3
man3/unsetenv.3 man3/uselocale.3 man3/usleep.3 man3/va_list.3
man3/valloc.3 man3/vasprintf.3 man3/vlimit.3 man3/void.3
man3/vsyslog.3 man3/vtimes.3 man3/y0.3 man3/y0f.3 man3/y0l.3
man3/y1.3 man3/y1f.3 man3/y1l.3 man3/yn.3 man3/ynf.3 man3/ynl.3
man4/cpuid.4 man4/full.4
man4/fuse.4 man4/initrd.4 man4/mouse.4
man4/msr.4 man4/sd.4 man4/st.4 man5/acct.5 man5/core.5

man5/services.5 man5/slabinfo.5 man5/sysfs.5 man5/tmpfs.5
man7/address_families.7 man7/aio.7 man7/arp.7 man7/capabilities.7
man7/cgroup_namespaces.7 man7/cgroups.7 man7/credentials.7 man7/ddp.7
man7/fanotify.7 man7/feature_test_macros.7 man7/fifo.7 man7/glibc.7
man7/hier.7 man7/icmp.7 man7/inode.7 man7/inotify.7 man7/ip.7
man7/ipc_namespaces.7 man7/ipv6.7 man7/libc.7 man7/locale.7
man7/man-pages.7 man7/man.7 man7/math_error.7 man7/mount_namespaces.7
man7/mq_overview.7 man7/namespaces.7 man7/netdevice.7
man7/network_namespaces.7 man7/nptl.7 man7/numa.7 man7/packet.7
man7/path_resolution.7 man7/pid_namespaces.7 man7/pipe.7 man7/pkeys.7
man7/pthreads.7 man7/pty.7 man7/random.7 man7/raw.7 man7/rtld-audit.7
man7/rtnetlink.7 man7/sem_overview.7 man7/shm_overview.7
man7/sigevent.7 man7/signal-safety.7
man7/signal.7 man7/socket.7
man7/suffixes.7 man7/svipc.7 man7/system_data_types.7 man7/sysvipc.7
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man7/udp.7 man7/udplite.7 man7/units.7 man7/unix.7 man7/uri.7
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1.607 glibc-locale 2.33

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1.608 lib32-linux-libc-headers 5.10

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

* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*   Fix is simple: make large buffers large enough to hold entire
*   SDU, and leave <small_buffer_data> bytes empty at the start. Then
*   copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*   buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
*   2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*   details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May
2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	

no
2.0 1.6 2000 BeOpen.com no
1.6.1 1.6 2001 CNRI yes (2)
2.1 2.0+1.6.1 2001 PSF no
2.0.1 2.0+1.6.1 2001 PSF yes
2.1.1 2.1+2.0.1 2001 PSF yes
2.1.2 2.1.1 2002 PSF yes
2.1.3 2.1.2 2002 PSF yes
2.2 and above 2.1.1 2001-now PSF yes

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==========
Advice for new contributors
==========

New contributor and not sure what to do? Want to help but just don't know how
to get started? This is the section for you.

.. admonition:: Basic tools and workflow

  If you are new to contributing to Django, the :doc:`/intro/contributing`
  tutorial will give you an introduction to the tools and the workflow.

First steps
==========

Start with these easy tasks to discover Django's development process.

* **Triage tickets**

 If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you
 can reproduce it and it seems valid, make a note that you confirmed the bug
 and accept the ticket. Make sure the ticket is filed under the correct
 component area. Consider writing a patch that adds a test for the bug's
 behavior, even if you don't fix the bug itself. See more at
 :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity

 with the codebase and the process**

 Mark the appropriate flags if a patch needs docs or tests. Look through the
 changes a patch makes, and keep an eye out for syntax that is incompatible

with older but still supported versions of Python. :doc:`Run the tests
</internals/contributing/writing-code/unit-tests>` and make sure they pass.
Where possible and relevant, try them out on a database other than SQLite.
Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the
time it gets reviewed. Make sure it still applies cleanly and functions as
expected. Simply updating a patch is both useful and important! See more on
:doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find
a typo? Do you think that something should be clarified? Go ahead and
suggest a documentation patch! See also the guide on
:doc:`writing-documentation`.

.. note::

    The `reports page`_ contains links to many useful Trac queries, including
    several that are useful for triaging tickets and reviewing patches as
    suggested above.

    .. _reports page: https://code.djangoproject.com/wiki/Reports

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.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's
some advice to make your work on Django more useful and rewarding.

* **Pick a subject
area that you care about, that you are familiar with, or
that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

  When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch
  doesn't have docs and tests, there had better be a good reason. Arguments
  like "I couldn't find any existing tests of this feature" don't carry much
  weight--while it may be true, that means you have the extra-important job of
  writing the very first tests for that feature, not that you get a pass from
  writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can
   I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers
   (except the Django fellow), and sometimes folks just don't have time. The
   best thing to do is to
  send a gentle reminder to the |django-developers|
   mailing list asking for review on the ticket, or to bring it up in the
   `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC
   myself?**

   Short answer: No. It's always better to get another set of eyes on a
   ticket. If you're having trouble getting that second set of eyes, see
   question 1, above.

1.613 desktop-file-utils 0.26

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1.614 libperlio-gzip-perl 0.20

1.614.1 Available under license :

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PerlIO::gzip version 0.20
==========

A layer for the PerlIO system to transparently gzip/gunzip files.
DON'T trust it with your data.

YOU NEED PERL 5.8.0 or later.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
echo I know that I am using this at my own risk
make install
```

That echo statement is particularly important.

DEPENDENCIES

This module requires perl 5.8.0 or later compiler with PerlIO.
(which is now the default), and the zlib compression library.

BUGS

Threads - Currenly this module isn't threadsafe as it can't clone an open layer.
flush() doesn't really flush, just empty the buffer

TODO

Lots:

Check that concatenating to files works. Add a way of reading multiple
contactenated gzip files.
Test more
Add an open method so that things we don't like (read/write opens) are faulted
early (ie before a file is created on disk) and so
 that we add "b" flag to
the open for the layer below.
Test more
Rewrite flush to really flush, and write a PerlIOGzip_write() rather than
rely on PerlIOBuf_write, which calls flush() to empty the buffer each time.
Test more
Cope with crlf systems. Should this layer turn off crlf on the layer below
and turn it on on itself?
Cope with utf8. Should the utf8 flag be hiked above us?
Test more
Worry about threads.
Writing headers with fancy stuff (filename, comment, extra info, header crc)
What to about the "TEXT" flag in the gzip header
Test more

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Found in path(s):
* /perlio-gzip-0-20-tar-gz/PerlIO-gzip-0.20/README
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```
/*    gzip.xs
*
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*    file.
*
*/
```

Found in path(s):
* /perlio-gzip-0-20-tar-gz/PerlIO-gzip-0.20/gzip.xs

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---
abstract: 'Perl extension to provide a PerlIO layer to gzip/gunzip'
author:
 - 'Nicholas Clark <nwc10+perlio-gzip@colon.colondot.net>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.28, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: PerlIO-gzip
no_index:
 directory:
   - t
   - inc
requires: {}
version: '0.20'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /perlio-gzip-0-20-tar-gz/PerlIO-gzip-0.20/META.yml

1.615 python3-pycparser 2.20

1.615.1 Available under license :

pycparser -- A C parser in Python

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1.616 python3-hyperlink 21.0.0

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* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/lib/aarch64/setjmp.S
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/** @file
EFI_SHELL_PARAMETERS_PROTOCOL as defined in the UEFI Shell 2.0 specification.

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Building EFI Applications Using the GNU Toolchain

David Mosberger <davidm@hpl.hp.com>

23 September 1999

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Last update: 04/09/2007

* Introduction

This document has two parts: the first part describes how to develop
EFI applications for IA-64,x86 and x86_64 using the GNU toolchain and the EFI
development environment contained in this directory. The second part
describes some of the more subtle aspects of how this development
environment works.

* Part 1: Developing EFI Applications

** Prerequisites:

To develop x86 and x86_64 EFI applications, the following tools are needed:

- gcc-3.0 or newer (gcc 2.7.2 is NOT sufficient!)
  As of gnu-efi-3.0b, the Redhat 8.0 toolchain is known to work,
  but the Redhat 9.0 toolchain
is not currently supported.

- A version of "objcopy" that supports EFI applications. To
  check if your version includes EFI support, issue the
  command:

  objcopy --help

  Verify that the line "supported targets" contains the string
  "efi-app-ia32" and "efi-app-x86_64" and that the "-j" option
  accepts wildcards. The binutils release binutils-2.24
  supports Intel64 EFI and accepts wildcard section names.

- For debugging purposes, it's useful to have a version of
  "objdump" that supports EFI applications as well. This
  allows inspect and disassemble EFI binaries.

To develop IA-64 EFI applications, the following tools are needed:

- A version of gcc newer than July 30th 1999 (older versions
  had problems with generating position independent code).
  As of gnu-efi-3.0b, gcc-3.1 is known to work well.

- A version of "objcopy" that supports EFI applications. To
  check if your version includes EFI support, issue the
  command:

  objcopy --help

  Verify that
the line "supported targets" contains the string
  "efi-app-ia64" and that the "-j" option accepts wildcards.

- For debugging purposes, it's useful to have a version of
  "objdump" that supports EFI applications as well. This
  allows inspect and disassemble EFI binaries.

** Directory Structure

This EFI development environment contains the following

subdirectories:

inc: This directory contains the EFI-related include files. The
 files are taken from Intel's EFI source distribution, except
 that various fixes were applied to make it compile with the
 GNU toolchain.

lib: This directory contains the source code for Intel's EFI library.
 Again, the files are taken from Intel's EFI source
 distribution, with changes to make them compile with the GNU
 toolchain.

gnuefi: This directory contains the glue necessary to convert ELF64
 binaries to EFI binaries. Various runtime code bits, such as
 a self-relocator are included as well. This code has been
 contributed by the
 Hewlett-Packard Company and is distributed
 under the GNU GPL.

apps: This directory contains a few simple EFI test apps.

** Setup

It is necessary to edit the Makefile in the directory containing this
README file before EFI applications can be built. Specifically, you
should verify that macros CC, AS, LD, AR, RANLIB, and OBJCOPY point to
the appropriate compiler, assembler, linker, ar, and ranlib binaries,
respectively.

If you're working in a cross-development environment, be sure to set
macro ARCH to the desired target architecture ("ia32" for x86, "x86_64" for
x86_64 and "ia64" for IA-64). For convenience, this can also be done from
the make command line (e.g., "make ARCH=ia64").

** Building

To build the sample EFI applications provided in subdirectory "apps",
simply invoke "make" in the toplevel directory (the directory
containing this README file). This should build lib/libefi.a and
gnuefi/libgnuefi.a first and then all the EFI applications such as a
apps/t6.efi.

** Running

Just

copy the EFI application (e.g., apps/t6.efi) to the EFI filesystem, boot EFI, and then select "Invoke EFI application" to run the application you want to test. Alternatively, you can invoke the Intel-provided "nshell" application and then invoke your test binary via the command line interface that "nshell" provides.

** Writing Your Own EFI Application

Suppose you have your own EFI application in a file called "apps/myefiapp.c". To get this application built by the GNU EFI build environment, simply add "myefiapp.efi" to macro TARGETS in apps/Makefile. Once this is done, invoke "make" in the top level directory. This should result in EFI application apps/myefiapp.efi, ready for execution.

The GNU EFI build environment allows to write EFI applications as described in Intel's EFI documentation, except for two differences:

- The EFI application's entry point is always called "efi_main". The declaration of this routine is:

```
EFI_STATUS efi_main (EFI_HANDLE image,
EFI_SYSTEM_TABLE *systab);
```

- UNICODE string literals must be written as W2U(L"Sample String") instead of just L"Sample String". The W2U() macro is defined in <efilib.h>. This header file also declares the function W2UCpy() which allows to convert a wide string into a UNICODE string and store the result in a programmer-supplied buffer.

- Calls to EFI services should be made via uefi_call_wrapper(). This ensures appropriate parameter passing for the architecture.

* Part 2: Inner Workings

WARNING: This part contains all the gory detail of how the GNU EFI toolchain works. Normal users do not have to worry about such details. Reading this part incurs a definite risk of inducing severe headaches or other maladies.

The basic idea behind the GNU EFI build environment is to use the GNU toolchain to build a normal ELF binary that, at the end, is converted to an EFI binary. EFI binaries are really just PE32+ binaries. PE stands for "Portable Executable" and is the object file format Microsoft is using on its Windows platforms. PE is basically the COFF

object file format with an MS-DOS2.0 compatible header slapped on in
front of it. The "32" in PE32+ stands for 32 bits, meaning that PE32
is a 32-bit object file format. The plus in "PE32+" indicates that
this format has been hacked to allow loading a 4GB binary anywhere in
a 64-bit address space (unlike ELF64, however, this is not a full
64-bit object file format because the entire binary cannot span more
than 4GB of address space). EFI binaries are plain PE32+ binaries
except that the "subsystem id" differs from normal Windows binaries.
There are two flavors of EFI binaries: "applications" and "drivers"
and each has there own subsystem id and are identical otherwise. At
present, the GNU EFI build environment supports the building of EFI
applications only, though it would be trivial to generate drivers, as
the only difference is the subsystem id. For more details on PE32+,
see the spec at

http://msdn.microsoft.com/library/specs/msdn_pecoff.htm.

In
theory, converting a suitable ELF64 binary to PE32+ is easy and
could be accomplished with the "objcopy" utility by specifying option
--target=efi-app-ia32 (x86) or --target=efi-app-ia64 (IA-64). But
life never is that easy, so here some complicating factors:

(1) COFF sections are very different from ELF sections.

ELF binaries distinguish between program headers and sections.
The program headers describe the memory segments that need to
be loaded/initialized, whereas the sections describe what
constitutes those segments. In COFF (and therefore PE32+) no
such distinction is made. Thus, COFF sections need to be page
aligned and have a size that is a multiple of the page size
(4KB for EFI), whereas ELF allows sections at arbitrary
addresses and with arbitrary sizes.

(2) EFI binaries should be relocatable.

Since EFI binaries are executed in physical mode, EFI cannot
guarantee that a given binary can be loaded at
its preferred
address. EFI does _try_ to load a binary at it's preferred
address, but if it can't do so, it will load it at another
address and then relocate the binary using the contents of the
.reloc section.

(3) On IA-64, the EFI entry point needs to point to a function
descriptor, not to the code address of the entry point.

(4) The EFI specification assumes that wide characters use UNICODE

encoding.

ANSI C does not specify the size or encoding that a wide
character uses. These choices are "implementation defined".
On most UNIX systems, the GNU toolchain uses a wchar_t that is
4 bytes in size. The encoding used for such characters is
(mostly) UCS4.

In the following sections, we address how the GNU EFI build
environment addresses each of these issues.

** (1) Accommodating COFF Sections

In order to satisfy the COFF constraint of page-sized and page-aligned
sections, the GNU EFI build environment uses the special linker script
in gnuefi/elf_$(ARCH)_efi.lds
where $(ARCH) is the target architecture
("ia32" for x86, "x86_64" for x86_64 and "ia64" for IA-64).
This script is set up to create only eight COFF section, each page aligned
and page sized.These eight sections are used to group together the much
greater number of sections that are typically present in ELF object files.
Specifically:

.hash (and/or .gnu.hash)
Collects the ELF .hash info (this section _must_ be the first
section in order to build a shared object file; the section is
not actually loaded or used at runtime).

GNU binutils provides a mechanism to generate different hash info
via --hash-style=<sysv|gnu|both> option. In this case output
shared object will contain .hash section, .gnu.hash section or
both. In order to generate correct output linker script preserves
both types of hash sections.

.text
Collects all sections containing executable code.

.data
Collects read-only and read-write data, literal string data,
global offset tables, the uninitialized data
segment (bss) and
various other sections containing data.

The reason read-only data is placed here instead of the in
.text is to make it possible to disassemble the .text section
without getting garbage due to read-only data. Besides, since
EFI binaries execute in physical mode, differences in page

protection do not matter.

The reason the uninitialized data is placed in this section is
that the EFI loader appears to be unable to handle sections
that are allocated but not loaded from the binary.

.dynamic, .dynsym, .rela, .rel, .reloc
These sections contains the dynamic information necessary to
self-relocate the binary (see below).

A couple of more points worth noting about the linker script:

o On IA-64, the global pointer symbol (__gp) needs to be placed such
that the _entire_ EFI binary can be addressed using the signed
22-bit offset that the "addl" instruction affords. Specifically,
this means that __gp should be placed at ImageBase + 0x200000.
Strictly
speaking, only a couple of symbols need to be addressable
in this fashion, so with some care it should be possible to build
binaries much larger than 4MB. To get a list of symbols that need
to be addressable in this fashion, grep the assembly files in
directory gnuefi for the string "@gprel".

o The link address (ImageBase) of the binary is (arbitrarily) set to
zero. This could be set to something larger to increase the chance
of EFI being able to load the binary without requiring relocation.
However, a start address of 0 makes debugging a wee bit easier
(great for those of us who can add, but not subtract... ;-).

o The relocation related sections (.dynamic, .rel, .rela, .reloc)
cannot be placed inside .data because some tools in the GNU
toolchain rely on the existence of these sections.

o Some sections in the ELF binary intentionally get dropped when
building the EFI binary. Particularly noteworthy are the dynamic
relocation sections for
the .plabel and .reloc sections. It would
be _wrong_ to include these sections in the EFI binary because it
would result in .reloc and .plabel being relocated twice (once by
the EFI loader and once by the self-relocator; see below for a
description of the latter). Specifically, only the sections
mentioned with the -j option in the final "objcopy" command are
retained in the EFI binary (see Make.rules).

** (2) Building Relocatable Binaries

ELF binaries are normally linked for a fixed load address and are thus

not relocatable. The only kind of ELF object that is relocatable are shared objects ("shared libraries"). However, even those objects are usually not completely position independent and therefore require runtime relocation by the dynamic loader. For example, IA-64 binaries normally require relocation of the global offset table.

The approach to building relocatable binaries in the GNU EFI build environment is to:

(a) build an ELF shared object

(b) link
it together with a self-relocator that takes care of
applying the dynamic relocations that may be present in the
ELF shared object

(c) convert the resulting image to an EFI binary

The self-relocator is of course architecture dependent. The x86 version can be found in gnuefi/reloc_ia32.c, the x86_64 version can be found in gnuefi/reloc_x86_64.c and the IA-64 version can be found in gnuefi/reloc_ia64.S.

The self-relocator operates as follows: the startup code invokes it right after EFI has handed off control to the EFI binary at symbol "_start". Upon activation, the self-relocator searches the .dynamic section (whose starting address is given by symbol _DYNAMIC) for the dynamic relocation information, which can be found in the DT_REL, DT_RELSZ, and DT_RELENT entries of the dynamic table (DT_RELA, DT_RELASZ, and DT_RELAENT in the case of rela relocations, as is the case for IA-64). The dynamic relocation information points to the ELF relocation table. Once this table is
found, the self-relocator walks
through it, applying each relocation one by one. Since the EFI binaries are fully resolved shared objects, only a subset of all possible relocations need to be supported. Specifically, on x86 only the R_386_RELATIVE relocation is needed. On IA-64, the relocations R_IA64_DIR64LSB, R_IA64_REL64LSB, and R_IA64_FPTR64LSB are needed. Note that the R_IA64_FPTR64LSB relocation requires access to the dynamic symbol table. This is why the .dynsym section is included in the EFI binary. Another complication is that this relocation requires memory to hold the function descriptors (aka "procedure labels" or "plabels"). Each function descriptor uses 16 bytes of memory. The IA-64 self-relocator currently reserves a static memory area that can hold 100 of these descriptors. If the self-relocator runs out of space, it causes the EFI binary to fail with error code 5 (EFI_BUFFER_TOO_SMALL). When this happens, the manifest constant MAX_FUNCTION_DESCRIPTORS in gnuefi/reloc_ia64.S

should be increased
and the application recompiled. An easy way to count the number of function descriptors required by an EFI application is to run the command:

```
objdump --dynamic-reloc example.so | fgrep FPTR64 | wc -l
```

assuming "example" is the name of the desired EFI application.

** (3) Creating the Function Descriptor for the IA-64 EFI Binaries

As mentioned above, the IA-64 PE32+ format assumes that the entry point of the binary is a function descriptor. A function descriptors consists of two double words: the first one is the code entry point and the second is the global pointer that should be loaded before calling the entry point. Since the ELF toolchain doesn't know how to generate a function descriptor for the entry point, the startup code in gnuefi/crt0-efi-ia64.S crafts one manually by with the code:

```
        .section .plabel, "a"
_start_plabel:
        data8   _start
        data8   __gp
```

this places the procedure label for entry point _start in
a section
called ".plabel". Now, the only problem is that _start and __gp need to be relocated _before_ EFI hands control over to the EFI binary. Fortunately, PE32+ defines a section called ".reloc" that can achieve this. Thus, in addition to manually crafting the function descriptor, the startup code also crafts a ".reloc" section that has will cause the EFI loader to relocate the function descriptor before handing over control to the EFI binary (again, see the PECOFF spec mentioned above for details).

A final question may be why .plabel and .reloc need to go in their own COFF sections. The answer is simply: we need to be able to discard the relocation entries that are generated for these sections. By placing them in these sections, the relocations end up in sections ".rela.plabel" and ".rela.reloc" which makes it easy to filter them out in the filter script. Also, the ".reloc" section needs to be in its own section so that the objcopy program can recognize it and can create the
correct directory entries in the PE32+ binary.

** (4) Convenient and Portable Generation of UNICODE String Literals

As of gnu-efi-3.0, we make use (and somewhat abuse) the gcc option
that forces wide characters (WCHAR_T) to use short integers (2 bytes)
instead of integers (4 bytes). This way we match the Unicode character
size. By abuse, we mean that we rely on the fact that the regular ASCII
characters are encoded the same way between (short) wide characters
and Unicode and basically only use the first byte. This allows us
to just use them interchangeably.

The gcc option to force short wide characters is : -fshort-wchar

  * * * The End * * *

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* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/lib/mips64el/math.c
*
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* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/Makefile
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```
/** @file
 SHELL_INTERFACE_PROTOCOL from EDK shell (no spec).

 Shell Interface - additional information (over image_info) provided
```

to an application started by the shell.

ConIo provides a file-style interface to the console.

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* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/gnuefi/crt0-efi-ia32.S
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* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/inc/protocol/efidbg.h
* /gnu-efi-3-0-12-tar-bz2/gnu-efi-3.0.12/inc/protocol/ia64/eficontext.h

1.621 libatomic-ops 7.6.10

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1.622 python3-pyhamcrest 2.0.2

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1.623 diffstat 1.64

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1.624 libxml-parser-perl 2.46

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---
abstract: 'A perl module for parsing XML documents'
author:
 - 'Clark Cooper (coopercc@netheaven.com)'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
 warnings: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: XML-Parser
no_index:
 directory:
   - t
   - inc

```
requires:
 LWP::UserAgent: '0'
 perl: '5.00405'
resources:
 bugtracker: https://github.com/toddr/XML-Parser/issues
 repository: http://github.com/toddr/XML-Parser
version: '2.46'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/META.yml
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# LWPExternEnt.pl
#
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package XML::Parser;

use URI;
use URI::file;
use LWP::UserAgent;

##
## Note that this external entity handler reads the entire entity into
## memory, so it will choke on huge ones. It would be really nice if
## LWP::UserAgent optionally returned us an IO::Handle.
##

sub lwp_ext_ent_handler {
 my ($xp, $base, $sys) = @_;  # We don't use public id

 my $uri;

 if (defined $base) {
   # Base may have been set by parsefile, which is agnostic about
   # whether its a file or URI.
   my $base_uri = new URI($base);
   unless (defined $base_uri->scheme) {
     $base_uri = URI->new_abs($base_uri, URI::file->cwd);
   }

   $uri = URI->new_abs($sys, $base_uri);
 }
```

```
else {
  $uri = new URI($sys);
  unless (defined $uri->scheme)
{
    $uri = URI->new_abs($uri, URI::file->cwd);
  }
}

my $ua = $xp->{_lwpagent};
unless (defined $ua) {
  $ua = $xp->{_lwpagent} = new LWP::UserAgent();
  $ua->env_proxy();
}

my $req = new HTTP::Request('GET', $uri);

my $res = $ua->request($req);
if ($res->is_error) {
  $xp->{ErrorMessage} .= "\n" . $res->status_line . " $uri";
  return undef;
}

$xp->{_BaseStack} ||= [];
push(@{$xp->{_BaseStack}}, $base);

$xp->base($uri);

return $res->content;
}  # End lwp_ext_ent_handler

sub lwp_ext_ent_cleanup {
 my ($xp) = @_;

 $xp->base(pop(@{$xp->{_BaseStack}}));
}  # End lwp_ext_ent_cleanup

1;
```

Found in path(s):
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```
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**
```

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*/

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* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/Parser.pm
* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/samples/canonical
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<!ENTITY   rights "All rights reserved" >
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* /xml-parser-2-46-1-tar-gz/XML-Parser-2.46/samples/REC-xml-19980210.xml

1.625 cryptodev-linux 1.12

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1.626 opkg-utils 0.4.3

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WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format
video encoder. Only kernel version 2.6.x is supported. The video stream
is available through the Video4Linux2 API and the audio stream is available
through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG - Support for hot-pluggable devices
CONFIG_MODULES - Enable loadable module support
CONFIG_KMOD - Automatic kernel module loading
CONFIG_FW_LOADER - Hotplug firmware loading support
CONFIG_I2C - I2C support
CONFIG_VIDEO_DEV - Video For Linux
CONFIG_SOUND - Sound card support
CONFIG_SND - Advanced Linux Sound Architecture
CONFIG_USB - Support for Host-side USB
CONFIG_USB_DEVICEFS - USB device filesystem
CONFIG_USB_EHCI_HCD - EHCI

HCD (USB 2.0) support

Additionally, to use the example application, the following options need to
be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS - OSS Mixer API
CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed.
These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>.
Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using
fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

$ make

in the top-level directory of the driver kit. First the kernel modules
will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the
currently-running kernel, or if the module should be built for a kernel
other than the currently-running kernel, an additional
parameter will need
to be passed to make to specify the appropriate kernel source directory:

$ make KERNELSRC=/usr/src/linux-2.6.10-custom3

Once the compile completes, the driver and firmware files should be
installed by running:

$ make install

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra"
and the firmware files will be placed in the appropriate hotplug firmware
directory, usually /lib/firmware. In addition, USB maps and scripts will
be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB
control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional

configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about
the local TV standards be passed to the driver in order
to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are
several stereo audio carrier systems in use, including NICAM and
three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10

SECAM L Mono (default) 11
SECAM L NICAM
12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with
only compressed formats supported, the new driver
should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in

/var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available
devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The
V4L2 device implemented by the driver provides a standard compressed
format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not
  be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that
  expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only.
  Program Stream (PS), Transport Stream (TS) and Packetized Elementary
  Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while
  the encoder is active.

* The audio capture device only functions when the video encoder is
  actively capturing video. Attempts to read from the audio device when
  the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel
16-bit
  little-endian PCM, delivered through the ALSA system. No audio
  compression is implemented in the hardware. ALSA may convert to other
  uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard
features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl
with a pointer to a struct go7007_comp_params. If the driver is not

set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32 gop_size — The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.

__u32 max_b_frames — The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)

enum go7007_aspect_ratio aspect_ratio — The aspect ratio to be encoded in the meta-data of the compressed format.

Choices are:

GO7007_ASPECT_RATIO_1_1
GO7007_ASPECT_RATIO_4_3_NTSC
GO7007_ASPECT_RATIO_4_3_PAL
GO7007_ASPECT_RATIO_16_9_NTSC
GO7007_ASPECT_RATIO_16_9_PAL

__u32 flags — Bit-wise OR of control flags (below)

Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP — Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

GO7007_COMP_OMIT_SEQ_HEADER — Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params.
If the driver is not
set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
mpeg_video_standard The MPEG video standard in which to compress the video.

Choices are:
GO7007_MPEG_VIDEO_MPEG1

GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

__u32 flags Bit-wise OR of control flags (below)

__u32 pali The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:
GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1

GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3

GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and bitrate control settings to comply

with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The
  install script should automatically detect whether the old hotplug
  scripts or the new udev rules should be used. To force the use of
  hotplug, run "make install USE_UDEV=n". To force the use of udev, run
  "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app
  for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can
  cause buffer overruns and frame drops, even at low framerates, due to
  inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height
  values of 96,
 128, 160, 192, 256, 320, and 384 do not work in NTSC mode.
  All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio
  or the TV tuner.

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```
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*
* $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/
```

File: LLM_sp_sha2.c

```
/*
 * FILE:    sha2.h
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*
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*
* $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/
File: LLM_sp_sha2.h

==========

2.

/* utility to create the register check tables
* this includes inlined list.h safe for userspace.
*
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*
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Glisse
* Dave Airlie
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*/
File: comm_lib.h

==========

3.

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* ==
*
*/
File Name list: aes.h, aes_locl.h

==========

4.

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */
/**
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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*/
File: aes_core.c

==========

5.

/*==========

EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why
-------- --- ----------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open
source.

==========*/

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*/
File: aes.h

/*==========

EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $

when who what, where, why
-------- --- --
11/12/04 rv changes to correct LINT errors
02/02/04
  rwh Small mods to open source.

===*/
/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */

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*/
File: aes_tab.h

==========
6.
==========
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#
#
#
================================================================================
File: Conftest.py

================================================================================
7.
================================================================================
/ ***
*
* Fowler/Noll/Vo- hash
*
* The basis of this hash algorithm was taken from an idea sent
* as reviewer comments to the IEEE POSIX P1003.2 committee by:
*
*      Phong Vo (http://www.research.att.com/info/kpv/)
*      Glenn Fowler (http://www.research.att.com/~gsf/)
*
* In a subsequent ballot round:
*
*      Landon Curt Noll (http://www.isthe.com/chongo/)
*
* improved on their algorithm.  Some people tried this hash
* and found that it worked rather well.  In an EMail message
* to Landon, they named it the ``Fowler/Noll/Vo" or FNV hash.
*
* FNV hashes are designed to be fast while maintaining a low
* collision rate. The FNV speed allows one to quickly hash
 lots
* of data while maintaining a reasonable collision rate.  See:
*
*      http://www.isthe.com/chongo/tech/comp/fnv/index.html
*
* for more details as well as other forms of the FNV hash.
*
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*
* By:
* chongo <Landon Curt Noll> /\oo/\
*   http://www.isthe.com/chongo/
*
* Share and Enjoy! :-)
*/
File: fm_fnv_hash.h, fm_fnv_hash.c

==========
8.
==========

/*
 * $Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 $
* $DateTime: 2013/07/24 11:35:54 $
*/

/* $OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp $ */
/* $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $ */

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*
* @(#)string.h 5.10 (Berkeley) 3/9/91
*/
File: stringl.h

==========

9.

==========

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/nan/sha2.c

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* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
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*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/crypto.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/wpa.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/supplicant/mywpa_ft.h

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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/romexport/AR6320/hw.3/include/aes_wrap
.h

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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/romexport/AR6320/hw.3/include/seccommon.h

/*
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*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^32 term is "implied"; the LSB is the
* X^31 term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1
*
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each
 low-bit to hight-bit; and the result is transmission bit
* by bit from highest- to lowest-order term without requiring any bit
* shuffling on our part. Reception works similarly
*
* The feedback terms table consists of 256, 32-bit entries. Notes
*
*   The table can be generated at runtime if desired; code to do so
*   is shown later. It might not be obvious, but the feedback
*   terms simply represent the results of eight shift/xor opera
*   tions for all combinations of data and CRC register values
*

```
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler by
*      using byte-swap instructions
*      polynomial $edb88320
*
*
* CRC32 code derived from work by Gary S. Brown.
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/2.0/src/mgmt_txrx/ieee_crc32.c


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

```
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1
 $
//
p4://qctp411.qualcomm.com/components/rel/wlanfw_cmn.cnss/1.0.0/include/queue.h


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// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
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```
*      @(#)if_llc.h    8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
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// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
//

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*
* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/if_llc.h

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/*
* AES (Rijndael) cipher

```
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
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*/

/*
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/misc/crypto/aes.c
```

```
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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
*
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/misc/crypto/aes_wrap.c

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/*
```

* SHA1 hash implementation and interface functions
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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/src/wmi/wmi_tlv_platform.c

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p4://qctp411.qualcomm.com/components/rel/wlanfw_protocol_cmn.cnss/1.0.0/include/qvit/qvit_init_api.h

```
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*/
```

p4://qctp411.qualcomm.com/components/rel/wlanfw_cmn.cnss/1.0.0/fw_interface/include/wmi_version_whitelist.c

```
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```

```
//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/misc/crypto/md5.c#3 $
//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest.  This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// Equivalent code is available from RSA Data Security, Inc.
// This code has been tested against that, and is equivalent,
// except that you don't need to include two pages of legalese
// with every copy.
//
// To compute the message digest of a chunk of bytes, declare an
// MD5Context structure, pass it
 to MD5Init, call MD5Update as
// needed on buffers full of bytes, and then call MD5Final, which
// will fill a supplied 16-byte array with the digest.
//
```

p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/misc/crypto/md5.c

```
/*===========================================================================
 @file secrsa_encryption.c

  This file provides RSA PKCS #1 v1.5 encryption/decryption implementation.
 ===========================================================================

                      EDIT HISTORY FOR FILE
 $Header:
//components/dev/wlanfw.cnss/1.0.1/dennis.rome_emu_es2_rel_fw/cnss_proc/wlan/fw/target/src/misc/binsig/rsa.c#
2 $
 $DateTime: 2013/10/21 08:09:59 $
 $Author: changhon $

 when       who     what, where, why
 --------   ---     ----------------------------------------------------------
 04/11/11   qxu     initial version

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 ===========================================================================*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/misc/binsig/rsa.c

/*
 ===========================================================================
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/cil.h $
* $Revision: #3 $
* $Date: 2013/08/06 $
* $Change: 2161544 $
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* ========== */

p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/include/cil.h

/* ==========
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/dev.h $
* $Revision: #3 $
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* ========== */

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```
/* ========================================================================
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/pcd.h $
* $Revision: #3 $
* $Date: 2013/08/06 $
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p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/include/pcd.h

/* ========================================================================
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/soc/usbhwcore/drv/snps/cil.c $
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* $Change: 2161544 $
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* == */

/** @file
*
* The Core Interface Layer provides basic services for accessing and
* managing the DWC_usb3 hardware. These services are used by both the
* Peripheral Controller Driver and the On The Go Driver.
*
* The CIL manages the memory map for the core so that the PCD and OTG drivers
* don't have to do this separately. The CIL also performs basic services
* that are not specific to either the Device or OTG modes of operation.
* These services include all functionality that requires specific
* knowledge of the CSR layout or the DMA descriptor (TRB) layout. Also
* included are services for invoking each of the commands provided by
* the DGCMD and DEPCMD registers (see
 the "Control and Status Registers"
* chapter of the USB3 controller databook for details).
*
* The Core Interface Layer has the following requirements:
* - Provides basic controller operations.
* - Minimal use of OS services.
* - The OS services used will be abstracted by using inline functions
*   or macros.
*
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/soc/usbhwcore/drv/snps/cil.c

```
/* ========================================================================
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/soc/usbhwcore/drv/snps/pcd_intr.c $
* $Revision: #3 $
* $Date: 2013/08/06 $
* $Change: 2161544 $
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* ======================================================================== */

/** @file
* This file contains the implementation of the PCD Interrupt handlers.
*
* The PCD handles the device interrupts. Many conditions can cause a
* device interrupt. When an interrupt occurs, the device interrupt
* service routine determines the cause of the interrupt and
* dispatches handling to the appropriate routine. These interrupt
* handling routines are described below.
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/soc/usbhwcore/drv/snps/pcd_intr.c

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

```
 * $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/os_dev.h $
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/* ========================================================================
 * $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/soc/usbhwcore/drv/snps/cil_intr.c $
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*
 * The Core Interface Layer provides basic services for accessing and
* managing the DWC_usb3 hardware. These services are used by both the
* Peripheral Controller Driver and the On The Go Driver.
*
* This file contains the common interrupt handling functions.
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/soc/usbhwcore/drv/snps/cil_intr.c

/* ==
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/soc/usbhwcore/drv/snps/pcd.c $
* $Revision: #3 $
* $Date: 2013/08/06 $
* $Change: 2161544 $
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* == */

/** @file
* This file implements the Peripheral Controller Driver.
*
* The Peripheral Controller Driver (PCD) is responsible for translating
* requests from the Function Driver into the appropriate actions on the
* DWC_usb3 controller. It isolates the Function Driver from the specifics
* of the controller by providing an API to the Function Driver.
*
* The Peripheral Controller Driver for Linux will implement the Gadget API,
* so that the existing Gadget drivers can be used. (Gadget Driver is the
* Linux terminology for a Function Driver.)
*
* The Linux Gadget API is defined in the header file
* <code><linux/usb/gadget.h></code>.
The USB EP operations API is defined
* in the structure <code>usb_ep_ops</code> and the USB Controller API is
* defined in the structure <code>usb_gadget_ops</code>.
*
* An important function of the PCD is managing interrupts generated by the
* DWC_usb3 controller. The implementation of the DWC_usb3 device mode
* interrupt service routines is in pcd_intr.c.
*/
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/src/soc/usbhwcore/drv/snps/pcd.c

/* ==
* $File: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/include/usb3_hw.h $
* $Revision: #3 $
* $Date: 2013/08/06 $
* $Change: 2161544 $
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* ========== */
p4://qctp411.qualcomm.com/components/rel/wlanfw_mac_core.cnss/1.0/include/usb3_hw.h

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//
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//

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/*
 * AES-based functions
 *
 * - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
 * - One-Key CBC MAC (OMAC1) hash with AES-128
 * - AES-128 CTR mode encryption
 * - AES-128 EAX mode encryption/decryption
 * - AES-128 CBC
 *
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/*
 * wpa_supplicant/hostapd / common helper functions, etc.
```

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 *
 * This file defines the cryptographic functions that need to be implemented
 * for wpa_supplicant and hostapd. When TLS
 is not used, internal
 * implementation of MD5, SHA1, and AES is used and no external libraries are
 * required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
 * crypto library used by the TLS implementation is expected to be used for
 * non-TLS needs, too, in order to save space by not implementing these
```

```
 * functions twice.
 *
 * Wrapper code for using each crypto library is in its own file (crypto*.c)
 * and one of these files is build and linked in to provide the functions
 * defined here.
*/
```

==========

```
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$
//

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==========

File:
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/*
* Author: Malcolm
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* Author: Carlos Dyonisio <medaglia@ok-labs.com>
*/
==========

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/*
* Author: Malcolm Purvis <malcolmp@ok-labs.com>
*
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File: htt_common.h

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```
==========================================================================
File: wlan_defs.h

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File:
 wlan_nan_msg_common.h

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File: wlan_nan_msg_common_v2.h

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File: wlan_nan_msg.h

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File: wmi_services.h

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File: wmi_tlv_defs.h

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File:
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File: wmi_unified.h

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File: wmi_unified_vendor.h

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File: wmi_version.h

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File: athdefs.h

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File: dbglog_id.h

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File: ipv4.h

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File: ipv6.h

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File: queue.h

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File: stail_queue.h

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//
//  @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
// $Id: //components/rel/wlanfw_cmn.cnss/1.0/cnss_proc/wlan/fwcommon/include/queue.h#1 $
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File:
 targaddrs.h

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* Galois/Counter Mode (GCM) and GMAC with AES
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* AES-based functions
*
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* -
AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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==
File: sha2.h

/*
* FILE: sha2.h
* AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/

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* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/
================================================================================
File: wal_dfs.h


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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_ethersubr.h#3 $
//

==========

File: wal_dfs.c

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File: ieee_crc32.c

/*
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* code or tables extracted from it, as desired without
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*
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^32 term is "implied"; the LSB is the
* X^31 term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1
*
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way

```
*  we hand it to the UART in the order low-byte to high-byte; the UART
*  sends each low-bit
 to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes
*
*      The table can be generated at runtime if desired; code to do so
*      is shown later.  It might not be obvious, but the feedback
*      terms simply represent the results of eight shift/xor opera
*      tions for all combinations of data and CRC register values
*
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler by
*      using byte-swap instructions
*      polynomial $edb88320
*
*
* CRC32 code derived from work by Gary S. Brown.
*/
```

```
==========================================================================
File: aes.c

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/*
* AES (Rijndael) cipher
*
* Modifications to public domain implementation:
* - support only 128-bit keys
* - cleanup
* - use C pre-processor to make it easier to change S table access
* - added option (AES_SMALL_TABLES) for reducing code size by about 8 kB at
*   cost of reduced throughput (quite small difference on Pentium 4,
*   10-25% when using -O1 or -O2 optimization)
*
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*/

/*
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael
 cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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File: aes_gcm.c

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* Galois/Counter Mode (GCM) and GMAC with AES
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File: aes_wrap.c

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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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* wpa_supplicant/hostapd / common helper functions, etc.
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File: md5.c

```
//
//
 $Id: //depot/sw/branches/qca_main_wifi2.0/perf_pwr_offload/drivers/target/src/misc/crypto/md5.c#1 $
//
// This code implements the MD5 message-digest algorithm.
// The algorithm is due to Ron Rivest.  This code was
// written by Colin Plumb in 1993, no copyright is claimed.
// This code is in the public domain; do with it what you wish.
//
// Equivalent code is available from RSA Data Security, Inc.
// This code has been tested against that, and is equivalent,
// except that you don't need to include two pages of legalese
// with every copy.
//
// To compute the message digest of a chunk of bytes, declare an
// MD5Context structure, pass it to MD5Init, call MD5Update as
// needed on buffers full of bytes, and then call MD5Final, which
// will fill a supplied 16-byte array with the digest.
//
```

```
================================================================================
File: sha1.c
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File: wmi_tlv_helper.c

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File: hca_HwComponentBbLithium_dfs_phyerr_tlv.cpp

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File: phyUtilsStrlcpy.c

/* $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert Exp $ */

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File: dfs_interface.h

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//
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19 thorpej Exp $
// $Id: //components/rel/wlanfw.cnss/1.0.1/cnss_proc/wlan/fw/target/src/wlan/proto/include/if_llc.h#3 $
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* @(#)if_llc.h 8.1 (Berkeley) 6/10/93
* $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
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*/
==========
File: sha2.c

/*
* FILE: sha2.c
* AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/
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File: wlan_p2p_listen_offload.c

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* Wi-Fi Protected Setup - attribute parsing
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==========
File: wlan_p2p_listen_offload_int.c

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File: wlan_p2p_listen_offload_int.h

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==========

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```
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File: apf_interpreter.c

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File: apf_interpreter.h

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File: wlan_p2p_disc_offload_internal.h

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File: crypto.h

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* This file defines the cryptographic
 functions that need to be implemented
* for wpa_supplicant and hostapd. When TLS is not used, internal

* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
* and one of these files is build and linked in to provide the functions
* defined here.
*/

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File: fils.c

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File:
 mywpa_common.c

```
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File: mywpa_common.h

```
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* WPA definitions shared between hostapd and wpa_supplicant
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File: sha256-kdf.c

/*

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File: sha384_i.h

```
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File: sha384-internal.c

```
/*
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File:
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/*
* SHA384-based KDF (IEEE 802.11ac)
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File: sha512_i.h

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/* zlib.h -- interface of the 'zlib' general purpose compression
 library
 version 1.2.3, July 18th, 2005

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 Jean-loup Gailly   Mark Adler
 jloup@gzip.org
         madler@alumni.caltech.edu

 The data format used by the zlib library is described by RFCs (Request for
 Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
 (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

//
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//
//
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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```
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
 as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

```
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```

```
*/

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

/*-
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*  code or tables extracted from it, as desired without restriction.
*
*  First, the polynomial itself and its table of feedback terms.  The
*  polynomial is
*  X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
*
*  Note that we take it "backwards" and put the highest-order term in
*  the lowest-order bit.  The X^32 term is "implied"; the LSB is the
*  X^31 term, etc.  The X^0 term (usually shown as "+1") results in
*  the MSB being 1
*
*  Note that the usual hardware shift register implementation, which
*  is what we're using (we're merely optimizing it by doing eight-bit
*  chunks at a time) shifts bits into the lowest-order term.  In our
*  implementation, that means shifting towards the right.  Why do we
*  do it this way?  Because the calculated CRC must be transmitted in
*  order from highest-order
 term to lowest-order term.  UARTs transmit
*  characters in order from LSB to MSB.  By storing the CRC this way
*  we hand it to the UART in the order low-byte to high-byte; the UART
*  sends each low-bit to hight-bit; and the result is transmission bit
*  by bit from highest- to lowest-order term without requiring any bit
*  shuffling on our part.  Reception works similarly
*
*  The feedback terms table consists of 256, 32-bit entries.  Notes
*
*      The table can be generated at runtime if desired; code to do so
*      is shown later.  It might not be obvious, but the feedback
*      terms simply represent the results of eight shift/xor opera
*      tions for all combinations of data and CRC register values
*
*      The values must be right-shifted by eight bits by the "updcrc
*      logic; the shift must be unsigned (bring in zeroes).  On some
*      hardware you could probably optimize the shift in assembler by
*      using byte-swap instructions
*      polynomial
 $edb88320
*


--------------------------------------------------------------------------------
```

```
/*
 The AES algorithm Rijndael implemented for block and key sizes of 128,
 192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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 about the use to which it is being put. I am grateful to Frank Yellin
 for some ideas that are used in this implementation.

 Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

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

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* hash_32 - 32 bit Fowler/Noll/Vo hash code
*
* Fowler/Noll/Vo hash
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*
---------------------------------------------------------------------------
/*
* sha1.c
*
* Originally witten by Steve Reid <steve@edmweb.com>
*
* Modified by Aaron D. Gifford <agifford@infowest.com>
*
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*
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*/

/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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* SHA1 hash implementation and interface functions
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```
*/
--------------------------------------------------------------------------
/*
* hmac_sha1.c
*
* Version
 1.0.0
*
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Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
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// $NetBSD: if_llc.h,v 1.12 1999/11/19 20:41:19
 thorpej Exp $
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*
*  @(#)if_llc.h    8.1 (Berkeley) 6/10/93
 * $FreeBSD: src/sys/net/if_llc.h,v 1.9 2002/09/23 06:25:08 alfred Exp $
*/
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wlan/protocol/include/if_ethersubr.h#1

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wlan/protocol/support/lz77/lz.h#1
wlan/protocol/support/lz77/lz.c#1

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wlan/mac_core/tests/serflash/flashprog/uncompr.c#1

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//
// @(#)queue.h 8.5 (Berkeley) 8/20/94
// $FreeBSD: src/sys/sys/queue.h,v 1.58 2004/04/07 04:19:49 imp Exp $
//

wlan/include/queue.h#1

==========
==========
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* SHA1 hash implementation and interface functions
* Copyright (c) 2003-2005, Jouni Malinen <jkmaline@cc.hut.fi>
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wlan/mac_core/include/sha1.h
wlan/mac_core/romexport/AR900B/hw.1/include/sha1.h
wlan/mac_core/romexport/AR900B/hw.2/include/sha1.h

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

/*
* FILE: sha2.h
* AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/
*
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*
* $Id: //depot/sw/branches/qca_rome_main/perf_pwr_offload/drivers/target/include/sha2.h#1 $
*/

wlan/mac_core/romexport/AR900B/hw.1/include/sha2.h
wlan/mac_core/romexport/AR900B/hw.2/include/sha2.h

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

/*
 * AES-based functions
*
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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wlan/mac_core/include/aes_wrap.h
wlan/mac_core/romexport/AR900B/hw.1/include/aes_wrap.h
wlan/mac_core/romexport/AR900B/hw.2/include/aes_wrap.h

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==========
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* MD5 hash implementation and interface functions
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*/

wlan/mac_core/romexport/AR900B/hw.1/include/md5.h
wlan/mac_core/romexport/AR900B/hw.2/include/md5.h

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==========
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/*
 * Common helper macros, etc.
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*
*/

wlan/mac_core/romexport/AR900B/hw.1/include/seccommon.h
wlan/mac_core/romexport/AR900B/hw.2/include/seccommon.h

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*/

/* Modified by Synopsys, Inc, 12/12/2007 */

wlan/mac_core/include/usb.h
wlan/mac_core/romexport/AR900B/hw.1/include/usb.h
wlan/mac_core/romexport/AR900B/hw.2/include/usb.h

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

/*
 ==========
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* ========== */

wlan/mac_core/include/cil.h
wlan/mac_core/romexport/AR900B/hw.1/include/cil.h
wlan/mac_core/romexport/AR900B/hw.2/include/cil.h
wlan/mac_core/include/dev.h
wlan/mac_core/romexport/AR900B/hw.1/include/dev.h
wlan/mac_core/romexport/AR900B/hw.2/include/dev.h
wlan/mac_core/include/os_dev.h
wlan/mac_core/romexport/AR900B/hw.1/include/os_dev.h

wlan/mac_core/romexport/AR900B/hw.2/include/os_dev.h
wlan/mac_core/include/usb3_hw.h
wlan/mac_core/romexport/AR900B/hw.1/include/usb3_hw.h
wlan/mac_core/romexport/AR900B/hw.2/include/usb3_hw.h
wlan/mac_core/include/pcd.h
wlan/mac_core/romexport/AR900B/hw.1/include/pcd.h
wlan/mac_core/romexport/AR900B/hw.2/include/pcd.h

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

```
/*
 *  $Header: //source/qcom/qct/core/api/kernel/main/latest/libstd/stringl/stringl.h#13 $
*  $DateTime: 2013/07/24 11:35:54 $
*/

/*  $OpenBSD: string.h,v 1.17 2006/01/06 18:53:04 millert Exp $ */
/*  $NetBSD: string.h,v 1.6 1994/10/26 00:56:30 cgd Exp $   */

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```

```
*
*  @(#)string.h    5.10 (Berkeley) 3/9/91
*/
```

wlan/protocol/support/bin2srec/include/stringl/stringl.h

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

/*
*  $Header: //source/qcom/qct/core/kernel/libstd/main/latest/src/strlcpy.c#1 $
*  $DateTime: 2011/01/07 17:50:19 $
*/

/*  $OpenBSD: strlcpy.c,v 1.11 2006/05/05 15:27:38 millert
 Exp $    */

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*/
```

wlan/protocol/support/bin2srec/strlcpy.c

```
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***/

agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin -- 9.48 Hermes I

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Fast discrete
Fourier and cosine transforms and inverses
author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier
routines of the same names from the NETLIB bihar and fftpack
fortran libraries developed by Paul N. Swarztrauber at the National
Center for Atmospheric Research in Boulder, CO USA. They have been
reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier

routines in this file are hereby released to the public domain as
well. The C routines here produce output exactly equivalent to the
original fortran routines. Of particular interest are the facts
that (like the original fortran), these routines can work on
arbitrary length vectors that need not be powers of two in
length. */
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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares
<Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org
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 * EAP peer state machines (RFC 4137)
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*
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
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* This file defines the cryptographic functions that need to be implemented
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* implementation of MD5, SHA1, and AES is used and no external libraries are
* required. When TLS is enabled (e.g., by enabling EAP-TLS or EAP-PEAP), the
* crypto library used by the TLS implementation is expected to be used for
* non-TLS needs, too, in order to save space by not implementing these
* functions
 twice.
*
* Wrapper code for using each crypto library is in its own file (crypto*.c)
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```
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 *
 *  First, the polynomial itself and its table of feedback terms.  The
 *  polynomial is

 *  X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
 *
 *  Note that we take it "backwards" and put the highest-order term in
 *  the lowest-order bit.  The X^32 term is "implied"; the LSB is the
 *  X^31 term, etc.  The X^0 term (usually shown as "+1") results in
 *  the MSB being 1
 *
 *  Note that the usual hardware shift register implementation, which
 *  is what we're using (we're merely optimizing it by doing eight-bit
 *  chunks at a time) shifts bits into the lowest-order term.  In our
 *  implementation, that means shifting towards the right.  Why do we
 *  do it this way?  Because the
calculated CRC must be transmitted in
 *  order from highest-order term to lowest-order term.  UARTs transmit
 *  characters in order from LSB to MSB.  By storing the CRC this way
 *  we hand it to the UART in the order low-byte to high-byte; the UART
 *  sends each low-bit to hight-bit; and the result is transmission bit
 *  by bit from highest- to lowest-order term without requiring any bit
 *  shuffling on our part.  Reception works similarly
 *
 *  The feedback terms table consists of 256, 32-bit entries.  Notes
 *
 *      The table can be generated at runtime if desired; code to do so
 *      is shown later.  It might not be obvious, but the feedback
 *      terms simply represent the results of eight
shift/xor opera
 *      tions for all combinations of data and CRC register values
 *
 *      The values must be right-shifted by eight bits by the "updcrc
 *      logic; the shift must be unsigned (bring in zeroes).  On some
 *      hardware you could probably optimize the shift in assembler by
 *      using byte-swap instructions
 *      polynomial $edb88320
 *
```

```
 *
 * CRC32 code derived from work by Gary S. Brown.
 */
```

```
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**
** This module is the Atheros specific ioctl/iwconfig/iwpriv interface
** to the ATH object, normally instantiated as wifiX, where X is the
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**
** This provides a mechanism to configure the ATH object within the
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```
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```

```
//
```

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1.628 python3-zopeinterface 5.3.0

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/protoc_test.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/setup.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_version.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/command.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/__init__.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/BUILD.bazel
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/BUILD
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/protoc_lib_deps.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/protoc.py
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_abseil.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_abseil.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/channel_test_peer.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/message_allocator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/validate_service_config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/config_protobuf.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/mutex.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/stubs/template_util_unittest.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/connectivity_state.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/status_code_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpcpp/ext/health_check_service_server_builder_option.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/channel_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/gpr_types.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpc_cronet.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/node_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/create_channel_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/php_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpc_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/server_context_test_spouse.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/php_plugin.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/core_codegen.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/server_initializer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/php_generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/propagation_bits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/rpc_service_method.h
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 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/server_builder_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/gpr_slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpc_security_constants.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/compression_types.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/health_check_service_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/rpc_service_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/node_generator.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_test_large_enum_value.proto
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/dynamic_message.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/reflection_internal.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/maps.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_proto3.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/scc.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/bytestream_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_string_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_helpers.h
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message_field.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/wire_format_unittest.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/json_util.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/zip_writer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/repeated_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/_proto/google/protobuf/any.proto
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/command_line_interface_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/field_comparator_test.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/file.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_message.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/printer.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/utility.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_map_field_lite.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/status_test.cc
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*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/error_listener.cc

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_message.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_message.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/reflection.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/test_util2.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_no_field_presence.proto
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/type_info_test_helper.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_import_lite.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/structured_objectwriter.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/testdata/field_mask.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/unittest_custom_options.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/_proto/google/protobuf/api.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_enum_field.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_proto2_unittest.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/js/js_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/java/java_field.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/importer.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/message_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/duration.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/int128.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/strtod.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_unittest.proto
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/mock_code_generator.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/logging.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
No license file was found, but licenses were detected in source scan.

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.

*
*/

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpc.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/census.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_builder.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/zcgunzip.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/zcgzip.cc
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*
*/
/// If set, grpc is free to use the HTTP GET verb for sending the request,

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_context.h

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```
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*
*/
/** TLS server authorization check arguments, wraps
*  grpc_tls_server_authorization_check_arg. It is used for experimental
*  purposes for now and it is subject to change.
*
*  The server authorization check arg contains all the info necessary to
*  schedule/cancel a server authorization check request. The callback function
 *  must be called after finishing the schedule operation. See the description
*  of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
*  more details. **/
```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/tls_credentials_options.h

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```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
```

*
*/

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/async_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/call.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/client_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call_op_set_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/error_details.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/channel_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/async_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/byte_buffer.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/channel_arguments.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/server_load_reporting.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call_op_set.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/create_channel_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/async_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/test/mock_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/sync_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/client_unary_call.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/grpc++.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/client_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server_builder.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/call_hook.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/channelz_service_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/grpc_library.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/byte_buffer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/serialization_traits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpc++/impl/codegen/core_codegen_interface.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/generic/generic_stub.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/async_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/client_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_writer.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/completion_queue.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/interceptor_common.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/config.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/channel_argument_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/method_handler_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/config_protobuf.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/callback_common.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/time.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/generic/async_generic_service.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/metadata_map.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server_posix.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/server_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/method_handler_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/completion_queue.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/core_codegen.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/create_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/status_code_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/grpc_library.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/security/auth_context.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpc++/ext/health_check_service_server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/server_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/create_auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/server_initializer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/resource_quota.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/server_builder_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/rpc_service_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/ext/proto_server_reflection_plugin.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/rpc_service_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/sync_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/proto_utils.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/generic/async_generic_service.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/time.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/health_check_service_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/serialization_traits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server_context.h
*

/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/auth_metadata_processor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/server_credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/server_callback.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/thd_id.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/status_code_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/rpc_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/proto_buffer_writer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/method_handler_impl.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/test/server_context_test_spouse.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/alarm.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/intercepted_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/service_type.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/client_callback.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/service_type.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/proto_buffer_reader.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/rpc_method.h
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.37.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools
    ==========

    Package for gRPC Python tools.

    Supported Python Versions

    Python >= 3.5

    Deprecated Python Versions

    Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

    Installation

    The gRPC Python tools package is available for Linux, Mac OS X, and Windows
    running Python 2.7.

Installing From PyPI
~~~~~~~~~~~~~~~~~~~~

If you are installing locally...

::

  $ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

  $ sudo pip install grpcio-tools

If you're on Windows make sure that you installed the :code:`pip.exe` component
when you installed Python (if not go back and install it!) then invoke:

::

  $ pip.exe install grpcio-tools

Windows users may need to invoke :code:`pip.exe` from a command line ran as
administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of :code:`pip`
to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest
version!

You might also need to install Cython to handle installation via the source
distribution if gRPC Python's system coverage with wheels does not happen to
include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires
that you have the Python headers (usually a
package named :code:`python-dev`) and Cython installed. It further requires a
GCC-like compiler to go smoothly; you can probably get it to work without
GCC-like stuff, but you may end up having a bad time.

::

  $ export REPO_ROOT=grpc # REPO_ROOT can be any directory of your choice
  $ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
  $ cd $REPO_ROOT

```
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* **... see a** :code:`pkg_resources.VersionConflict` **when I try to install grpc**

  This is likely because :code:`pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

  :code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

  For example, if you get an error like the following:

  ::

    Traceback (most recent call last):
    File "<string>", line 17, in <module>
     ...
    File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
      raise VersionConflict(dist, req)
    pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))

  You can fix it by doing:

  ::

    sudo pip install --ignore-installed six

* **... see compiler errors on some platforms when either installing from source or from the source distribution**

  If you see
~~~~~~~~~~~~~~~

::

/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
^
compilation terminated.

You can fix it by installing `python-dev` package. i.e

::

sudo apt-get install python-dev

If you see something similar to:

::

third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro 'SIGNED_INT_MAX'
static const Type kPosMax = SIGNED_INT_MAX(Type); \\
^

And your toolchain is GCC (at the time of this writing, up through at least
GCC 6.0), this is probably a bug where GCC chokes on constant expressions
when the :code:`-fwrapv` flag is specified. You should consider setting your
environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:

::

$ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT $PROTO_FILES

To use as a build step in distutils-based projects, you may use the provided
command class in your :code:`setup.py`:

::

setuptools.setup(
...
cmdclass={

```
        'build_proto_modules': grpc.tools.command.BuildPackageProtos,
       }
      # ...
    )
```

Invocation of the command will walk the project tree and transpile every
:code:`.proto` file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be
installed on the machine before the setup script is invoked (i.e. no
combination of :code:`setup_requires` or :code:`install_requires` will provide
access to :code:`grpc.tools.command.BuildPackageProtos` if it isn't already
installed). One way to work around this can be found in our
:code:`grpcio-health-checking`
`package <https://pypi.python.org/pypi/grpcio-health-checking>`_:

::

```
  class BuildPackageProtos(setuptools.Command):
    """Command to generate project *_pb2.py modules from proto files."""
    # ...
    def run(self):
      from grpc.tools import
command
      command.build_package_protos(self.distribution.package_dir[''])
```

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the
command on-setup as desired.

For more information on command classes, consult :code:`distutils` and
:code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: License :: OSI Approved :: Apache Software License

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/PKG-INFO
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpcio_tools.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

```
/*
*
* Copyright 2017 gRPC authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
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*     http://www.apache.org/licenses/LICENSE-2.0
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
*/
```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/byte_buffer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/mock_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/load_reporting.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/fork.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/error_details.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_custom.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/fork.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_custom.h
No license file was found, but licenses were detected in source scan.

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// in the documentation and/or other materials provided with the
//     * Neither the name of Google Inc. nor the names of its
// this software without specific prior written permission.
```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc

*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
No license file was found, but licenses were detected in source scan.

```
/*
*
* Copyright 2015 gRPC authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */
```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* Copyright 2015 gRPC authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
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*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
*/
```

Found in path(s):

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/compression.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_plugin.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_plugin.cc
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/schema_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/method_handler.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/async_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/node_plugin.cc
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/alarm.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/rpc_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/async_generic_service.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/log.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/port_platform.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/service_type.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/time.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_generic.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/byte_buffer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/byte_buffer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm_gcc_sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call_hook.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/metadata_map.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm_windows.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator_helpers-inl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/completion_queue.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_generator.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/grpcpp.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/time.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/grpc_library.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm_windows.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator_string-inl.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/string_ref.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/time.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/async_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/client_interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/port_platform.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm_gcc_atomic.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpc_security.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/status_code_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/async_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/cpu.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/protobuf_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/create_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/client_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/security/auth_context.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/serialization_traits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_plugin.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/generic/generic_stub.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/serialization_traits.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm_gcc_atomic.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/string_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm_gcc_sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/rpc_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/stub_options.h
*

/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/proto_utils.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/sync_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/config_protobuf.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_generator_helpers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator_map-inl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/objective_c_plugin.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/proto_buffer_reader.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/config.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/server_credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/python_private_generator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/log_windows.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_generic.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/method_handler.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_windows.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/channel_arguments.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_plugin.cc
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/log.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_windows.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/byte_buffer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/auth_metadata_processor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/byte_buffer_reader.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/interceptor.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/workaround_list.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/alloc.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/client_unary_call.h

1.630 dhcp-relay 4.4.2p1

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

 <xsl:template name="isc.copyright.format">
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   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">

     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>
   </xsl:if>
 </xsl:template>

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

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.636 watch-dog 5.16

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1.640 libpsl 0.21.1

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1.641 python3-pbr 5.4.4

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1.642 alsa-ucm-conf 1.2.4

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1.644 python3-git 3.1.14

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1.645 python3-grpcio-tools 1.37.0

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/main.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/admin_services.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/simplest.proto
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/complicated.proto
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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/xds_server_builder.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/tls_certificate_provider.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_custom.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/error_details.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/mock_stream.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/descriptor_database.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/zip_writer.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/substitute.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/map_test_util.inc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/test_util.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_file.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/io/strtod.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_enum_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/arena_test_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/wrappers.proto
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/util/internal/default_value_objectwriter.cc
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_builder.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/census.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/grpc.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/completion_queue.h
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*/
```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/sync_abseil.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/channel_test_peer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_abseil.h
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```

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/zcgunzip.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/testing/zcgzip.cc
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*
*/
/// If set, grpc is free to use the HTTP GET verb for sending the request,

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_context.h
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/alts_util.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/message_allocator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/config_protobuf.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/opencensus.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/message_allocator.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/test/default_reactor_test_peer.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/delegating_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/cronet_credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/validate_service_config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_plugin.h
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.cc
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*
*/
/** TLS server authorization check arguments, wraps
* grpc_tls_server_authorization_check_arg. It is used for experimental
* purposes for now and it is subject to change.
*

* The server authorization check arg contains all the info necessary to
* schedule/cancel a server authorization check request. The callback function
 * must be called after finishing the schedule operation. See the description
* of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
* more details. **/

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/tls_credentials_options.h
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/casts.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_helpers_unittest.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h
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Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.37.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools
    ==========

    Package for gRPC Python tools.

    Supported Python Versions

Python >= 3.5

Deprecated Python Versions

Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

Installation

The gRPC Python tools package is available for Linux, Mac OS X, and Windows running Python 2.7.

Installing From PyPI
~~~~~~~~~~~~~~~~~~~~

If you are installing locally...

::

  $ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

  $ sudo pip install grpcio-tools

If you're on Windows make sure that you installed the :code:`pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

  $ pip.exe install grpcio-tools

Windows users may need to invoke :code:`pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of :code:`pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires
that you have the Python headers (usually a
package named :code:`python-dev`) and Cython installed. It further requires a
GCC-like compiler to go smoothly; you can probably get it to work without
GCC-like stuff, but you may end up having a bad time.

::

```
$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work
out for you in MSYS2 (follow the Linux instructions), but it isn't officially
supported at
the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* **... see a** :code:`pkg_resources.VersionConflict` **when I try to install
grpc**

This is likely because :code:`pip` doesn't own the offending dependency,
which in turn is likely because your operating system's package manager owns
it. You'll need to force the installation of the dependency:

:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`

For example, if you get an error like the following:

::

```
Traceback (most recent call last):
File "<string>", line 17, in <module>
 ...
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
  raise VersionConflict(dist, req)
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```
~~~~~~~~~~~~~~~

You can fix it by doing:

::

sudo pip install --ignore-installed six

* **... see compiler errors on some platforms when either installing from source or from the source distribution**

If you see

::

/tmp/pip-build-U8pSsr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
^
compilation terminated.

You can fix it by installing `python-dev` package. i.e

::

sudo apt-get install python-dev

If you see something similar to:

::

third_party/protobuf/src/google/protobuf/stubs/mathlimits.h:173:31: note: in expansion of macro 'SIGNED_INT_MAX'
static const Type kPosMax = SIGNED_INT_MAX(Type); \\

^

And your toolchain is GCC (at the time of this writing, up through at least
GCC 6.0), this is probably a bug where GCC chokes on constant expressions
when the :code:`-fwrapv` flag is specified. You should consider setting your
environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:

::

$ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT $PROTO_FILES

To use as a build step in distutils-based projects, you may use the provided command class in your :code:`setup.py`:

::

```
setuptools.setup(
  # ...
  cmdclass={
    'build_proto_modules': grpc.tools.command.BuildPackageProtos,
  }
  # ...
)
```

Invocation of the command will walk the project tree and transpile every :code:`.proto` file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be installed on the machine before the setup script is invoked (i.e. no combination of :code:`setup_requires` or :code:`install_requires` will provide access to :code:`grpc.tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our :code:`grpcio-health-checking` `package <https://pypi.python.org/pypi/grpcio-health-checking>`_:

::

```
class BuildPackageProtos(setuptools.Command):
  """Command to generate project *_pb2.py modules from proto files."""
  # ...
  def run(self):
    from grpc.tools import
command
    command.build_package_protos(self.distribution.package_dir[''])
```

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the command on-setup as desired.

For more information on command classes, consult :code:`distutils` and :code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: License :: OSI Approved :: Apache Software License

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/PKG-INFO
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpcio_tools.egg-info/PKG-INFO
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Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/stubs/platform_macros.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.h
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*/

Found in path(s):
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/client_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/proto_buffer_reader.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/test/mock_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/create_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/time.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/generic/async_generic_service.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/callback_common.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/create_auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/completion_queue.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_interceptor.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/grpc_library.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/alarm.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/server_builder.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/async_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/client_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/intercepted_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/thd_id.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/call_hook.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/config.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/channelz_service_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/rpc_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/grpc_library.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/server_credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/create_channel_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/rpc_service_method.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/serialization_traits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/rpc_method.h
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpc++/ext/health_check_service_server_builder_option.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/security/credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/status_code_enum.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/stub_options.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/async_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/completion_queue_tag.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call.h

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/server_builder_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/core_codegen.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/test/server_context_test_spouse.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/support/error_details.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/call_op_set_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc++/impl/codegen/metadata_map.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/async_generic_service.h

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/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/status.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/slice.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/byte_buffer_reader.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm_gcc_atomic.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/security/auth_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/sync_posix.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm_gcc_sync.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/serialization_traits.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/cpp_generator.cc
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/log_windows.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/completion_queue.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/support/atm.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/method_handler_impl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/security/credentials.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/config.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/protobuf_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/ext/proto_server_reflection_plugin.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/server_context.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/async_unary_call.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/csharp_generator.cc
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/service_type.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/create_channel.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/ruby_generator_map-inl.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/support/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/grpcpp.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-
1.37.0/grpc_root/include/grpcpp/impl/codegen/core_codegen_interface.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/string_ref.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/atm_gcc_sync.h
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*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpc/impl/codegen/grpc_types.h
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* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/BUILD.bazel
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/src/compiler/BUILD
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/setup.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/_parallel_compile_patch.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/command.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_version.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/protoc_lib_deps.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/protoc.py
*
 /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/test/protoc_test.py
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_tools/_protoc_compiler.pyx
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*/

Found in path(s):

* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/client_callback.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/async_stream.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_callback.h
*
/grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/server_callback_handlers.h
* /grpcio-tools-1-37-0-1-tar-gz/grpcio-tools-1.37.0/grpc_root/include/grpcpp/impl/codegen/sync_stream.h

1.646 libdnf 0.58.0

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1.647 python3-coverage 5.5

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Coverage.py was originally written by Gareth Rees, and since 2004 has been
extended and maintained by Ned Batchelder.

Other contributions, including writing code, updating docs, and submitting
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1.650 python3-cython 0.29.22

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1.655 gcc-sanitizers 10.3.0

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.656 sdparm 1.11

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1.657 libjson-perl 4.03000

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NAME
 JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS
  use JSON; # imports encode_json, decode_json, to_json and from_json.

  # simple and fast interfaces (expect/generate UTF-8)

  $utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
  $perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

  # OO-interface

  $json = JSON->new->allow_nonref;

  $json_text   = $json->encode($perl_scalar);
  $perl_scalar = $json->decode($json_text);

  $pretty_printed = $json->pretty->encode($perl_scalar); # pretty-printing

VERSION
    2.93

DESCRIPTION
 This module is a thin wrapper for JSON::XS-compatible modules with
 a few additional features. All the backend modules convert a Perl
 data structure to a JSON text as of RFC4627 (which we know is
 obsolete but we still stick to; see below for an option to support

part of RFC7159) and vice versa. This module uses JSON::XS by
default, and when JSON::XS is not available, this module falls back on JSON::PP, which is in the Perl core since 5.14. If JSON::PP is not available either, this module then falls back on JSON::backportPP (which is actually JSON::PP in a different .pm file) bundled in the same distribution as this module. You can also explicitly specify to use Cpanel::JSON::XS, a fork of JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them, including extra features that other modules don't support, but as long as you use only common features (most important ones are described below), migration from backend to backend should be reasonably easy. For details, see each backend module you use.

CHOOSING BACKEND

This module respects an environmental variable called "PERL_JSON_BACKEND" when it decides a backend module to use. If this environmental variable is not set, it tries to load JSON::XS, and if JSON::XS is not available, it falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available either.

If you always don't want it to fall back on pure perl modules, set the variable like this ("export" may be "setenv", "set" and the likes, depending on your environment):

```
> export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test files, in order not to be bothered with incompatibilities between backends (you need to wrap this in "BEGIN", and set before actually "use"-ing JSON module, as it decides its backend as soon as it's loaded):

```
BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }
use JSON;
```

USING OPTIONAL FEATURES

There are a few options you can set when you "use" this module:

-support_by_pp

```
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }
```

```
    use JSON -support_by_pp;


  my $json = JSON->new;
    # escape_slash is for JSON::PP only.
    $json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower "decode"/"encode" methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option
and just to use JSON::PP
explicitly when you need JSON::PP features.

-convert_blessed_universally

```
    use JSON -convert_blessed_universally;

    my $json = JSON->new->allow_nonref->convert_blessed;
    my $object = bless {foo => 'bar'}, 'Foo';
    $json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable "convert_blessed" and provide a "TO_JSON" method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as Sereal or Storable for example), but if you do want to use this module for that purpose,

"-convert_blessed_universally" option may help, which tweaks "encode" method of the backend to install "UNIVERSAL::TO_JSON" method (locally) before encoding, so that all the objects that don't have their own "TO_JSON" method can fall back on the method in the "UNIVERSAL" namespace. Note that you still need to enable "convert_blessed" flag to actually encode objects in a data structure, and "UNIVERSAL::TO_JSON" method installed by this option only converts blessed hash/array references into their unblessed clone (including private keys/values that are not supposed to be exposed). Other blessed references will be converted into null.

This feature is experimental and may be removed in the future.

-no_export
When you don't want to import functional interfaces from a module, you usually supply "()" to its "use" statement.

```
use JSON (); # no functional interfaces
```

If you don't want to import functional interfaces, but you also want to use any of the above options, add "-no_export" to the option list.

```
# no functional interfaces, while JSON::PP support is enabled.
use JSON -support_by_pp, -no_export;
```

FUNCTIONAL INTERFACE
This section is taken from JSON::XS. "encode_json" and "decode_json" are exported by default.

This module also exports "to_json" and "from_json" for backward compatibility. These are slower, and may expect/generate different stuff from what "encode_json" and "decode_json" do, depending on their options. It's better just to use Object-Oriented interfaces than using these two functions.

encode_json
$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string (that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
    $json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

decode_json

```
    $perl_scalar = decode_json $json_text
```

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference. Croaks on error.

This function call is functionally identical to:

```
    $perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

to_json

```
   $json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default. Croaks on error.

Basically, this function call is functionally identical to:

```
   $json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but that may change what "to_json" expects/generates (see "ENCODING/CODESET
FLAG NOTES" for details).

```
   $json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
   # => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

from_json

```
   $perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of "to_json": expects a Unicode string and tries to parse it, returning the resulting reference. Croaks on error.

Basically, this function call is functionally identical to:

```
    $perl_scalar = JSON->new->decode($json_text)
```

You can pass an optional hash reference to modify its behavior,

but that may change what "from_json" expects/generates (see
"ENCODING/CODESET FLAG NOTES" for details).

```
$perl_scalar = from_json($json_text, {utf8 => 1})
# => JSON->new->utf8(1)->decode($json_text)
```

JSON::is_bool

```
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or
JSON::false, two constants that act like 1 and 0 respectively and
are also used to represent JSON "true"
and "false" in Perl
strings.

See MAPPING, below, for more information on how JSON values are
mapped to Perl.

COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding
or decoding style, within the limits of supported formats.

new

```
$json = JSON->new
```

Creates a new JSON::XS-compatible backend object that can be used
to de/encode JSON strings. All boolean flags described below are
by default *disabled*.

The mutators for flags all return the backend object again and
thus calls can be chained:

```
my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}
```

ascii

```
$json = $json->ascii([$enable])

$enabled = $json->get_ascii
```

If $enable is true (or missing), then the "encode" method will not
generate characters outside the code range 0..127 (which is
ASCII). Any Unicode characters outside that range will be escaped
using
either a single \uXXXX (BMP characters) or a double
\uHHHH\uLLLLL escape sequence, as per RFC4627. The resulting

encoded JSON text can be treated as a native Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string, or any other superset of ASCII.

If $enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

The main use for this flag is to produce JSON texts that can be transmitted over a 7-bit channel, as the encoded JSON texts will not contain any 8 bit characters.

```
JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]
```

latin1

```
$json = $json->latin1([$enable])

$enabled = $json->get_latin1
```

If $enable is true (or missing), then the "encode" method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255. The resulting string can be treated as a latin1-encoded JSON text or a native Unicode string. The "decode" method will not be affected in any way by this flag, as "decode" by default expects Unicode, which is a strict superset of latin1.

If $enable is false, then the "encode" method will not escape Unicode characters unless required by the JSON syntax or other flags.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

The main use for this flag is efficiently encoding binary data as JSON text, as most octets will not be escaped, resulting in a smaller encoded size. The disadvantage is that the resulting JSON text is encoded in latin1 (and must correctly be treated as such when storing and transferring), a rare encoding for JSON. It is therefore most useful when you want to store data structures known to contain binary data efficiently in files or databases, not when talking
to other JSON encoders/decoders.

```
  JSON->new->latin1->encode (["\x{89}\x{abc}"]
  => ["\x{89}\\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

utf8

```
    $json = $json->utf8([$enable])

    $enabled = $json->get_utf8
```

If $enable is true (or missing), then the "encode" method will encode the JSON result into UTF-8, as required by many protocols, while the "decode" method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O. In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the "encode" method will return the JSON string as a (non-encoded) Unicode string, while "decode" expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

See also the section *ENCODING/CODESET FLAG NOTES* later in this document.

Example, output UTF-16BE-encoded JSON:

```
  use Encode;
  $jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
  use Encode;
  $object = JSON->new->decode (decode "UTF-32LE", $jsontext);
```

pretty

```
    $json = $json->pretty([$enable])
```

This enables (or disables) all of the "indent", "space_before" and "space_after" (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

indent

```
    $json = $json->indent([$enable])

    $enabled = $json->get_indent
```

If $enable is true (or missing), then the "encode" method will use

a multiline format as output, putting every array member or object/hash key-value pair into its own line, indenting them properly.

If $enable is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain
any
"newlines".

This setting has no effect when decoding JSON texts.

space_before

```
$json = $json->space_before([$enable])

$enabled = $json->get_space_before
```

If $enable is true (or missing), then the "encode" method will add an extra optional space before the ":" separating keys from values in JSON objects.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts. You will also most likely combine this setting with "space_after".

Example, space_before enabled, space_after and indent disabled:

```
{"key" :"value"}
```

space_after

```
$json = $json->space_after([$enable])

$enabled = $json->get_space_after
```

If $enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the "," separating key-value pairs and array members.

If
$enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

relaxed
$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If $enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in anyway. *Be aware that this option makes you accept invalid JSON texts as if they were valid!*. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

* list items can have an end-comma

JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually
and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
[
   1,
   2, <- this comma not normally allowed
]
{
   "k1": "v1",
   "k2": "v2", <- this comma not normally allowed
}
```

* shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[
   1, # this comment not allowed in JSON
      # neither this one...
]
```

canonical
    $json = $json->canonical([$enable])

    $enabled = $json->get_canonical

If $enable is true (or missing), then the "encode" method will
output JSON objects by sorting their keys. This is adding a
comparatively high overhead.

If $enable is false,
then the "encode" method will output
key-value pairs in the order Perl stores them (which will likely
change between runs of the same script, and can change even within
the same run from 5.18 onwards).

This option is useful if you want the same data structure to be
encoded as the same JSON text (given the same overall settings).
If it is disabled, the same hash might be encoded differently even
if contains the same data, as key-value pairs have no inherent
ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

allow_nonref
    $json = $json->allow_nonref([$enable])

    $enabled = $json->get_allow_nonref

If $enable is true (or missing), then the "encode" method can
convert a non-reference into its corresponding string, number or
null JSON value, which is an extension to RFC4627. Likewise,
"decode" will accept those JSON values instead of croaking.

If $enable is false, then
the "encode" method will croak if it
isn't passed an arrayref or hashref, as JSON texts must either be
an object or array. Likewise, "decode" will croak if given
something that is not a JSON object or array.

Example, encode a Perl scalar as JSON value with enabled
"allow_nonref", resulting in an invalid JSON text:

   JSON->new->allow_nonref->encode ("Hello, World!")
   => "Hello, World!"

allow_unknown
    $json = $json->allow_unknown ([$enable])

    $enabled = $json->get_allow_unknown

 If $enable is true (or missing), then "encode" will *not* throw an
 exception when it encounters values it cannot represent in JSON
 (for example, filehandles) but instead will encode a JSON "null"
 value. Note that blessed objects are not included here and are
 handled separately by c<allow_nonref>.

 If $enable is false (the default), then "encode" will throw an
 exception when it encounters anything it cannot encode as JSON.

 This option does not affect "decode" in
 any way, and it is
 recommended to leave it off unless you know your communications
 partner.

allow_blessed
    $json = $json->allow_blessed([$enable])

    $enabled = $json->get_allow_blessed

 See "OBJECT SERIALISATION" for details.

 If $enable is true (or missing), then the "encode" method will not
 barf when it encounters a blessed reference that it cannot convert
 otherwise. Instead, a JSON "null" value is encoded instead of the
 object.

 If $enable is false (the default), then "encode" will throw an
 exception when it encounters a blessed object that it cannot
 convert otherwise.

 This setting has no effect on "decode".

convert_blessed
    $json = $json->convert_blessed([$enable])

    $enabled = $json->get_convert_blessed

 See "OBJECT SERIALISATION" for details.

 If $enable is true (or missing), then "encode", upon encountering
 a blessed object, will check for the availability of the "TO_JSON"
 method on the object's class. If found, it

will be called in
scalar context and the resulting scalar will be encoded instead of
the object.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON"
returns other blessed objects, those will be handled in the same
way. "TO_JSON" must take care of not causing an endless recursion
cycle (== crash) in this case. The name of "TO_JSON" was chosen
because other methods called by the Perl core (== not by the user
of the object) are usually in upper case letters and to avoid
collisions with any "to_json" function or method.

If $enable is false (the default), then "encode" will not consider
this type of conversion.

This setting has no effect on "decode".

filter_json_object
    $json = $json->filter_json_object([$coderef])

When $coderef is specified, it will be called from "decode" each
time it decodes a JSON object. The only argument is a reference to
the newly-created hash. If the code references returns a single
scalar (which need not be
a reference), this value (i.e. a copy of
that scalar to avoid aliasing) is inserted into the deserialised
data structure. If it returns an empty list (NOTE: *not* "undef",
which is a valid scalar), the original deserialised hash will be
inserted. This setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will
be removed and "decode" will not change the deserialised hash in
any way.

Example, convert all JSON objects into the integer 5:

```
   my $js = JSON->new->filter_json_object (sub { 5 });
   # returns [5]
   $js->decode ('[{}]'); # the given subroutine takes a hash reference.
   # throw an exception because allow_nonref is not enabled
   # so a lone 5 is not allowed.
   $js->decode ('{"a":1, "b":2}');
```

filter_json_single_key_object
    $json = $json->filter_json_single_key_object($key [=> $coderef])

Works remotely similar to "filter_json_object", but is only called
for JSON objects having a single

key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$__dollars_are_rarely_used__$" or "}ugly_brace_placement", or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{ "__widget__" => <id> }" into the corresponding $WIDGET{<id>} object:

```
  # return whatever is in $WIDGET{5}:
  JSON
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
        $WIDGET{ $_[0] }
      })
    ->decode ('{"__widget__": 5')

  # this can be used with a TO_JSON method in some "widget" class
  # for serialisation to json:
  sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
      $self->{id} = ..get..some..id..;
      $WIDGET{$self->{id}} = $self;
    }
```

```
    { __widget__ => $self->{id} }
  }
```

max_depth

```
    $json = $json->max_depth([$maximum_nesting_depth])

    $max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default 512) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "{" or "[" characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

max_size

```
    $json = $json->max_size([$maximum_string_size])

    $max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

encode

```
    $json_text = $json->encode($perl_scalar)
```

Converts the given Perl value or data structure to its JSON representation. Croaks on error.

decode

```
    $perl_scalar = $json->decode($json_text)
```

The opposite of "encode": expects a JSON text and tries to parse

it, returning the resulting simple scalar or reference. Croaks on error.

decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

This is useful if your JSON texts are not delimited by an outer protocol and you need to know where the JSON text ends.

```
JSON->new->decode_prefix ("[1] the tail")
=> ([1], 3)
```

ADDITIONAL METHODS

The following methods are for this module only.

backend

$backend = $json->backend

Since 2.92, "backend" method returns an abstract backend module used currently, which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS), or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual backend module globally.

If you need to know what is used actually, use "isa", instead of string comparison.

is_xs

$boolean = $json->is_xs

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

is_pp

$boolean = $json->is_pp

Returns true if the backend inherits JSON::PP.

property

$settings = $json->property()

Returns a reference to a hash that holds all the common flag settings.

```
    $json = $json->property('utf8' => 1)
    $value
= $json->property('utf8') # 1
```

You can use this to get/set a value of a particular flag.

INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. While this module always has to keep both JSON text and resulting Perl data structure in memory at one time, it does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect mismatched parentheses. The only thing it guarantees is
that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

incr_parse

```
    $json->incr_parse( [$string] ) # void context

    $obj_or_undef = $json->incr_parse( [$string] ) # scalar context

    @obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If $string is given, then this string is appended to the already existing JSON fragment stored in the $json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to

add more text in as many chunks as you want.

If the method is called
in scalar context, then it will try to
extract exactly *one* JSON object. If that is successful, it will
return this object, otherwise it will return "undef". If there is
a parse error, this method will croak just as "decode" would do
(one can then use "incr_skip" to skip the erroneous part). This is
the most common way of using the method.

And finally, in list context, it will try to extract as many
objects from the stream as it can find and return them, or the
empty list otherwise. For this to work, there must be no
separators (other than whitespace) between the JSON objects or
arrays, instead they must be concatenated back-to-back. If an
error occurs, an exception will be raised as in the scalar context
case. Note that in this case, any previously-parsed JSON texts
will be lost.

Example: Parse some JSON arrays/objects in a given string and
return them.

```
    my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

incr_text

```
    $lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an
lvalue, that is, you can manipulate it. This *only* works when a
preceding call to "incr_parse" in *scalar context* successfully
returned an object. Under all other circumstances you must not
call this function (I mean it. although in simple tests it might
actually work, it *will* fail under real world conditions). As a
special exception, you can also call this method before having
parsed anything.

That means you can only use this function to look at or manipulate
text before or after complete JSON objects, not while the parser
is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text
after a JSON object or b) parsing multiple JSON objects separated
by non-JSON text (such as commas).

incr_skip

```
    $json->incr_skip
```

This will reset the state of the incremental parser and will

remove the parsed text from the input buffer so far. This is
useful after "incr_parse" died, in which case the input buffer and
incremental parser state is left unchanged, to skip the text
parsed so far and to reset the parse state.

The difference to "incr_reset" is that only text until the parse
error occurred is removed.

incr_reset
    $json->incr_reset

This completely resets the incremental parser, that is, after this
call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and
want to ignore any trailing data, which means you have to reset
the parser after each successful decode.

MAPPING
Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to
JSON values and vice versa. These mappings are designed to "do the
right thing" in most circumstances automatically, preserving
round-tripping characteristics (what you put in comes out as
something equivalent).

For the more enlightened:
note that in the following descriptions,
lowercase *perl* refers to the Perl interpreter, while uppercase
Perl refers to the abstract Perl language itself.

JSON -> PERL
object
    A JSON object becomes a reference to a hash in Perl. No
    ordering of object keys is preserved (JSON does not preserver
    object key ordering itself).

array
    A JSON array becomes a reference to an array in Perl.

string
    A JSON string becomes a string scalar in Perl - Unicode
    codepoints in JSON are represented by the same codepoints in
    the Perl string, so no manual decoding is necessary.

number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly
than floating point
numbers.

If the number consists of digits only, this module will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, this module only guarantees precision up to but
not including the least
significant bit.

true, false
These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

null
A JSON null atom becomes "undef" in Perl.

shell-style comments ("# *text*")
As a nonstandard extension to the JSON syntax that is enabled by the "relaxed" setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

PERL -> JSON
The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type

is meant by a Perl value.

hash references
   Perl hash references become JSON objects. As there is no
   inherent ordering in hash keys (or JSON objects), they will
   usually be encoded in a pseudo-random order.
This module can
   optionally sort the hash keys (determined by the *canonical*
   flag), so the same data structure will serialise to the same
   JSON text (given same settings and version of the same
   backend), but this incurs a runtime overhead and is only
   rarely useful, e.g. when you want to compare some JSON text
   against another for equality.

array references
   Perl array references become JSON arrays.

other references
   Other unblessed references are generally not allowed and will
   cause an exception to be thrown, except for references to the
   integers 0 and 1, which get turned into "false" and "true"
   atoms in JSON. You can also use "JSON::false" and "JSON::true"
   to improve readability.

      encode_json [\0,JSON::true]   # yields [false,true]

JSON::true, JSON::false, JSON::null
   These special values become JSON true and JSON false values,
   respectively. You can also use "\1" and "\0" directly
if you
   want.

blessed objects
   Blessed objects are not directly representable in JSON, but
   "JSON::XS" allows various ways of handling objects. See
   "OBJECT SERIALISATION", below, for details.

simple scalars
   Simple Perl scalars (any scalar that is not a reference) are
   the most difficult objects to encode: this module will encode
   undefined scalars as JSON "null" values, scalars that have
   last been used in a string context before encoding as JSON
   strings, and anything else as number value:

      # dump as number
      encode_json [2]   # yields [2]
      encode_json [-3.0e17]   # yields [-3e+17]
      my $value = 5; encode_json [$value] # yields [5]

```
   # used as string, so dump as string
   print $value;
   encode_json [$value]          # yields ["5"]

   # undef becomes null
   encode_json [undef]           # yields [null]
```

You can force the type to be a string by stringifying it:

```
   my $x = 3.1; # some variable containing a number
   "$x";        # stringified
   $x .= "";    # another, more awkward way to stringify
   print $x;    # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
   my $x = "3"; # some variable containing a string
   $x += 0;     # numify it, ensuring it will be dumped as a number
   $x *= 1;     # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways. Tell me if you need this capability (but don't forget to explain why it's needed :).

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

OBJECT SERIALISATION

As for Perl objects, this module only supports a pure JSON representation (without the ability to deserialise the object automatically again).

SERIALISATION

What happens when this module encounters a Perl object depends on the "allow_blessed" and "convert_blessed" settings, which are used in this order:

1. "convert_blessed" is enabled and the object has a "TO_JSON" method.

   In this case, the "TO_JSON" method of the object is invoked in

scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following "TO_JSON" method will convert all URI objects to JSON strings when serialised. The fact that these values originally were URI objects is lost.

```
sub URI::TO_JSON {
   my ($uri) = @_;

 $uri->as_string
}
```

2. "allow_blessed" is enabled.
   The object will be serialised as a JSON null value.

3. none of the above
   If none of the settings are enabled or the respective methods are missing, this module throws an exception.

ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify encodings or codesets - "utf8", "latin1" and "ascii". There seems to be some confusion on what these do, so here is a short comparison:

"utf8" controls whether the JSON text created by "encode" (and expected by "decode") is UTF-8 encoded or not, while "latin1" and "ascii" only control whether "encode" escapes character values outside their respective codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to "encode" and "decode", that
is, texts encoded with any combination
of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and *encodes* them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1 (= latin 1) and

ASCII are both codesets *and* encodings at the same time, which
can be confusing.

"utf8" flag disabled
When "utf8" is disabled (the default), then "encode"/"decode"
generate and expect Unicode strings, that is, characters with
high ordinal Unicode values (> 255) will be encoded as such
characters, and likewise such characters are decoded as-is, no
changes to them will be done, except "(re-)interpreting"
them
as Unicode codepoints or Unicode characters, respectively (to
Perl, these are the same thing in strings unless you do
funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g.
when you want to have UTF-16 encoded JSON texts) or when some
other layer does the encoding for you (for example, when
printing to a terminal using a filehandle that transparently
encodes to UTF-8 you certainly do NOT want to UTF-8 encode
your data first and have Perl encode it another time).

"utf8" flag enabled
If the "utf8"-flag is enabled, "encode"/"decode" will encode
all characters using the corresponding UTF-8 multi-byte
sequence, and will expect your input strings to be encoded as
UTF-8, that is, no "character" of the input string must have
any value > 255, as UTF-8 does not allow that.

The "utf8" flag therefore switches between two modes: disabled
means you will
get a Unicode string in Perl, enabled means you
get an UTF-8 encoded octet/binary string in Perl.

"latin1" or "ascii" flags enabled
With "latin1" (or "ascii") enabled, "encode" will escape
characters with ordinal values > 255 (> 127 with "ascii") and
encode the remaining characters as specified by the "utf8"
flag.

If "utf8" is disabled, then the result is also correctly
encoded in those character sets (as both are proper subsets of
Unicode, meaning that a Unicode string with all character
values < 256 is the same thing as a ISO-8859-1 string, and a
Unicode string with all character values < 128 is the same
thing as an ASCII string in Perl).

If "utf8" is enabled, you still get a correct UTF-8-encoded
string, regardless of these flags, just some more characters

will be escaped using "\uXXXX" then before.

Note that ISO-8859-1-*encoded* strings are not compatible with UTF-8 encoding, while
ASCII-encoded strings are. That is
because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 *codeset* being a subset of Unicode), while ASCII is.

Surprisingly, "decode" will ignore these flags and so treat all input values as governed by the "utf8" flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither "latin1" nor "ascii" are incompatible with the "utf8" flag - they only govern when the JSON output engine escapes a character or not.

The main use for "latin1" is to relatively efficiently store binary data as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for "ascii" is to force the output to not contain characters with values > 127, which means you can interpret the resulting
string as UTF-8, ISO-8859-1, ASCII, KOI8-R or
most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

BACKWARD INCOMPATIBILITY
Since version 2.90, stringification (and string comparison) for "JSON::true" and "JSON::false" has not been overloaded. It shouldn't matter as long as you treat them as boolean values, but a code that expects they are stringified as "true" or "false" doesn't work as you have expected any more.

```
if (JSON::true eq 'true') {  # now fails

print "The result is $JSON::true now."; # => The result is 1 now.
```

And now these boolean values don't inherit JSON::Boolean, either. When you need to test a value is a JSON boolean value or not, use "JSON::is_bool"

function, instead of testing the value inherits a
particular boolean class or not.

BUGS
Please report bugs on backend selection and additional features
this module provides to RT or GitHub issues for this module:

https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON
https://github.com/makamaka/JSON/issues

Please report bugs and feature requests on decoding/encoding and
boolean behaviors to the author of the backend module you are
using.

SEE ALSO
JSON::XS, Cpanel::JSON::XS, JSON::PP for backends.

JSON::MaybeXS, an alternative that prefers Cpanel::JSON::XS.

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

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JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc
Lehmann.

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under the same terms as Perl itself.

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/README
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

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=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Compat5006.pm
No license file was found, but licenses were detected in source scan.

```
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;


printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );


print "----------------------------------\n";
```

```
print "->encode()\n";
print "----------------------------------\n";

$result = timethese( -$wanttime,
  {
     'JSON::PP' => sub { $pp->encode( $perl ) },
     'JSON::XS' => sub { $xs->encode( $perl ) },
  },
  'none'
);
cmpthese( $result );

print "----------------------------------\n";
print "->pretty->canonical->encode()\n";
print "----------------------------------\n";

$pp->pretty->canonical;
$xs->pretty->canonical;

$result
 = timethese( -$wanttime,
  {
     'JSON::PP' => sub { $pp->encode( $perl ) },
     'JSON::XS' => sub { $xs->encode( $perl ) },
  },
  'none'
);
cmpthese( $result );

print "----------------------------------\n";


__END__

=pod

=head1 SYNOPSYS

 bench_encode.pl json-file
 # or
 bench_encode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR
```

makamaka

=head1 LISENCE

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/eg/bench_encode.pl
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.

=head1 SYNOPSIS

use JSON::PP;

exported functions, they croak on error
and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

OO-interface

$json = JSON::PP->new->ascii->pretty->allow_nonref;

$pretty_printed_json_text = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

Note that JSON version 2.0 and above will automatically use
JSON::XS or JSON::PP, so you should be able to just:

use JSON;

=head1 VERSION

  4.05

=head1 DESCRIPTION

JSON::PP is a pure perl JSON decoder/encoder, and (almost) compatible to much
faster L<JSON::XS> written by Marc Lehmann in C. JSON::PP works as
a fallback module when you use L<JSON> module without having
installed JSON::XS.

Because of this fallback feature of JSON.pm,
JSON::PP tries not to
be more JavaScript-friendly than JSON::XS (i.e. not to escape extra
characters such as U+2028 and U+2029, etc),
in order for you not to lose such JavaScript-friendliness silently
when you use JSON.pm and install JSON::XS for speed or by accident.
If you need JavaScript-friendly RFC7159-compliant pure perl module,
try L<JSON::Tiny>, which is derived from L<Mojolicious> web
framework and is also smaller and faster than JSON::PP.

JSON::PP has been in the Perl core since Perl 5.14, mainly for
CPAN toolchain modules to parse META.json.

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS almost verbatim. C<encode_json>
and C<decode_json> are exported by default.

=head2 encode_json

  $json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string
(that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

  $json_text = JSON::PP->new->utf8->encode($perl_scalar)

Except
being faster.

=head2 decode_json

  $perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries
to parse that as an UTF-8 encoded JSON text, returning the resulting
reference. Croaks on error.

This function call is functionally identical to:

  $perl_scalar = JSON::PP->new->utf8->decode($json_text)

Except being faster.

=head2 JSON::PP::is_bool

  $is_boolean = JSON::PP::is_bool($scalar)

Returns true if the passed scalar represents either JSON::PP::true or
JSON::PP::false, two constants that act like C<1> and C<0> respectively
and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to
Perl.

=head1 OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or
decoding style, within the limits of supported formats.

=head2 new

  $json
 = JSON::PP->new

Creates a new JSON::PP object that can be used to de/encode JSON
strings. All boolean flags described below are by default I<disabled>
(with the exception of C<allow_nonref>, which defaults to I<enabled> since
version C<4.0>).

The mutators for flags all return the JSON::PP object again and thus calls can
be chained:

 my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})
 => {"a": [1, 2]}

=head2 ascii

  $json = $json->ascii([$enable])

  $enabled = $json->get_ascii

If C<$enable> is true (or missing), then the C<encode> method will not
generate characters outside the code range C<0..127> (which is ASCII). Any
Unicode characters outside that range will be escaped using either a
single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence,
as per RFC4627. The resulting encoded JSON text can be treated as a native

Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string,
or any other superset of ASCII.

If C<$enable>
 is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags. This results
in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be
transmitted over a 7-bit channel, as the encoded JSON texts will not
contain any 8 bit characters.

 JSON::PP->new->ascii(1)->encode([chr 0x10401])
 => ["\ud801\udc01"]

=head2 latin1

  $json = $json->latin1([$enable])

  $enabled = $json->get_latin1

If C<$enable> is true (or missing), then the C<encode> method will encode
the resulting JSON text as latin1 (or iso-8859-1), escaping any characters
outside the code range C<0..255>. The resulting string can be treated as a
latin1-encoded JSON text or a native Unicode string. The C<decode> method
will not be affected in any way by this flag, as C<decode> by default
expects Unicode, which is a strict superset of latin1.

If
 C<$enable> is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON
text, as most octets will not be escaped, resulting in a smaller encoded
size. The disadvantage is that the resulting JSON text is encoded
in latin1 (and must correctly be treated as such when storing and
transferring), a rare encoding for JSON. It is therefore most useful when
you want to store data structures known to contain binary data efficiently
in files or databases, not when talking to other JSON encoders/decoders.

 JSON::PP->new->latin1->encode (["\x{89}\x{abc}"]
 => ["\x{89}\\u0abc"]   # (perl syntax, U+abc escaped, U+89 not)

=head2 utf8

$json = $json->utf8([$enable])

$enabled = $json->get_utf8

If C<$enable> is true (or missing), then the C<encode> method will encode
the
JSON result into UTF-8, as required by many protocols, while the
C<decode> method expects to be handled an UTF-8-encoded string. Please
note that UTF-8-encoded strings do not contain any characters outside the
range C<0..255>, they are thus useful for bytewise/binary I/O. In future
versions, enabling this option might enable autodetection of the UTF-16
and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON
string as a (non-encoded) Unicode string, while C<decode> expects thus a
Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs
to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
use Encode;
$jsontext = encode "UTF-16BE", JSON::PP->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
use Encode;
$object = JSON::PP->new->decode (decode "UTF-32LE", $jsontext);
```

=head2
pretty

$json = $json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

=head2 indent

$json = $json->indent([$enable])

$enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline
format as output, putting every array member or object/hash key-value pair

into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the
resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

The default indent space length is three.
You can use C<indent_length> to change the length.

=head2 space_before

  $json = $json->space_before([$enable])

  $enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode>
 method will add an extra
optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

 {"key" :"value"}

=head2 space_after

  $json = $json->space_after([$enable])

  $enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space after the C<:> separating keys from values in JSON objects
and extra whitespace after the C<,> separating key-value pairs and array
members.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
 {"key": "value"}
```

=head2 relaxed

```
   $json = $json->relaxed([$enable])

  $enabled = $json->get_relaxed
```

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

```
 [
    1,
    2, <- this comma not normally allowed
 ]
 {
    "k1": "v1",
    "k2": "v2", <- this comma
 not normally allowed
 }
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
 [
    1, # this comment not allowed in JSON
       # neither this one...
```

```
]
```

=item * C-style multiple-line '/* */'-comments (JSON::PP only)

Whenever JSON allows whitespace, C-style multiple-line comments are additionally
allowed. Everything between C</*> and C<*/> is a comment, after which
more white-space and comments are allowed.

```
[
   1, /* this comment not allowed in JSON */
      /* neither this one... */
]
```

=item * C++-style one-line '//'-comments (JSON::PP only)

Whenever JSON allows whitespace, C++-style one-line comments are additionally
allowed. They are terminated by the first carriage-return or line-feed
character, after which more white-space and comments are allowed.

```
[
   1, // this comment
not allowed in JSON
      // neither this one...
]
```

=item * literal ASCII TAB characters in strings

Literal ASCII TAB characters are now allowed in strings (and treated as
C<\t>).

```
[
   "Hello\tWorld",
   "Hello<TAB>World", # literal <TAB> would not normally be allowed
]
```

=back

=head2 canonical

```
  $json = $json->canonical([$enable])

  $enabled = $json->get_canonical
```

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects
by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value
pairs in the order Perl stores them (which will likely change between runs

of the same script, and can change even within the same run from 5.18
onwards).

This option is useful if you want the same data structure to be encoded as
the same JSON text (given the same overall settings). If it is disabled,
the same hash might be encoded differently even if contains the same
 data,
as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

  $json = $json->allow_nonref([$enable])

  $enabled = $json->get_allow_nonref

Unlike other boolean options, this opotion is enabled by default beginning
with version C<4.0>.

If C<$enable> is true (or missing), then the C<encode> method can convert a
non-reference into its corresponding string, number or null JSON value,
which is an extension to RFC4627. Likewise, C<decode> will accept those JSON
values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't
passed an arrayref or hashref, as JSON texts must either be an object
or array. Likewise, C<decode> will croak if given something that is not a
JSON object or array.

Example, encode a Perl scalar as JSON value without enabled C<allow_nonref>,
resulting in an error:

 JSON::PP->new->allow_nonref(0)->encode
("Hello, World!")
 => hash- or arrayref expected...

=head2 allow_unknown

  $json = $json->allow_unknown([$enable])

  $enabled = $json->get_allow_unknown

If C<$enable> is true (or missing), then C<encode> will I<not> throw an
exception when it encounters values it cannot represent in JSON (for
example, filehandles) but instead will encode a JSON C<null> value. Note

that blessed objects are not included here and are handled separately by
c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to
leave it off unless you know your communications partner.

=head2 allow_blessed

  $json = $json->allow_blessed([$enable])

  $enabled = $json->get_allow_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not
barf when it encounters
 a blessed reference that it cannot convert
otherwise. Instead, a JSON C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters a blessed object that it cannot convert
otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

  $json = $json->convert_blessed([$enable])

  $enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<TO_JSON> method
on the object's class. If found, it will be called in scalar context and
the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON>
 was chosen because other
methods called by the Perl core (== not by the user of the object) are
usually in upper case letters and to avoid collisions with any C<to_json>

function or method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion.

This setting has no effect on C<decode>.

=head2 allow_tags

  $json = $json->allow_tags([$enable])

  $enabled = $json->get_allow_tags

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<FREEZE> method on
the object's class. If found, it will be used to serialise the object into
a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise
them via a call to the C<THAW> method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion, and tagged JSON values will
 cause a parse error
in C<decode>, as if tags were not part of the grammar.

=head2 boolean_values

  $json->boolean_values([$false, $true])

  ($false, $true) = $json->get_boolean_values

By default, JSON booleans will be decoded as overloaded
C<$JSON::PP::false> and C<$JSON::PP::true> objects.

With this method you can specify your own boolean values for decoding -
on decode, JSON C<false> will be decoded as a copy of C<$false>, and JSON
C<true> will be decoded as C<$true> ("copy" here is the same thing as
assigning a value to another variable, i.e. C<$copy = $false>).

This is useful when you want to pass a decoded data structure directly
to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible
boolean objects (like L<boolean>), but when you C<encode> a data structure
with such boolean objects, you still need to enable C<convert_blessed>

(and add a C<TO_JSON> method if necessary).

Calling this method
without any arguments will reset the booleans
to their default values.

C<get_boolean_values> will return both C<$false> and C<$true> values, or
the empty list when they are set to the default.

=head2 filter_json_object

```
$json = $json->filter_json_object([$coderef])
```

When C<$coderef> is specified, it will be called from C<decode> each
time it decodes a JSON object. The only argument is a reference to
the newly-created hash. If the code references returns a single scalar
(which need not be a reference), this value (or rather a copy of it) is
inserted into the deserialised data structure. If it returns an empty
list (NOTE: I<not> C<undef>, which is a valid scalar), the original
deserialised hash will be inserted. This setting can slow down decoding
considerably.

When C<$coderef> is omitted or undefined, any existing callback will
be removed and C<decode> will not change the deserialised hash in any
way.

Example, convert all JSON objects into the integer 5:

```
my $js = JSON::PP->new->filter_json_object(sub
{ 5 });
# returns [5]
$js->decode('[{}]');
# returns 5
$js->decode('{"a":1, "b":2}');
```

=head2 filter_json_single_key_object

```
$json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object> one, decoding speed will not usually suffer as much.
Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even things like C<__class_md5sum(classname)__>, to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >> into the corresponding C<< $WIDGET{<id>} >> object:

```
 # return whatever is in $WIDGET{5}:
 JSON::PP
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
          $WIDGET{ $_[0] }
       })
    ->decode ('{"__widget__": 5')

 # this can be used with a TO_JSON method in some "widget" class
 # for serialisation to
json:
 sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
       $self->{id} = ..get..some..id..;
       $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
 }
```

=head2 shrink

```
  $json = $json->shrink([$enable])

  $enabled = $json->get_shrink
```

If C<$enable> is true (or missing), the string returned by C<encode> will
be shrunk (i.e. downgraded if possible).

The actual definition of what shrink does might change in future versions,
but it will always try to save space at the expense of time.

If C<$enable> is false, then JSON::PP does nothing.

=head2 max_depth

  $json = $json->max_depth([$maximum_nesting_depth])

  $max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of
 hash- or arrayrefs that the encoder
needs to traverse to reach a given point or the number of C<{> or C<[>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures
that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

  $json = $json->max_size([$maximum_string_size])

  $max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is
being attempted. The default is C<0>, meaning no limit. When C<decode>
is called on a string that is longer then this many bytes, it will not
attempt to decode the string but throw an exception. This setting has no
effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same

as when
C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

  $json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON
representation. Croaks on error.

=head2 decode

  $perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it,
returning the resulting simple scalar or reference. Croaks on error.

=head2 decode_prefix

  ($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception
when there is trailing garbage after the first JSON object, it will
silently stop parsing there and return the number of characters consumed
so far.

This is useful if your JSON texts are not delimited by an outer protocol
and you need to know where the JSON text ends.

 JSON::PP->new->decode_prefix ("[1] the tail")
 => ([1], 3)

=head1 FLAGS FOR JSON::PP ONLY

The
 following flags and properties are for JSON::PP only. If you use
any of these, you can't make your application run faster by replacing
JSON::PP with JSON::XS. If you need these and also speed boost,
you might want to try L<Cpanel::JSON::XS>, a fork of JSON::XS by
Reini Urban, which supports some of these (with a different set of
incompatibilities). Most of these historical flags are only kept
for backward compatibility, and should not be used in a new application.

=head2 allow_singlequote

  $json = $json->allow_singlequote([$enable])

```
  $enabled = $json->get_allow_singlequote
```

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain strings that begin and end with
single quotation marks. C<encode> will not be affected in any way.
I<Be aware that this option makes you accept invalid JSON texts
as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files etc.)

If
 C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
  $json->allow_singlequote->decode(qq|{"foo":'bar'}|);
  $json->allow_singlequote->decode(qq|{'foo':"bar"}|);
  $json->allow_singlequote->decode(qq|{'foo':'bar'}|);
```

=head2 allow_barekey

```
  $json = $json->allow_barekey([$enable])
  $enabled = $json->get_allow_barekey
```

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain JSON objects whose names don't
begin and end with quotation marks. C<encode> will not be affected
in any way. I<Be aware that this option makes you accept invalid JSON
texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
  $json->allow_barekey->decode(qq|{foo:"bar"}|);
```

=head2 allow_bignum

```
  $json = $json->allow_bignum([$enable])
   $enabled = $json->get_allow_bignum
```

If C<$enable> is true (or missing), then C<decode> will convert
big integers Perl cannot handle as integer into L<Math::BigInt>
objects and convert floating numbers into L<Math::BigFloat>
objects. C<encode> will convert C<Math::BigInt> and C<Math::BigFloat>
objects into JSON numbers.

```
 $json->allow_nonref->allow_bignum;
```

```
  $bigfloat = $json->decode('2.000000000000000000000000001');
  print $json->encode($bigfloat);
  # => 2.000000000000000000000000001
```

See also L<MAPPING>.

=head2 loose

```
   $json = $json->loose([$enable])
   $enabled = $json->get_loose
```

If C<$enable> is true (or missing), then C<decode> will accept
invalid JSON texts that contain unescaped [\x00-\x1f\x22\x5c]
characters. C<encode> will not be affected in any way.
I<Be aware that this option makes you accept invalid JSON texts
as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration
files, resource files
 etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

```
   $json->loose->decode(qq|["abc
                           def"]|);
```

=head2 escape_slash

```
   $json = $json->escape_slash([$enable])
   $enabled = $json->get_escape_slash
```

If C<$enable> is true (or missing), then C<encode> will explicitly
escape I<slash> (solidus; C<U+002F>) characters to reduce the risk of
XSS (cross site scripting) that may be caused by C<< </script> >>
in a JSON text, with the cost of bloating the size of JSON texts.

This option may be useful when you embed JSON in HTML, but embedding
arbitrary JSON in HTML (by some HTML template toolkit or by string
interpolation) is risky in general. You must escape necessary
characters in correct order, depending on the context.

C<decode> will not be affected in any way.

=head2 indent_length

```
   $json = $json->indent_length($number_of_spaces)
   $length = $json->get_indent_length
```

This option is only useful when you
also enable C<indent> or C<pretty>.

JSON::XS indents with three spaces when you C<encode> (if requested
by C<indent> or C<pretty>), and the number cannot be changed.
JSON::PP allows you to change/get the number of indent spaces with these
mutator/accessor. The default number of spaces is three (the same as
JSON::XS), and the acceptable range is from C<0> (no indentation;
it'd be better to disable indentation by C<indent(0)>) to C<15>.

=head2 sort_by

```
$json = $json->sort_by($code_ref)
$json = $json->sort_by($subroutine_name)
```

If you just want to sort keys (names) in JSON objects when you
C<encode>, enable C<canonical> option (see above) that allows you to
sort object keys alphabetically.

If you do need to sort non-alphabetically for whatever reasons,
you can give a code reference (or a subroutine name) to C<sort_by>,
then the argument will be passed to Perl's C<sort> built-in function.

As the sorting is done in the JSON::PP scope, you usually need to
prepend C<JSON::PP::>
to the subroutine name, and the special variables
C<$a> and C<$b> used in the subrontine used by C<sort> function.

Example:

```
my %ORDER = (id => 1, class => 2, name => 3);
$json->sort_by(sub {
   ($ORDER{$JSON::PP::a} // 999) <=> ($ORDER{$JSON::PP::b} // 999)
   or $JSON::PP::a cmp $JSON::PP::b
});
print $json->encode([
   {name => 'CPAN', id => 1, href => 'http://cpan.org'}
]);
# [{"id":1,"name":"CPAN","href":"http://cpan.org"}]
```

Note that C<sort_by> affects all the plain hashes in the data structure.
If you need finer control, C<tie> necessary hashes with a module that
implements ordered hash (such as L<Hash::Ordered> and L<Tie::IxHash>).
C<canonical> and C<sort_by> don't affect the key order in C<tie>d
hashes.

```
use Hash::Ordered;
tie my %hash, 'Hash::Ordered',
```

```
    (name => 'CPAN', id => 1, href => 'http://cpan.org');
 print $json->encode([\%hash]);
 # [{"name":"CPAN","id":1,"href":"http://cpan.org"}] # order is kept
```

=head1 INCREMENTAL PARSING

This
section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON
texts. While this module always has to keep both JSON text and resulting
Perl data structure in memory at one time, it does allow you to parse a
JSON stream incrementally. It does so by accumulating text until it has
a full JSON object, which it then can decode. This process is similar to
using C<decode_prefix> to see if a full JSON object is available, but
is much more efficient (and can be implemented with a minimum of method
calls).

JSON::PP will only attempt to parse the JSON text once it is sure it
has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect mismatched
parentheses. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g.
C<max_size>) to ensure the parser will stop
parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

```
  $json->incr_parse( [$string] ) # void context

  $obj_or_undef = $json->incr_parse( [$string] ) # scalar context

  @obj_or_empty = $json->incr_parse( [$string] ) # list context
```

This is the central parsing function. It can both append new text and
extract objects from the stream accumulated so far (both of these
functions are optional).

If C<$string> is given, then this string is appended to the already
existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply
return without doing anything further. This can be used to add more text
in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>.
 If there is a parse error,
this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators (other than whitespace) between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
  my @objs = JSON::PP->new->incr_parse ("[5][7][1,2]");
```

=head2 incr_text

```
  $lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar
 context> successfully returned an object. Under
all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

```
  $json->incr_skip
```

This will reset the state of the incremental parser and will remove

the parsed text from the input buffer so far. This is useful after
C<incr_parse> died, in which case the input buffer and incremental parser
state is left unchanged, to skip the text parsed so far and to reset the
parse state.

The difference
 to C<incr_reset> is that only text until the parse error
occurred is removed.

=head2 incr_reset

  $json->incr_reset

This completely resets the incremental parser, that is, after this call,
it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to
ignore any trailing data, which means you have to reset the parser after
each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how JSON::PP maps Perl values to JSON values and
vice versa. These mappings are designed to "do the right thing" in most
circumstances automatically, preserving round-tripping characteristics
(what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions,
lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl>
refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object
 becomes a reference to a hash in Perl. No ordering of object
keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON
are represented by the same codepoints in the Perl string, so no manual
decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or
string scalar in perl, depending on its range and any fractional parts. On
the Perl level, there is no difference between those as Perl handles all
the conversion details, but an integer may take slightly less memory and
might represent more values exactly than floating point numbers.

If the number consists of digits only, JSON::PP will try to represent
it as an integer value. If that fails, it will try to represent it as
a numeric (floating point) value if that is possible without loss of
precision. Otherwise it will preserve
 the number as a string value (in
which case you lose roundtripping ability, as the JSON number will be
re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be
represented as numeric (floating point) values, possibly at a loss of
precision (in which case you might lose perfect roundtripping ability, but
the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot
represent most decimal fractions exactly, and when converting from and to
floating point, JSON::PP only guarantees precision up to but not including
the least significant bit.

When C<allow_bignum> is enabled, big integer values and any numeric
values will be converted into L<Math::BigInt> and L<Math::BigFloat>
objects respectively, without becoming string scalars or losing
precision.

=item true, false

These JSON atoms become C<JSON::PP::true> and C<JSON::PP::false>,
respectively. They are overloaded to act
 almost exactly like the numbers
C<1> and C<0>. You can check whether a scalar is a JSON boolean by using
the C<JSON::PP::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the C<relaxed> setting, shell-style comments are allowed. They can start anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard extension to the JSON syntax, enabled with the C<allow_tags> setting, are tagged values. In this implementation, the I<tag> must be a perl package/class name encoded as a JSON string, and the I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl
value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order. JSON::PP can optionally sort the hash keys (determined by the I<canonical> flag and/or I<sort_by> property), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::PP), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::PP::false> and C<JSON::PP::true> to improve

readability.

```
  to_json [\0, JSON::PP::true]      # yields [false,true]
```

=item
JSON::PP::true, JSON::PP::false

These special values become JSON true and JSON false values,
respectively. You can also use C<\1> and C<\0> directly if you want.

=item JSON::PP::null

This special value becomes JSON null.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::PP>
allows various ways of handling objects. See L<OBJECT SERIALISATION>,
below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most
difficult objects to encode: JSON::PP will encode undefined scalars as
JSON C<null> values, scalars that have last been used in a string context
before encoding as JSON strings, and anything else as number value:

```
  # dump as number
  encode_json [2]                    # yields [2]
  encode_json [-3.0e17]              # yields [-3e+17]
  my $value = 5; encode_json [$value]  # yields [5]

  # used as string, so dump as string
  print $value;
  encode_json [$value]
        # yields ["5"]

  # undef becomes null
  encode_json [undef]                # yields [null]
```

You can force the type to be a JSON string by stringifying it:

```
  my $x = 3.1; # some variable containing a number
  "$x";       # stringified
  $x .= "";    # another, more awkward way to stringify
  print $x;    # perl does it for you, too, quite often
             # (but for older perls)
```

You can force the type to be a JSON number by numifying it:

```
  my $x = "3"; # some variable containing a string
  $x += 0;     # numify it, ensuring it will be dumped as a number
  $x *= 1;     # same thing, the choice is yours.
```

You can not currently force the type in other, less obscure, ways.

Since version 2.91_01, JSON::PP uses a different number detection logic
that converts a scalar that is possible to turn into a number safely.
The new logic is slightly faster, and tends to help people who use older
perl or who want to encode complicated data structure. However, this may
results
 in a different JSON text from the one JSON::XS encodes (and
thus may break tests that compare entire JSON texts). If you do
need the previous behavior for compatibility or for finer control,
set PERL_JSON_PP_USE_B environmental variable to true before you
C<use> JSON::PP (or JSON.pm).

Note that numerical precision has the same meaning as under Perl (so
binary to decimal conversion follows the same rules as in Perl, which
can differ to other languages). Also, your perl interpreter might expose
extensions to the floating point numbers of your platform, such as
infinities or NaN's - these cannot be represented in JSON, and it is an
error to pass those in.

JSON::PP (and JSON::XS) trusts what you pass to C<encode> method
(or C<encode_json> function) is a clean, validated data structure with
values that can be represented as valid JSON values only, because it's
not from an external data source (as opposed to JSON texts you pass to
C<decode> or C<decode_json>, which JSON::PP considers tainted
 and
doesn't trust). As JSON::PP doesn't know exactly what you and consumers
of your JSON texts want the unexpected values to be (you may want to
convert them into null, or to stringify them with or without
normalisation (string representation of infinities/NaN may vary
depending on platforms), or to croak without conversion), you're advised
to do what you and your consumers need before you encode, and also not
to numify values that may start with values that look like a number
(including infinities/NaN), without validating.

=back

=head2 OBJECT SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between
a pure JSON representation (without the ability to deserialise the object
automatically again), and a nonstandard extension to the JSON syntax,

tagged values.

=head3 SERIALISATION

What happens when C<JSON::PP> encounters a Perl object depends on the C<allow_blessed>, C<convert_blessed>, C<allow_tags> and C<allow_bignum> settings, which are used in
 this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON::PP> creates a tagged JSON value, using a nonstandard extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first argument being the object to serialise, and the second argument being the constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or more). These values and the paclkage/classname of the object will then be encoded as a tagged JSON value in the following format:

 ("classname")[FREEZE return values...]

e.g.:

 ("URI")["http://www.google.com/"]
 ("MyDate")[2013,10,29]
 ("ImageData::JPEG")["Z3...VlCg=="]

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

 sub My::Object::FREEZE {
    my ($self, $serialiser) = @_;

    ($self->{type}, $self->{id})
  }

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI>

objects to JSON strings when serialised. The fact that these values
originally were L<URI> objects is lost.

```
sub URI::TO_JSON {
   my ($uri) = @_;
   $uri->as_string
}
```

=item 3. C<allow_bignum> is enabled and the object is a C<Math::BigInt> or C<Math::BigFloat>.

The object will be serialised as a JSON number value.

=item 4. C<allow_blessed> is enabled.

The object will be serialised as a JSON null value.

=item 5. none of the above

If none of the settings are enabled or the respective methods are missing,
C<JSON::PP> throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider:
 either
nonstandard tagging was used, in which case C<allow_tags> decides,
or objects cannot be automatically be deserialised, in which
case you can use postprocessing or the C<filter_json_object> or
C<filter_json_single_key_object> callbacks to get some real objects our of
your JSON.

This section only considers the tagged value case: a tagged JSON object
is encountered during decoding and C<allow_tags> is disabled, a parse
error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, C<JSON::PP> will look up the C<THAW> method
of the package/classname used during serialisation (it will not attempt
to load the package as a Perl module). If there is no such method, the
decoding will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first
argument, the constant string C<JSON> as second argument, and all the
values from the JSON array (the values originally returned by the
C<FREEZE> method) as remaining arguments.

The

method must then return the object. While technically you can return
any Perl scalar, you might have to enable the C<allow_nonref> setting to
make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the
C<My::Object> from the C<FREEZE> example earlier:

```
sub My::Object::THAW {
   my ($class, $serialiser, $type, $id) = @_;

   $class->new (type => $type, id => $id)
}
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify
encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be
some confusion on what these do, so here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected
by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only
control whether C<encode> escapes character values outside their respective
codeset range. Neither
of these flags conflict with each other, although
some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to
C<encode> and C<decode>, that is, texts encoded with any combination of
these flag values will be correctly decoded when the same flags are used
- in general, if you use different flag settings while encoding vs. when
decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is
simply an abstract set of character-codepoint pairs, while an encoding
takes those codepoint numbers and I<encodes> them, in our case into
octets. Unicode is (among other things) a codeset, UTF-8 is an encoding,
and ISO-8859-1 (= latin 1) and ASCII are both codesets I<and> encodings at
the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate
and expect Unicode strings, that is, characters with high

ordinal Unicode
values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The
C<utf8> flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while
ASCII-encoded strings are. That is because the ISO-8859-1
encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input
values as governed by the C<utf8> flag. If it is disabled, this allows you
to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of
Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag -
they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data
as JSON, at the expense of breaking compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters
with values > 127, which means you can interpret the resulting string
as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and
8-bit-encoding,
 and still get the same data structure back. This is useful
when your channel for JSON transfer is not 8-bit clean or the encoding
might be mangled in between (e.g. in mail), and works because ASCII is a
proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BUGS

Please report bugs on a specific behavior of this module to RT or GitHub
issues (preferred):

L<https://github.com/makamaka/JSON-PP/issues>

L<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON-PP>

As for new features and requests to change common behaviors, please
ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>)
first, by email (important!), to keep compatibility among JSON.pm backends.

Generally speaking, if you need something special for you, you are advised
to create a new module, maybe based on L<JSON::Tiny>, which is smaller and
written in a much cleaner way than this module.

=head1 SEE ALSO

The F<json_pp> command line utility for quick experiments.

L<JSON::XS>,
 L<Cpanel::JSON::XS>, and L<JSON::Tiny> for faster alternatives.
L<JSON> and L<JSON::MaybeXS> for easy migration.

L<JSON::backportPP::Compat5005> and L<JSON::backportPP::Compat5006> for older perl users.

RFC4627 (L<http://www.ietf.org/rfc/rfc4627.txt>)

RFC7159 (L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

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=head1 COPYRIGHT AND LICENSE

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Most of the documentation is taken from JSON::XS by Marc Lehmann

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP.pm
No license file was found, but licenses were detected in source scan.

```
use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/;
```

```
my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;


printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );


print "-----------------------------------\n";
print "->decode()\n";
print "-----------------------------------\n";

$result = timethese( -$wanttime,
  {
    'JSON::PP' => sub { $pp->decode( $json ) },
    'JSON::XS' => sub { $xs->decode( $json ) },
  },
  'none'
);
cmpthese( $result );

print "-----------------------------------\n";


__END__

=pod

=head1 SYNOPSYS

 bench_decode.pl json-file
 # or
 bench_decode.pl json-file
 minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

=head1 AUTHOR

makamaka

=head1 LISENCE

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.
```

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/eg/bench_decode.pl
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON::PP::Boolean - dummy module providing JSON::PP::Boolean

=head1 SYNOPSIS

do not "use" yourself

=head1 DESCRIPTION

This module exists only to provide overload resolution for Storable and similar modules. See
L<JSON::PP> for more info about this class.

=head1 AUTHOR

This idea is from L<JSON::XS::Boolean> written by Marc Lehmann <schmorp[at]schmorp.de>

=head1 LICENSE

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Boolean.pm
No license file was found, but licenses were detected in source scan.

=pod

=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>

=head1 COPYRIGHT AND LICENSE

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON/backportPP/Compat5005.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

JSON - JSON (JavaScript Object Notation) encoder/decoder

=head1 SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

OO-interface

$json = JSON->new->allow_nonref;

$json_text   = $json->encode($perl_scalar);
$perl_scalar = $json->decode($json_text);

$pretty_printed = $json->pretty->encode($perl_scalar); # pretty-printing

=head1 VERSION

  4.02

=head1 DESCRIPTION

This module is a thin wrapper for L<JSON::XS>-compatible modules with a few
additional features. All the backend modules convert a Perl data structure
to a JSON text and vice versa. This module uses L<JSON::XS> by default,
and when JSON::XS is not available, falls back on L<JSON::PP>, which is
in the Perl core since

5.14. If JSON::PP is not available either, this
module then falls back on JSON::backportPP (which is actually JSON::PP
in a different .pm file) bundled in the same distribution as this module.
You can also explicitly specify to use L<Cpanel::JSON::XS>, a fork of
JSON::XS by Reini Urban.

All these backend modules have slight incompatibilities between them,
including extra features that other modules don't support, but as long as you
use only common features (most important ones are described below), migration
from backend to backend should be reasonably easy. For details, see each
backend module you use.

=head1 CHOOSING BACKEND

This module respects an environmental variable called C<PERL_JSON_BACKEND>
when it decides a backend module to use. If this environmental variable is
not set, it tries to load JSON::XS, and if JSON::XS is not available, it
falls back on JSON::PP, and then JSON::backportPP if JSON::PP is not available
either.

If you always don't want it to fall back on pure
perl modules, set the
variable like this (C<export> may be C<setenv>, C<set> and the likes,
depending on your environment):

```
> export PERL_JSON_BACKEND=JSON::XS
```

If you prefer Cpanel::JSON::XS to JSON::XS, then:

```
> export PERL_JSON_BACKEND=Cpanel::JSON::XS,JSON::XS,JSON::PP
```

You may also want to set this variable at the top of your test files, in order
not to be bothered with incompatibilities between backends (you need to wrap
this in C<BEGIN>, and set before actually C<use>-ing JSON module, as it decides
its backend as soon as it's loaded):

```
BEGIN { $ENV{PERL_JSON_BACKEND}='JSON::backportPP'; }
use JSON;
```

=head1 USING OPTIONAL FEATURES

There are a few options you can set when you C<use> this module.
These historical options are only kept for backward compatibility,
and should not be used in a new application.

=over

=item -support_by_pp

```
 BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

 use JSON -support_by_pp;

 my $json = JSON->new;
 # escape_slash is for
JSON::PP only.
 $json->allow_nonref->escape_slash->encode("/");
```

With this option, this module loads its pure perl backend along with its XS backend (if available), and lets the XS backend to watch if you set a flag only JSON::PP supports. When you do, the internal JSON::XS object is replaced with a newly created JSON::PP object with the setting copied from the XS object, so that you can use JSON::PP flags (and its slower C<decode>/C<encode> methods) from then on. In other words, this is not something that allows you to hook JSON::XS to change its behavior while keeping its speed. JSON::XS and JSON::PP objects are quite different (JSON::XS object is a blessed scalar reference, while JSON::PP object is a blessed hash reference), and can't share their internals.

To avoid needless overhead (by copying settings), you are advised not to use this option and just to use JSON::PP explicitly when you need JSON::PP features.

=item -convert_blessed_universally

```
 use JSON -convert_blessed_universally;

  my $json = JSON->new->allow_nonref->convert_blessed;
 my $object = bless {foo => 'bar'}, 'Foo';
 $json->encode($object); # => {"foo":"bar"}
```

JSON::XS-compatible backend modules don't encode blessed objects by default (except for their boolean values, which are typically blessed JSON::PP::Boolean objects). If you need to encode a data structure that may contain objects, you usually need to look into the structure and replace objects with alternative non-blessed values, or enable C<convert_blessed> and provide a C<TO_JSON> method for each object's (base) class that may be found in the structure, in order to let the methods replace the objects with whatever scalar values the methods return.

If you need to serialise data structures that may contain arbitrary objects, it's probably better to use other serialisers (such as L<Sereal> or L<Storable> for example), but if you do want to use this module for that purpose, C<-convert_blessed_universally> option may help, which tweaks

C<encode> method of the backend to install
C<UNIVERSAL::TO_JSON> method (locally) before encoding, so that
all the objects that don't have their own C<TO_JSON> method can
fall back on the method in the C<UNIVERSAL> namespace. Note that you
still need to enable C<convert_blessed> flag to actually encode
objects in a data structure, and C<UNIVERSAL::TO_JSON> method
installed by this option only converts blessed hash/array references
into their unblessed clone (including private keys/values that are
not supposed to be exposed). Other blessed references will be
converted into null.

This feature is experimental and may be removed in the future.

=item -no_export

When you don't want to import functional interfaces from a module, you
usually supply C<()> to its C<use> statement.

```
use JSON (); # no functional interfaces
```

If you don't want to import functional interfaces, but you also want to
use any of the above options, add C<-no_export> to the option list.

```
# no functional interfaces,
while JSON::PP support is enabled.
use JSON -support_by_pp, -no_export;
```

=back

=head1 FUNCTIONAL INTERFACE

This section is taken from JSON::XS. C<encode_json> and C<decode_json>
are exported by default.

This module also exports C<to_json> and C<from_json> for backward
compatibility. These are slower, and may expect/generate different stuff
from what C<encode_json> and C<decode_json> do, depending on their
options. It's better just to use Object-Oriented interfaces than using
these two functions.

=head2 encode_json

```
$json_text = encode_json $perl_scalar
```

Converts the given Perl data structure to a UTF-8 encoded, binary string
(that is, the string contains octets only). Croaks on error.

This function call is functionally identical to:

```
  $json_text = JSON->new->utf8->encode($perl_scalar)
```

Except being faster.

=head2 decode_json

```
  $perl_scalar = decode_json $json_text
```

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries
to parse that as an
 UTF-8 encoded JSON text, returning the resulting
reference. Croaks on error.

This function call is functionally identical to:

```
  $perl_scalar = JSON->new->utf8->decode($json_text)
```

Except being faster.

=head2 to_json

```
  $json_text = to_json($perl_scalar[, $optional_hashref])
```

Converts the given Perl data structure to a Unicode string by default.
Croaks on error.

Basically, this function call is functionally identical to:

```
  $json_text = JSON->new->encode($perl_scalar)
```

Except being slower.

You can pass an optional hash reference to modify its behavior, but
that may change what C<to_json> expects/generates (see
C<ENCODING/CODESET FLAG NOTES> for details).

```
  $json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
  # => JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

=head2 from_json

```
  $perl_scalar = from_json($json_text[, $optional_hashref])
```

The opposite of C<to_json>: expects a Unicode string and tries
to parse it, returning the resulting reference. Croaks on error.

Basically,

this function call is functionally identical to:

  $perl_scalar = JSON->new->decode($json_text)

You can pass an optional hash reference to modify its behavior, but
that may change what C<from_json> expects/generates (see
C<ENCODING/CODESET FLAG NOTES> for details).

  $perl_scalar = from_json($json_text, {utf8 => 1})
  # => JSON->new->utf8(1)->decode($json_text)

=head2 JSON::is_bool

  $is_boolean = JSON::is_bool($scalar)

Returns true if the passed scalar represents either JSON::true or
JSON::false, two constants that act like C<1> and C<0> respectively
and are also used to represent JSON C<true> and C<false> in Perl strings.

See L<MAPPING>, below, for more information on how JSON values are mapped to
Perl.

=head1 COMMON OBJECT-ORIENTED INTERFACE

This section is also taken from JSON::XS.

The object oriented interface lets you configure your own encoding or
decoding style, within the limits of supported formats.

=head2 new

  $json = JSON->new

Creates
a new JSON::XS-compatible backend object that can be used to de/encode JSON
strings. All boolean flags described below are by default I<disabled>
(with the exception of C<allow_nonref>, which defaults to I<enabled> since
version C<4.0>).

The mutators for flags all return the backend object again and thus calls can
be chained:

 my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
 => {"a": [1, 2]}

=head2 ascii

  $json = $json->ascii([$enable])

$enabled = $json->get_ascii

If C<$enable> is true (or missing), then the C<encode> method will not
generate characters outside the code range C<0..127> (which is ASCII). Any
Unicode characters outside that range will be escaped using either a
single \uXXXX (BMP characters) or a double \uHHHH\uLLLLL escape sequence,
as per RFC4627. The resulting encoded JSON text can be treated as a native
Unicode string, an ascii-encoded, latin1-encoded or UTF-8 encoded string,
or any other superset of ASCII.

If C<$enable> is false,
 then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags. This results
in a faster and more compact format.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is to produce JSON texts that can be
transmitted over a 7-bit channel, as the encoded JSON texts will not
contain any 8 bit characters.

 JSON->new->ascii(1)->encode([chr 0x10401])
 => ["\ud801\udc01"]

=head2 latin1

$json = $json->latin1([$enable])

$enabled = $json->get_latin1

If C<$enable> is true (or missing), then the C<encode> method will encode
the resulting JSON text as latin1 (or iso-8859-1), escaping any characters
outside the code range C<0..255>. The resulting string can be treated as a
latin1-encoded JSON text or a native Unicode string. The C<decode> method
will not be affected in any way by this flag, as C<decode> by default
expects Unicode, which is a strict superset of latin1.

If C<$enable>
 is false, then the C<encode> method will not escape Unicode
characters unless required by the JSON syntax or other flags.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

The main use for this flag is efficiently encoding binary data as JSON
text, as most octets will not be escaped, resulting in a smaller encoded
size. The disadvantage is that the resulting JSON text is encoded
in latin1 (and must correctly be treated as such when storing and

transferring), a rare encoding for JSON. It is therefore most useful when
you want to store data structures known to contain binary data efficiently
in files or databases, not when talking to other JSON encoders/decoders.

```
 JSON->new->latin1->encode (["\x{89}\x{abc}"]
 => ["\x{89}\\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)
```

=head2 utf8

```
   $json = $json->utf8([$enable])

   $enabled = $json->get_utf8
```

If C<$enable> is true (or missing), then the C<encode> method will encode
the JSON result into UTF-8,
 as required by many protocols, while the
C<decode> method expects to be handled an UTF-8-encoded string. Please
note that UTF-8-encoded strings do not contain any characters outside the
range C<0..255>, they are thus useful for bytewise/binary I/O. In future
versions, enabling this option might enable autodetection of the UTF-16
and UTF-32 encoding families, as described in RFC4627.

If C<$enable> is false, then the C<encode> method will return the JSON
string as a (non-encoded) Unicode string, while C<decode> expects thus a
Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs
to be done yourself, e.g. using the Encode module.

See also the section I<ENCODING/CODESET FLAG NOTES> later in this document.

Example, output UTF-16BE-encoded JSON:

```
 use Encode;
 $jsontext = encode "UTF-16BE", JSON->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```
 use Encode;
 $object = JSON->new->decode (decode "UTF-32LE", $jsontext);
```

=head2 pretty

```
   $json =
 $json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

=head2 indent

  $json = $json->indent([$enable])

  $enabled = $json->get_indent

If C<$enable> is true (or missing), then the C<encode> method will use a multiline
format as output, putting every array member or object/hash key-value pair
into its own line, indenting them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the
resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.

=head2 space_before

  $json = $json->space_before([$enable])

  $enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false,
 then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts. You will also
most likely combine this setting with C<space_after>.

Example, space_before enabled, space_after and indent disabled:

  {"key" :"value"}

=head2 space_after

  $json = $json->space_after([$enable])

  $enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space after the C<:> separating keys from values in JSON objects
and extra whitespace after the C<,> separating key-value pairs and array
members.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

```
  {"key": "value"}
```

=head2 relaxed

```
   $json = $json->relaxed([$enable])

   $enabled = $json->get_relaxed
```

If C<$enable> is true (or missing), then
 C<decode> will accept some
extensions to normal JSON syntax (see below). C<encode> will not be
affected in any way. I<Be aware that this option makes you accept invalid
JSON texts as if they were valid!>. I suggest only to use this option to
parse application-specific files written by humans (configuration files,
resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept
valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This
can be annoying if you write JSON texts manually and want to be able to
quickly append elements, so this extension accepts comma at the end of
such items not just between them:

```
 [
    1,
    2, <- this comma not normally allowed
 ]
 {
    "k1": "v1",
    "k2": "v2", <- this comma not normally allowed
 }
```

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are

additionally
allowed. They are terminated by the first carriage-return or line-feed
character, after which more white-space and comments are allowed.

```
[
   1, # this comment not allowed in JSON
     # neither this one...
]
```

=back

=head2 canonical

```
  $json = $json->canonical([$enable])

  $enabled = $json->get_canonical
```

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects
by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value
pairs in the order Perl stores them (which will likely change between runs
of the same script, and can change even within the same run from 5.18
onwards).

This option is useful if you want the same data structure to be encoded as
the same JSON text (given the same overall settings). If it is disabled,
the same hash might be encoded differently even if contains the same data,
as key-value pairs have no inherent ordering in Perl.

This
setting has no effect when decoding JSON texts.

This setting has currently no effect on tied hashes.

=head2 allow_nonref

```
  $json = $json->allow_nonref([$enable])

  $enabled = $json->get_allow_nonref
```

Unlike other boolean options, this option is enabled by default beginning
with version C<4.0>.

If C<$enable> is true (or missing), then the C<encode> method can convert a
non-reference into its corresponding string, number or null JSON value,
which is an extension to RFC4627. Likewise, C<decode> will accept those JSON
values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't
passed an arrayref or hashref, as JSON texts must either be an object
or array. Likewise, C<decode> will croak if given something that is not a
JSON object or array.

Example, encode a Perl scalar as JSON value with enabled C<allow_nonref>,
resulting in an invalid JSON text:

```
 JSON->new->allow_nonref->encode ("Hello, World!")
 => "Hello, World!"
```

=head2
allow_unknown

```
  $json = $json->allow_unknown ([$enable])

  $enabled = $json->get_allow_unknown
```

If C<$enable> is true (or missing), then C<encode> will I<not> throw an
exception when it encounters values it cannot represent in JSON (for
example, filehandles) but instead will encode a JSON C<null> value. Note
that blessed objects are not included here and are handled separately by
c<allow_blessed>.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters anything it cannot encode as JSON.

This option does not affect C<decode> in any way, and it is recommended to
leave it off unless you know your communications partner.

=head2 allow_blessed

```
  $json = $json->allow_blessed([$enable])

  $enabled = $json->get_allow_blessed
```

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then the C<encode> method will not
barf when it encounters a blessed reference that it cannot convert
otherwise. Instead, a JSON
 C<null> value is encoded instead of the object.

If C<$enable> is false (the default), then C<encode> will throw an
exception when it encounters a blessed object that it cannot convert
otherwise.

This setting has no effect on C<decode>.

=head2 convert_blessed

  $json = $json->convert_blessed([$enable])

  $enabled = $json->get_convert_blessed

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<TO_JSON> method
on the object's class. If found, it will be called in scalar context and
the resulting scalar will be encoded instead of the object.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON>
returns other blessed objects, those will be handled in the same
way. C<TO_JSON> must take care of not causing an endless recursion cycle
(== crash) in this case. The name of C<TO_JSON> was chosen because other
methods called by the Perl core (== not by
 the user of the object) are
usually in upper case letters and to avoid collisions with any C<to_json>
function or method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion.

This setting has no effect on C<decode>.

=head2 allow_tags (since version 3.0)

  $json = $json->allow_tags([$enable])

  $enabled = $json->get_allow_tags

See L<OBJECT SERIALISATION> for details.

If C<$enable> is true (or missing), then C<encode>, upon encountering a
blessed object, will check for the availability of the C<FREEZE> method on
the object's class. If found, it will be used to serialise the object into
a nonstandard tagged JSON value (that JSON decoders cannot decode).

It also causes C<decode> to parse such tagged JSON values and deserialise
them via a call to the C<THAW> method.

If C<$enable> is false (the default), then C<encode> will not consider
this type of conversion, and tagged JSON values will cause a parse error
in C<decode>, as if tags were

not part of the grammar.

=head2 boolean_values (since version 4.0)

  $json->boolean_values([$false, $true])

  ($false, $true) = $json->get_boolean_values

By default, JSON booleans will be decoded as overloaded
C<$JSON::false> and C<$JSON::true> objects.

With this method you can specify your own boolean values for decoding -
on decode, JSON C<false> will be decoded as a copy of C<$false>, and JSON
C<true> will be decoded as C<$true> ("copy" here is the same thing as
assigning a value to another variable, i.e. C<$copy = $false>).

This is useful when you want to pass a decoded data structure directly
to other serialisers like YAML, Data::MessagePack and so on.

Note that this works only when you C<decode>. You can set incompatible
boolean objects (like L<boolean>), but when you C<encode> a data structure
with such boolean objects, you still need to enable C<convert_blessed>
(and add a C<TO_JSON> method if necessary).

Calling this method without any arguments will reset the
 booleans
to their default values.

C<get_boolean_values> will return both C<$false> and C<$true> values, or
the empty list when they are set to the default.

=head2 filter_json_object

  $json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each
time it decodes a JSON object. The only argument is a reference to
the newly-created hash. If the code references returns a single scalar
(which need not be a reference), this value (or rather a copy of it) is
inserted into the deserialised data structure. If it returns an empty
list (NOTE: I<not> C<undef>, which is a valid scalar), the original
deserialised hash will be inserted. This setting can slow down decoding
considerably.

When C<$coderef> is omitted or undefined, any existing callback will
be removed and C<decode> will not change the deserialised hash in any
way.

Example, convert all JSON objects into the integer 5:

```
 my $js = JSON->new->filter_json_object(sub { 5 });
 #
returns [5]
 $js->decode('[{}]');
 # returns 5
 $js->decode('{"a":1, "b":2}');
```

=head2 filter_json_single_key_object

```
  $json = $json->filter_json_single_key_object($key [=> $coderef])
```

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent
 targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or
C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even
things like C<__class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< $WIDGET{<id>} >> object:

```
 # return whatever is in $WIDGET{5}:
 JSON
    ->new
    ->filter_json_single_key_object (__widget__ => sub {
         $WIDGET{ $_[0] }
```

```
      })
   ->decode ('{"__widget__": 5')

 # this can be used with a TO_JSON method in some "widget" class
 # for serialisation to json:
 sub WidgetBase::TO_JSON {
   my ($self)
= @_;

   unless ($self->{id}) {
     $self->{id} = ..get..some..id..;
     $WIDGET{$self->{id}} = $self;
   }

   { __widget__ => $self->{id} }
 }
```

=head2 max_depth

```
  $json = $json->max_depth([$maximum_nesting_depth])

  $max_depth = $json->get_max_depth
```

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{> or C<[> characters without their matching closing parenthesis crossed to reach a given character in a string.

Setting the maximum depth to one disallows any nesting, so that ensures that the object is only a single hash/object or array.

If no argument is given, the highest possible setting will be used, which is rarely useful.

See L<JSON::XS/SECURITY
 CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

```
  $json = $json->max_size([$maximum_string_size])

  $max_size = $json->get_max_size
```

Set the maximum length a JSON text may have (in bytes) where decoding is
being attempted. The default is C<0>, meaning no limit. When C<decode>
is called on a string that is longer then this many bytes, it will not
attempt to decode the string but throw an exception. This setting has no
effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when
C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

  $json_text = $json->encode($perl_scalar)

Converts the given Perl value or data structure to its JSON
representation. Croaks on error.

=head2 decode

  $perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it,
returning the resulting simple scalar or reference.
 Croaks on error.

=head2 decode_prefix

  ($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception
when there is trailing garbage after the first JSON object, it will
silently stop parsing there and return the number of characters consumed
so far.

This is useful if your JSON texts are not delimited by an outer protocol
and you need to know where the JSON text ends.

 JSON->new->decode_prefix ("[1] the tail")
 => ([1], 3)

=head1 ADDITIONAL METHODS

The following methods are for this module only.

=head2 backend

  $backend = $json->backend

Since 2.92, C<backend> method returns an abstract backend module used currently,
which should be JSON::Backend::XS (which inherits JSON::XS or Cpanel::JSON::XS),
or JSON::Backend::PP (which inherits JSON::PP), not to monkey-patch the actual
backend module globally.

If you need to know what is used actually, use C<isa>, instead of string comparison.

=head2
 is_xs

  $boolean = $json->is_xs

Returns true if the backend inherits JSON::XS or Cpanel::JSON::XS.

=head2 is_pp

  $boolean = $json->is_pp

Returns true if the backend inherits JSON::PP.

=head2 property

  $settings = $json->property()

Returns a reference to a hash that holds all the common flag settings.

  $json = $json->property('utf8' => 1)
  $value = $json->property('utf8') # 1

You can use this to get/set a value of a particular flag.

=head2 boolean

  $boolean_object = JSON->boolean($scalar)

Returns $JSON::true if $scalar contains a true value, $JSON::false otherwise.
You can use this as a full-qualified function (C<JSON::boolean($scalar)>).

=head1 INCREMENTAL PARSING

This section is also taken from JSON::XS.

In some cases, there is the need for incremental parsing of JSON
texts. While this module always has to keep both JSON text and resulting
Perl data structure in memory at one time, it does allow you to parse a
JSON stream incrementally. It does so by

accumulating text until it has
a full JSON object, which it then can decode. This process is similar to
using C<decode_prefix> to see if a full JSON object is available, but
is much more efficient (and can be implemented with a minimum of method
calls).

This module will only attempt to parse the JSON text once it is sure it
has enough text to get a decisive result, using a very simple but
truly incremental parser. This means that it sometimes won't stop as
early as the full parser, for example, it doesn't detect mismatched
parentheses. The only thing it guarantees is that it starts decoding as
soon as a syntactically valid JSON text has been seen. This means you need
to set resource limits (e.g. C<max_size>) to ensure the parser will stop
parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

  $json->incr_parse([$string]) # void context

  $obj_or_undef = $json->incr_parse([$string]) # scalar context

  @obj_or_empty = $json->incr_parse([$string]) # list context

This is the central parsing function. It can both append new text and
extract objects from the stream accumulated so far (both of these
functions are optional).

If C<$string> is given, then this string is appended to the already
existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply
return without doing anything further. This can be used to add more text
in as many chunks as you want.

If the method is called in scalar context, then it will try to extract
exactly I<one> JSON object. If that is successful, it will return this
object, otherwise it will return C<undef>. If there is a parse error,
this method will croak just as C<decode> would do (one can then use
C<incr_skip> to skip the erroneous part). This is the most common way of
using the method.

And finally, in list context, it will try to extract as many objects
from the stream as it can find and
 return them, or the empty list
otherwise. For this to work, there must be no separators (other than
whitespace) between the JSON objects or arrays, instead they must be

concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```
  my @objs = JSON->new->incr_parse ("[5][7][1,2]");
```

=head2 incr_text

```
  $lvalue_string = $json->incr_text
```

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

That
 means you can only use this function to look at or manipulate text before or after complete JSON objects, not while the parser is in the middle of parsing a JSON object.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

=head2 incr_skip

```
  $json->incr_skip
```

This will reset the state of the incremental parser and will remove the parsed text from the input buffer so far. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

The difference to C<incr_reset> is that only text until the parse error occurred is removed.

=head2 incr_reset

```
  $json->incr_reset
```

This completely resets the incremental parser, that is, after this call,

it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON
objects and want to
ignore any trailing data, which means you have to reset the parser after
each successful decode.

=head1 MAPPING

Most of this section is also taken from JSON::XS.

This section describes how the backend modules map Perl values to JSON values and
vice versa. These mappings are designed to "do the right thing" in most
circumstances automatically, preserving round-tripping characteristics
(what you put in comes out as something equivalent).

For the more enlightened: note that in the following descriptions,
lowercase I<perl> refers to the Perl interpreter, while uppercase I<Perl>
refers to the abstract Perl language itself.

=head2 JSON -> PERL

=over 4

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object
keys is preserved (JSON does not preserver object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON
are
represented by the same codepoints in the Perl string, so no manual
decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or
string scalar in perl, depending on its range and any fractional parts. On
the Perl level, there is no difference between those as Perl handles all
the conversion details, but an integer may take slightly less memory and
might represent more values exactly than floating point numbers.

If the number consists of digits only, this module will try to represent
it as an integer value. If that fails, it will try to represent it as
a numeric (floating point) value if that is possible without loss of
precision. Otherwise it will preserve the number as a string value (in
which case you lose roundtripping ability, as the JSON number will be
re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be
represented as numeric (floating point) values, possibly at a loss of
precision
 (in which case you might lose perfect roundtripping ability, but
the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot
represent most decimal fractions exactly, and when converting from and to
floating point, this module only guarantees precision up to but not including
the least significant bit.

=item true, false

These JSON atoms become C<JSON::true> and C<JSON::false>,
respectively. They are overloaded to act almost exactly like the numbers
C<1> and C<0>. You can check whether a scalar is a JSON boolean by using
the C<JSON::is_bool> function.

=item null

A JSON null atom becomes C<undef> in Perl.

=item shell-style comments (C<< # I<text> >>)

As a nonstandard extension to the JSON syntax that is enabled by the
C<relaxed> setting, shell-style comments are allowed. They can start
anywhere outside strings and go till the end of the line.

=item tagged values (C<< (I<tag>)I<value> >>).

Another nonstandard
 extension to the JSON syntax, enabled with the
C<allow_tags> setting, are tagged values. In this implementation, the
I<tag> must be a perl package/class name encoded as a JSON string, and the
I<value> must be a JSON array encoding optional constructor arguments.

See L<OBJECT SERIALISATION>, below, for details.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a
truly typeless language, so we can only guess which JSON type is meant by
a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent
ordering in hash keys (or JSON objects), they will usually be encoded
in a pseudo-random order. This module can optionally sort the hash keys
(determined by the I<canonical> flag), so the same data structure will
serialise to the same JSON text (given same settings and version of
the same backend), but this incurs a runtime overhead and is only rarely useful,
e.g. when you want to compare some
 JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an
exception to be thrown, except for references to the integers C<0> and
C<1>, which get turned into C<false> and C<true> atoms in JSON. You can
also use C<JSON::false> and C<JSON::true> to improve readability.

  encode_json [\0,JSON::true]   # yields [false,true]

=item JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values,
respectively. You can also use C<\1> and C<\0> directly if you want.

=item blessed objects

Blessed objects are not directly representable in JSON, but C<JSON::XS>
allows various ways of handling objects. See L<OBJECT SERIALISATION>,
below, for details.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most
difficult objects to encode: this module will encode undefined scalars as
JSON

C<null> values, scalars that have last been used in a string context
before encoding as JSON strings, and anything else as number value:

```
 # dump as number
 encode_json [2]                    # yields [2]
 encode_json [-3.0e17]              # yields [-3e+17]
 my $value = 5; encode_json [$value]  # yields [5]

 # used as string, so dump as string
 print $value;
 encode_json [$value]               # yields ["5"]

 # undef becomes null
 encode_json [undef]                # yields [null]
```

You can force the type to be a string by stringifying it:

```
 my $x = 3.1; # some variable containing a number
 "$x";       # stringified
 $x .= "";    # another, more awkward way to stringify
 print $x;    # perl does it for you, too, quite often
```

You can force the type to be a number by numifying it:

```
 my $x = "3"; # some variable containing a string
 $x += 0;     # numify it, ensuring it will be dumped as a number
 $x *= 1;     # same thing, the choice is yours.
```

You
can not currently force the type in other, less obscure, ways. Tell me
if you need this capability (but don't forget to explain why it's needed
:).

Since version 2.91_01, JSON::PP uses a different number detection logic
that converts a scalar that is possible to turn into a number safely.
The new logic is slightly faster, and tends to help people who use older
perl or who want to encode complicated data structure. However, this may
results in a different JSON text from the one JSON::XS encodes (and
thus may break tests that compare entire JSON texts). If you do
need the previous behavior for better compatibility or for finer control,
set PERL_JSON_PP_USE_B environmental variable to true before you
C<use> JSON.

Note that numerical precision has the same meaning as under Perl (so
binary to decimal conversion follows the same rules as in Perl, which
can differ to other languages). Also, your perl interpreter might expose
extensions to the floating point numbers of your platform,

such as
infinities or NaN's - these cannot be represented in JSON, and it is an
error to pass those in.

JSON.pm backend modules trust what you pass to C<encode> method
(or C<encode_json> function) is a clean, validated data structure with
values that can be represented as valid JSON values only, because it's
not from an external data source (as opposed to JSON texts you pass to
C<decode> or C<decode_json>, which JSON backends consider tainted and
don't trust). As JSON backends don't know exactly what you and consumers
of your JSON texts want the unexpected values to be (you may want to
convert them into null, or to stringify them with or without
normalisation (string representation of infinities/NaN may vary
depending on platforms), or to croak without conversion), you're advised
to do what you and your consumers need before you encode, and also not
to numify values that may start with values that look like a number
(including infinities/NaN), without validating.

=back

=head2 OBJECT
SERIALISATION

As JSON cannot directly represent Perl objects, you have to choose between
a pure JSON representation (without the ability to deserialise the object
automatically again), and a nonstandard extension to the JSON syntax,
tagged values.

=head3 SERIALISATION

What happens when this module encounters a Perl object depends on the
C<allow_blessed>, C<convert_blessed> and C<allow_tags> settings, which
are used in this order:

=over 4

=item 1. C<allow_tags> is enabled and the object has a C<FREEZE> method.

In this case, C<JSON> creates a tagged JSON value, using a nonstandard
extension to the JSON syntax.

This works by invoking the C<FREEZE> method on the object, with the first
argument being the object to serialise, and the second argument being the
constant string C<JSON> to distinguish it from other serialisers.

The C<FREEZE> method can return any number of values (i.e. zero or
more). These values and the paclkage/classname of the object will then be
encoded as a tagged

JSON value in the following format:

("classname")[FREEZE return values...]

e.g.:

("URI")["http://www.google.com/"]
("MyDate")[2013,10,29]
("ImageData::JPEG")["Z3...VlCg=="]

For example, the hypothetical C<My::Object> C<FREEZE> method might use the objects C<type> and C<id> members to encode the object:

```
sub My::Object::FREEZE {
   my ($self, $serialiser) = @_;

   ($self->{type}, $self->{id})
}
```

=item 2. C<convert_blessed> is enabled and the object has a C<TO_JSON> method.

In this case, the C<TO_JSON> method of the object is invoked in scalar context. It must return a single scalar that can be directly encoded into JSON. This scalar replaces the object in the JSON text.

For example, the following C<TO_JSON> method will convert all L<URI> objects to JSON strings when serialised. The fact that these values originally were L<URI> objects is lost.

```
sub URI::TO_JSON {
   my ($uri) = @_;
   $uri->as_string
}
```

=item 3. C<allow_blessed> is enabled.

The
object will be serialised as a JSON null value.

=item 4. none of the above

If none of the settings are enabled or the respective methods are missing, this module throws an exception.

=back

=head3 DESERIALISATION

For deserialisation there are only two cases to consider: either
nonstandard tagging was used, in which case C<allow_tags> decides,
or objects cannot be automatically be deserialised, in which
case you can use postprocessing or the C<filter_json_object> or
C<filter_json_single_key_object> callbacks to get some real objects our of
your JSON.

This section only considers the tagged value case: a tagged JSON object
is encountered during decoding and C<allow_tags> is disabled, a parse
error will result (as if tagged values were not part of the grammar).

If C<allow_tags> is enabled, this module will look up the C<THAW> method
of the package/classname used during serialisation (it will not attempt
to load the package as a Perl module). If there is no such method, the
decoding
 will fail with an error.

Otherwise, the C<THAW> method is invoked with the classname as first
argument, the constant string C<JSON> as second argument, and all the
values from the JSON array (the values originally returned by the
C<FREEZE> method) as remaining arguments.

The method must then return the object. While technically you can return
any Perl scalar, you might have to enable the C<allow_nonref> setting to
make that work in all cases, so better return an actual blessed reference.

As an example, let's implement a C<THAW> function that regenerates the
C<My::Object> from the C<FREEZE> example earlier:

```
 sub My::Object::THAW {
    my ($class, $serialiser, $type, $id) = @_;

    $class->new (type => $type, id => $id)
 }
```

=head1 ENCODING/CODESET FLAG NOTES

This section is taken from JSON::XS.

The interested reader might have seen a number of flags that signify
encodings or codesets - C<utf8>, C<latin1> and C<ascii>. There seems to be
some confusion on what these do, so
 here is a short comparison:

C<utf8> controls whether the JSON text created by C<encode> (and expected
by C<decode>) is UTF-8 encoded or not, while C<latin1> and C<ascii> only
control whether C<encode> escapes character values outside their respective

codeset range. Neither of these flags conflict with each other, although some combinations make less sense than others.

Care has been taken to make all flags symmetrical with respect to C<encode> and C<decode>, that is, texts encoded with any combination of these flag values will be correctly decoded when the same flags are used - in general, if you use different flag settings while encoding vs. when decoding you likely have a bug somewhere.

Below comes a verbose discussion of these flags. Note that a "codeset" is simply an abstract set of character-codepoint pairs, while an encoding takes those codepoint numbers and I<encodes> them, in our case into octets. Unicode is (among other things) a codeset, UTF-8 is an encoding, and ISO-8859-1
(= latin 1) and ASCII are both codesets I<and> encodings at the same time, which can be confusing.

=over 4

=item C<utf8> flag disabled

When C<utf8> is disabled (the default), then C<encode>/C<decode> generate and expect Unicode strings, that is, characters with high ordinal Unicode values (> 255) will be encoded as such characters, and likewise such characters are decoded as-is, no changes to them will be done, except "(re-)interpreting" them as Unicode codepoints or Unicode characters, respectively (to Perl, these are the same thing in strings unless you do funny/weird/dumb stuff).

This is useful when you want to do the encoding yourself (e.g. when you want to have UTF-16 encoded JSON texts) or when some other layer does the encoding for you (for example, when printing to a terminal using a filehandle that transparently encodes to UTF-8 you certainly do NOT want to UTF-8 encode your data first and have Perl encode it another time).

=item C<utf8> flag enabled

If the C<utf8>-flag
is enabled, C<encode>/C<decode> will encode all characters using the corresponding UTF-8 multi-byte sequence, and will expect your input strings to be encoded as UTF-8, that is, no "character" of the input string must have any value > 255, as UTF-8 does not allow that.

The C<utf8> flag therefore switches between two modes: disabled means you will get a Unicode string in Perl, enabled means you get an UTF-8 encoded octet/binary string in Perl.

=item C<latin1> or C<ascii> flags enabled

With C<latin1> (or C<ascii>) enabled, C<encode> will escape characters with ordinal values > 255 (> 127 with C<ascii>) and encode the remaining characters as specified by the C<utf8> flag.

If C<utf8> is disabled, then the result is also correctly encoded in those character sets (as both are proper subsets of Unicode, meaning that a Unicode string with all character values < 256 is the same thing as a ISO-8859-1 string, and a Unicode string with all character values < 128 is the same thing as an ASCII
 string in Perl).

If C<utf8> is enabled, you still get a correct UTF-8-encoded string, regardless of these flags, just some more characters will be escaped using C<\uXXXX> then before.

Note that ISO-8859-1-I<encoded> strings are not compatible with UTF-8 encoding, while ASCII-encoded strings are. That is because the ISO-8859-1 encoding is NOT a subset of UTF-8 (despite the ISO-8859-1 I<codeset> being a subset of Unicode), while ASCII is.

Surprisingly, C<decode> will ignore these flags and so treat all input values as governed by the C<utf8> flag. If it is disabled, this allows you to decode ISO-8859-1- and ASCII-encoded strings, as both strict subsets of Unicode. If it is enabled, you can correctly decode UTF-8 encoded strings.

So neither C<latin1> nor C<ascii> are incompatible with the C<utf8> flag - they only govern when the JSON output engine escapes a character or not.

The main use for C<latin1> is to relatively efficiently store binary data as JSON, at the expense of breaking
 compatibility with most JSON decoders.

The main use for C<ascii> is to force the output to not contain characters with values > 127, which means you can interpret the resulting string as UTF-8, ISO-8859-1, ASCII, KOI8-R or most about any character set and 8-bit-encoding, and still get the same data structure back. This is useful when your channel for JSON transfer is not 8-bit clean or the encoding might be mangled in between (e.g. in mail), and works because ASCII is a proper subset of most 8-bit and multibyte encodings in use in the world.

=back

=head1 BACKWARD INCOMPATIBILITY

Since version 2.90, stringification (and string comparison) for C<JSON::true> and C<JSON::false> has not been overloaded. It shouldn't

matter as long as you treat them as boolean values, but a code that
expects they are stringified as "true" or "false" doesn't work as
you have expected any more.

```
  if (JSON::true eq 'true') {  # now fails

  print "The result is $JSON::true now."; # => The result is 1
now.
```

And now these boolean values don't inherit JSON::Boolean, either.
When you need to test a value is a JSON boolean value or not, use
C<JSON::is_bool> function, instead of testing the value inherits
a particular boolean class or not.

=head1 BUGS

Please report bugs on backend selection and additional features
this module provides to RT or GitHub issues for this module:

L<https://rt.cpan.org/Public/Dist/Display.html?Queue=JSON>

L<https://github.com/makamaka/JSON/issues>

As for bugs on a specific behavior, please report to the author
of the backend module you are using.

As for new features and requests to change common behaviors, please
ask the author of JSON::XS (Marc Lehmann, E<lt>schmorp[at]schmorp.deE<gt>)
first, by email (important!), to keep compatibility among JSON.pm
backends.

=head1 SEE ALSO

L<JSON::XS>, L<Cpanel::JSON::XS>, L<JSON::PP> for backends.

L<JSON::MaybeXS>, an alternative that prefers Cpanel::JSON::XS.

C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>)

RFC7159
 (L<http://www.ietf.org/rfc/rfc7159.txt>)

RFC8259 (L<http://www.ietf.org/rfc/rfc8259.txt>)

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=head1 COPYRIGHT AND LICENSE

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Most of the documentation is taken from JSON::XS by Marc Lehmann

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=cut

Found in path(s):
* /json-4-03-tar-gz/JSON-4.03/lib/JSON.pm

1.658 pythonurllib 1.26.5

1.658.1 Notifications :

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.658.2 Available under license :

Contributions to the urllib3 project

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In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
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* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

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 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

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

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict

* Fixed pickle support of some exceptions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 * Bugfixes, docs, test coverage

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

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

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

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

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

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

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

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

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

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

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

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

* John Krauss <https://github.com/talos>

* Clues to debugging problems with `cryptography` dependency in docs

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

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

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

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

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

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

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
 * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
 * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
 * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
 * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
 * Test improvements

* Chris Olufson <tycarac@gmail.com>
 * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
 * Support for logging session keys
 via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
 * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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for producing a compiler intermediate representation.

The "Compilation Process" transforms code
entirely represented in
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DRuntime: Runtime Library for the D Programming Language
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with which the Combined Work was made is also called the "Linked
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Developed by:

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1.661 libnewt 0.52.21

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.662 linux-libc-headers 5.10

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
```

```
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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1.665 python3-incremental 21.3.0

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src/third_party/win32/getopt.*
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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src/third_party/win32/winerror_to_errno.h
~~~~~~

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src/third_party/xxh*
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1.667 edk2 edk2-stable202102

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Key Dates

---

* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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https://bugzilla.tianocore.org/show_bug.cgi?id=629

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==========
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```
  ======================

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  2. Your commit message must include your "Signed-off-by" signature,
     and "Contributed-under" message.
  3. Your "Contributed-under" message explicitly states that the
     contribution is made under the terms of the specified
     contribution agreement.  Your "Contributed-under" message
     must include the name of contribution agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.1
     The "TianoCore Contribution Agreement" is included below in
     this document.
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  ======================================================
  = Change Description / Commit Message / Patch Email =
  ======================================================

  Your change description should use the standard format for a
  commit message, and must include
your "Signed-off-by" signature
  and the "Contributed-under" message.
```

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the
contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.

* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

==========
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```
  ======================
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  ======================

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  1. Create a change description in the format specified below to
     use in the source control commit log.
  2. Your commit message must include your "Signed-off-by" signature,
     and "Contributed-under"
 message.
  3. Your "Contributed-under" message explicitly states that the
     contribution is made under the terms of the specified
     contribution agreement.  Your "Contributed-under" message
     must include the name of contribution agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.0
     The "TianoCore Contribution Agreement" is included below in
     this document.
  4. Submit your code to the TianoCore project using the process
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     * Python-2.0: http://opensource.org/licenses/Python-2.0
     * Zlib: http://opensource.org/licenses/Zlib

     Contributions of code put into the public domain can also be
     accepted.

     Contributions using other licenses might be accepted, but further
     review will be required.

  ======================================================
  = Change Description / Commit Message / Patch Email =
  ======================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.
Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
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1.668 traceroute 2.1.3

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Otherwise, if the work is a derivative of the Library, you may distribute the
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a) Accompany
the work with the complete corresponding
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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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1.669 sharutils 4.15.2

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1.686 update-rc-d 0.8

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1.688 grpc-go 1.47.0

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1.689 vim 9.1.0114

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uganda.txt   For Vim version 9.1. Last change: 2022 Mar 02

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==

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
usually is enough food. But this district is suffering from AIDS more than
any other part of the world. Some say that it started there. Estimations are
that in the past 10 to 30% of the Ugandans
 are infected with HIV. Because
parents die, there are many orphans. In this district about 60,000 children
have lost one or both parents, out of a population of 350,000. Although AIDS
is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any
religion.

The key to solving the problems in this area is education. This has been
neglected in the past years with president Idi Amin and the following civil
wars. Now that the government is stable again, the children and parents have
to learn how to take care of themselves and how to avoid infections. There is
also help for people who are ill and hungry, but the primary goal is to
prevent people from getting ill and to teach them
 how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older
sister is taking care of them. Because these families are big and the income
(if any) is low, a child is lucky if it gets healthy food. Clothes, medical
care and schooling is beyond its reach. To help these needy children, a
sponsorship program was put into place. A child can be financially adopted.
For a few dollars a month KCC sees to it that the child gets indispensable
items, is healthy, goes to school and KCC takes care of anything else that
needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up
needs to be improved. KCC helps schools to improve their teaching methods.
There is a demonstration school at the centre and teacher trainings are given.

Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production
site for cement slabs. These are used to build a good latrine.
They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a
month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on
the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
 If you must send a check send it to our Canadian partner:
 https://www.kuwasha.net/

Canada: Contact Kuwasha in Surrey, Canada. They take care of the
 Canadian sponsors for the children in Kibaale. Kuwasha
 forwards 100% of the money to the project in Uganda. You can
 send them a one time donation directly.
 Please send me a note so that I know what has been donated
 because of Vim. Look on their site for information about
 sponsorship: https://www.kuwasha.net/
 If you make a donation to Kuwasha you will receive a tax
 receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting
 ICCF Holland" in
 Amersfoort. This will allow for tax deduction if you live in
 Holland. ING bank, IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
 Check the ICCF web site for the latest information:
  https://iccf-holland.org/germany.html

Europe: Use a bank transfer if possible. See "Others" below for the
 swift code and IBAN number.
 Any other method should work. Ask for information about
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 the most widely used Internet based payment system. It's
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Others: Transfer to this account if possible:
    ING bank: IBAN: NL95 INGB 0004 5487 74
   Swift code: INGBNL2A
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 Checks are
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vim:tw=78:ts=8:noet:ft=help:norl:

1.690 xorriso 1.5.5

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1.698 packaging 19.0

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1.701 colorama 0.4.4

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1.702 spdystream 0.2.0

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1.703 go-grpc-middleware 1.3.0

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* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
 Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
```

```
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
        'room', Integer().subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
     ),
     DefaultedNamedType(
        'house',
 Integer(0).subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
```

```
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify,
 encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
```

room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
---

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If
 something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/README.md
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
```

Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:
 Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
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* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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ASN.1 library for Python
========================

.. toctree::

:maxdepth: 1

Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and become a stand-alone tech still being actively supported by its designers
and
widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
`discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types
 (integers, bits, strings, arrays and records) that can be used for describing
  arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a
 series of octets for storage or transmission over the wire as well as
 recovered back into their structured form. The system is fully agnostic
 to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms
 of a schema language for ASN.1 compiler to turn it into platform-specific
 implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely
adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF,
 ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

/example-use-case

Download & Install

.. toctree::
:maxdepth: 2

/download

Changes

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

..
toctree::
:maxdepth: 1

/changelog

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.. toctree::
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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome

books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards
 <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper
book on the subject.

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* /pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

1.705 packaging 21.0

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1.707 ndg-httpsclient 0.5.1

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1.708 procfs 0.7.3

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1.709 protobuf-go 1.28.0

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1.710 console 1.0.3

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1.711 mock 1.6.0

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1.713 cffi 1.14.5

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1.714 httpsnoop 1.0.2

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1.715 sys-signal 0.7.0

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1.716 sys-sequential 0.5.0

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1.717 click 7.1.2

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.. _contrib:

==========
click-contrib
==========

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click

in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please
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binary only, patch it back to the system, and then use a wrapper

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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
  readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
  version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)

setup(
  name="click",
  version=version,
  url="https://palletsprojects.com/p/click/",
  project_urls={
     "Documentation": "https://click.palletsprojects.com/",
     "Code": "https://github.com/pallets/click",
     "Issue tracker": "https://github.com/pallets/click/issues",
```

```
  },
  license="BSD-3-Clause",
  maintainer="Pallets",
  maintainer_email="contact@palletsprojects.com",
  description="Composable command line interface toolkit",
  long_description=readme,
  packages=find_packages("src"),
  package_dir={"": "src"},
  include_package_data=True,
  python_requires=">=2.7, !=3.0.*,
!=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
  classifiers=[
      "Development Status :: 5 - Production/Stable",
      "Intended Audience :: Developers",
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  ],
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1.719 filepath-securejoin 0.2.2

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1.720 theupdateframework-notary 0.7.0

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Lewis Marshall <lewis@flynn.io> (github: lmars)
Jonathan Rudenberg <jonathan@flynn.io> (github: titanous)
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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1.724 iniparse 0.4

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
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Thanks to the many outside volunteers who have worked under Guido's
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1.725 continuity 0.3.0

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1.726 ttrpc 1.1.0

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1.729 distlib 0.3.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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* markupsafe._speedups
* ~~~~~~~~~~~~~~~~~~~~
*
* C implementation of escaping for better performance. Used instead of
* the native Python implementation when compiled.
*
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*/

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* Focusing on what is best for the community
* Showing empathy towards other community members

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* The use of sexualized
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* Publishing others' private information, such as a physical or electronic address, without explicit permission
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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
  readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
  version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)

setup(
  name="Jinja2",
  version=version,
  url="https://palletsprojects.com/p/jinja/",
  project_urls={
      "Documentation": "https://jinja.palletsprojects.com/",
      "Code": "https://github.com/pallets/jinja",
      "Issue tracker": "https://github.com/pallets/jinja/issues",
```

```
  },
  license="BSD-3-Clause",
  author="Armin Ronacher",
  author_email="armin.ronacher@active-4.com",
  maintainer="Pallets",
  maintainer_email="contact@palletsprojects.com",
  description="A very fast and expressive template engine.",
  long_description=readme,
  classifiers=[
      "Development Status
:: 5 - Production/Stable",
      "Environment :: Web Environment",
      "Intended Audience :: Developers",
      "License :: OSI Approved :: BSD License",
      "Operating System :: OS Independent",
      "Programming Language :: Python",
      "Programming Language :: Python :: 2",
      "Programming Language :: Python :: 2.7",
      "Programming Language :: Python :: 3",
      "Programming Language :: Python :: 3.5",
      "Programming Language :: Python :: 3.6",
      "Programming Language :: Python :: 3.7",
      "Programming Language :: Python :: 3.8",
      "Programming Language :: Python :: Implementation :: CPython",
      "Programming Language :: Python :: Implementation :: PyPy",
      "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
      "Topic :: Software Development :: Libraries :: Python Modules",
      "Topic :: Text Processing :: Markup :: HTML",
  ],
  packages=find_packages("src"),
  package_dir={"": "src"},
  include_package_data=True,
   python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
  install_requires=["MarkupSafe>=0.23"],
  extras_require={"i18n": ["Babel>=0.8"]},
  entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

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* /pallets-jinja-2-11-3-0-gcf21539-1-tar-gz/pallets-jinja-cf21539/setup.py
```

1.733 runtime-spec 1.0.3-0.20200929063507-e6143ca7d51d

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1.738 image-spec 1.1.0-rc2

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1.751 django 2.2.27

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May
2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for

the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however,
Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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==========
Advice for new contributors
==========

New contributor and not sure what to do? Want to help but just don't know how
to get started? This is the section for you.

.. admonition:: Basic tools and workflow

  If you are new to contributing to Django, the :doc:`/intro/contributing`
  tutorial will give you an introduction to the tools and the workflow.

First steps
==========

Start with these easy tasks to discover Django's development process.

* **Triage tickets**

 If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you
 can reproduce it and it seems valid, make a note that you confirmed the bug
 and accept the ticket. Make sure the ticket is filed under the correct

component area. Consider writing a patch that adds a test for the bug's
behavior, even if you don't fix the bug itself. See more at
:ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity

with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the
changes a patch makes, and keep an eye out for syntax that is incompatible
with older but still supported versions of Python. :doc:`Run the tests
</internals/contributing/writing-code/unit-tests>` and make sure they pass.
Where possible and relevant, try them out on a database other than SQLite.
Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the
time it gets reviewed. Make sure it still applies cleanly and functions as
expected. Simply updating a patch is both useful and important! See more on
:doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find
a typo? Do you think that something should be clarified? Go ahead and
suggest a documentation patch! See also the guide on
:doc:`writing-documentation`.

.. note::

    The `reports page`_ contains links to many useful Trac queries, including
    several that are useful for triaging tickets and reviewing patches as
    suggested above.

    .. _reports page: https://code.djangoproject.com/wiki/Reports

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.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject
 area that you care about, that you are familiar with, or
 that you want to learn about**

 You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

 Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

 It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has support first**

 This means getting
 someone else to confirm that a bug is real before you fix
 the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

 Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

 If you're really not certain if a ticket is ready, don't mark it as

such. Leave a comment instead, letting others know your thoughts. If you're
mostly certain, but not completely certain, you might also try asking on IRC
to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from
start to finish, and
repeat. The shotgun approach of taking on lots of tickets and letting some
fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch
doesn't have docs and tests, there had better be a good reason. Arguments
like "I couldn't find any existing tests of this feature" don't carry much
weight--while it may be true, that means you have the extra-important job of
writing the very first tests for that feature, not that you get a pass from
writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can
I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers
(except the Django fellow), and sometimes folks just don't have time. The
best thing to do is to
send a gentle reminder to the |django-developers|
mailing list asking for review on the ticket, or to bring it up in the
`#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC
myself?**

Short answer: No. It's always better to get another set of eyes on a
ticket. If you're having trouble getting that second set of eyes, see
question 1, above.

1.752 cython 0.29.22

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1.754 gitdb 4.0.5

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1.755 sqlparse 0.4.1

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1.756 zope-interface 5.3.0

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1.757 plexus-utils 2.0.6

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1.758 gogo-protobuf 1.3.2

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1.759 go-units 0.5.0

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1.768 less 563

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1.779 kubernetes-utils 0.0.0-20220210201930-3a6ce19ff2f9

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1.780 codegangsta-cli 1.22.1

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1.782 otel-exporters-otlp-otlptrace-otlptracegrpc 1.4.1

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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 in t_html_generator.h

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1.783 contrib-instrumentation-net-http-otelhttp 0.29.0

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1.787 slang 2.3.2

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1.791 kerberos 1.17

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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
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lib/krb5/kdb/kdb_log.c
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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
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lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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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_sign.c
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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

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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```
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For the lib/nodejs/lib/thrift/json_parse.js:

```
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

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```
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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(By Douglas Crockford <douglas@crockford.com>)

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```
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```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.798 sudo 1.9.5p2

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The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo: Stillman, Mark

1.799 protobuf 1.5.2

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// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
==========

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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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* * *

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>"',
   'license is similar to the valid expression "Apache-2.0"'
  ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
 }
);
```

```
assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
```

```
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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