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Contents

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   1.1.1 Available under license
1.2 x-oauth2 0.0.0-2019122225959-858c2ad4c8b6
   1.2.1 Available under license
1.3 seccomp 0.9.2-20210429002308-3879420cc921
   1.3.1 Available under license
1.4 psmisc 23.1-1ubuntu0.1
   1.4.1 Available under license
1.5 cachecontrol 0.11.7
   1.5.1 Available under license
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   1.6.1 Available under license
1.7 errors 0.9.1
   1.7.1 Available under license
1.8 kubernetes-model 4.13.2
   1.8.1 Available under license
1.9 libpng 1.6.37
   1.9.1 Available under license
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   1.10.1 Available under license
1.11 msgpack 0.0~git20150518.0.fa3f638-6
   1.11.1 Available under license
1.12 service-identity 16.0.0-3.ph2
   1.12.1 Available under license
1.13 gopkg.in-tomb 1.0.0-20141024135613-dd632973f1e7
   1.13.1 Available under license
1.14 x-text 0.3.3
  1.14.1 Available under license
1.15 netty-resolver-dns-classes-macos 4.1.75.Final
  1.15.1 Available under license
1.16 libpthread-stubs 0.3-4
  1.16.1 Available under license
1.17 six 1.11.0
  1.17.1 Available under license
1.18 libnlnf 3.2.29-0ubuntu3
  1.18.1 Available under license
1.19 python-certifi 2018.1.18
  1.19.1 Available under license
1.20 pep517 0.12.0
  1.20.1 Available under license
1.21 libparse-yapp-perl 1.21-1
  1.21.1 Available under license
1.22 go-pkcs11uri 0.0.0-20201008174630-78d3cae3a980
  1.22.1 Available under license
1.23 cairo 1.15.10 2ubuntu0.1
  1.23.1 Available under license
1.24 makenowjust-heredoc 0.0.0-20170808103936-bb23615498cd
  1.24.1 Available under license
1.25 dpkg 1.19.0.5ubuntu2.4
  1.25.1 Available under license
1.26 x11proto-xinerama-dev 2018.4-4
  1.26.1 Available under license
1.27 openssl 1.1.1 1ubuntu2.1-18.04.14
  1.27.1 Available under license
1.28 expat 2.2.5 3ubuntu0.2
  1.28.1 Available under license
1.29 qemu-block-extra 2.11+dfsg-1ubuntu7.40
  1.29.1 Available under license
1.30 cron 3.0pl1 128.1ubuntu1.2
  1.30.1 Available under license
1.31 hashicorp-go-plugin 1.4.3
  1.31.1 Available under license
1.32 caio-go-tdigest 3.1.0+incompatible
  1.32.1 Available under license
1.33 mapstructure 1.4.3
1.33 Open Source Used In 5GaaS Edge 9.70

1.34 resilience4j-ratelimiter 1.7.1
1.34.1 Available under license

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1.35.1 Available under license

1.36 golang-protoBuf-extensions 1.0.1
1.36.1 Available under license

1.37 benjohnson-clock 1.3.0
1.37.1 Available under license

1.38 types-python-dateutil 2.8.19
1.38.1 Available under license

1.39 ipxe 1.0.0+git-20180124.fbe8c52d-0ubuntu2.2
1.39.1 Available under license

1.40 liblocale-gettext-perl 1.07 3build2
1.40.1 Available under license

1.41 kubernetes-component-base 0.19.3
1.41.1 Available under license

1.42 python 3.6.9 1~18.04ubuntu1.6
1.42.1 Available under license

1.43 python 3.6.9 1~18.04ubuntu1.7
1.43.1 Available under license

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1.44.1 Available under license

1.45 libxtst 1.2.3-1
1.45.1 Available under license

1.46 libjpeg 8c-2ubuntu8
1.46.1 Available under license

1.47 golang-protoBuf-extensions 1.0.2-0.20181231171920-c182affec369
1.47.1 Available under license

1.48 apache-http-server 2.4.29-1ubuntu4.21
1.48.1 Available under license

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1.49.1 Available under license

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1.50.1 Available under license

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1.51.1 Available under license

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1.52.1 Available under license
1.53 sys-mountinfo 0.5.0
  1.53.1 Available under license
1.54 libnl3 3.2.29 0ubuntu3
  1.54.1 Available under license
1.55 libpython 3.6.9-1~18.04ubuntu1.8
  1.55.1 Available under license
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  1.56.1 Available under license
1.57 qt5-assistant 5.9.5-0ubuntu1
  1.57.1 Available under license
1.58 ruby-net-telnet 0.1.1-2
  1.58.1 Available under license
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  1.59.1 Available under license
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  1.60.1 Available under license
1.61 libjson-c4 0.13.1+dfsg-7ubuntu0.3
  1.61.1 Available under license
1.62 websocket-client 0.59.0
  1.62.1 Available under license
1.63 build-essential 12.4ubuntu1
  1.63.1 Available under license
1.64 netlink 1.1.0
  1.64.1 Available under license
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  1.65.1 Available under license
1.66 qemu-kvm 2.11+dfsg-1ubuntu7.40
  1.66.1 Available under license
1.67 libqt5concurrent5 5.9.5+dfsg-0ubuntu2.6
  1.67.1 Available under license
1.68 libdevmapper 1.02.145-4.1ubuntu3.18.04.3
  1.68.1 Available under license
1.69 cron 3.0pl1 136ubuntu1
  1.69.1 Available under license
1.70 snappy 1.1.7-1
  1.70.1 Available under license
1.71 docker-go-events 0.0.0-20190806004212-e31b211e4f1c
  1.71.1 Available under license
1.72 pkg_resources 0.0.0
1.72.1 Available under license
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   1.73.1 Available under license
1.74 open-ldap 2.4.49+dfsg-2ubuntu1.9
   1.74.1 Available under license
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   1.75.1 Available under license
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   1.76.1 Available under license
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   1.77.1 Available under license
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   1.78.1 Available under license
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   1.79.1 Available under license
1.80 kubernetes-klog 2.30.0
   1.80.1 Available under license
1.81 libpulse-dev 11.1-1ubuntu7.11
   1.81.1 Available under license
1.82 zip 3.0-11build1
   1.82.1 Available under license
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   1.83.1 Available under license
1.84 urfave-cli 1.22.2
   1.84.1 Available under license
1.85 gstreamer 1.14.5-0ubuntu1~18.04.2
   1.85.1 Available under license
1.86 fonts-lato 2.0-2
   1.86.1 Available under license
1.87 moby-spdystream 0.2.0
   1.87.1 Available under license
1.88 nghttp2 1.30.0-1ubuntu1
   1.88.1 Available under license
1.89 x-sys 0.0.0-20210616094352-59db8d763f22
   1.89.1 Available under license
1.90 x-sys 0.0.0-20220412211240-33da011f77ad
   1.90.1 Available under license
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   1.91.1 Available under license
1.92 pulseaudio 11.1-1ubuntu7.11
   1.92.1 Available under license
1.93 hashicorp-uuid 1.0.2
   1.93.1 Available under license
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   1.94.1 Available under license
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   1.95.1 Available under license
1.96 man-db 2.8.3 2ubuntu0.1
   1.96.1 Available under license
1.97 libsemanege 2.7 2build2
   1.97.1 Available under license
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   1.98.1 Available under license
1.99 google-cloud-go 0.51.0
   1.99.1 Available under license
1.100 blang-semver 3.5.1+incompatible
   1.100.1 Available under license
1.101 scowl 2017.08.24-1
   1.101.1 Available under license
1.102 miekg-pkcs11 1.1.1
   1.102.1 Available under license
1.103 mime-support 3.60ubuntu1
   1.103.1 Available under license
1.104 resilience4j-micrometer 1.7.1
   1.104.1 Available under license
1.105 popularity-contest 1.66ubuntu1
   1.105.1 Available under license
1.106 micrometer-registry-prometheus 1.8.4
   1.106.1 Available under license
1.107 zstd 1.3.3+dfsg 2ubuntu1.2
   1.107.1 Available under license
1.108 sed 4.4 2
   1.108.1 Available under license
1.109 google-uuid 1.3.0
   1.109.1 Available under license
1.110 qtmultimedia-opensource-src 5.9.5-0ubuntu1
   1.110.1 Available under license
1.111 librokenheimdal 7.7.0+dfsg-1ubuntu1
1.111.1 Available under license
1.112 pciutils 3.5.2 1ubuntu1.1
   1.112.1 Available under license
1.113 go 1.17.8
   1.113.1 Available under license
1.114 term 0.0.0-20200312100748-672ec06f55cd
   1.114.1 Available under license
1.115 go-playground-validator 10.10.1
   1.115.1 Available under license
1.116 libdumbnet 1.12-7build1
   1.116.1 Available under license
1.117 go-immutable-radix 1.3.1
   1.117.1 Available under license
1.118 lz4 1.7.0
   1.118.1 Available under license
1.119 gounits 0.4.0
   1.119.1 Available under license
1.120 activation-api 1.2.2
   1.120.1 Available under license
1.121 go 1.10.4
   1.121.1 Available under license
1.122 zlib 1.2.11.dfgs-0ubuntu2.1
   1.122.1 Available under license
1.123 webkit 5.212.0~alpha2-7ubuntu1
   1.123.1 Available under license
1.124 cpp 7.5.0-3ubuntu1~18.04
   1.124.1 Available under license
1.125 golang-protobuf-extensions 1.0.2-0.20181231171920-c182affec369
   1.125.1 Available under license
1.126 iputils 20161105 1ubuntu3
   1.126.1 Available under license
1.127 apt 1.6.14
   1.127.1 Available under license
1.128 openssl 1.1.1n
   1.128.1 Available under license
1.129 pyasn1 0.4.2-3
   1.129.1 Available under license
1.130 libnl-3-dev 3.2.29-0ubuntu3
   1.130.1 Available under license
1.131 glibc 2.27-3ubuntu1.4
   1.131.1 Available under license
1.132 gawk 4.1.4+dfsg-1build1
   1.132.1 Available under license
1.133 netty-handler-proxy 4.1.75.Final
   1.133.1 Available under license
1.134 scp-py 0.14.4
   1.134.1 Available under license
1.135 python-setuptools 39.0.1-2
   1.135.1 Available under license
1.136 client-golang 1.12.1
   1.136.1 Available under license
1.137 zlib 1.2.11-1ubuntu1.3
   1.137.1 Available under license
1.138 libhcryptoheimdal 7.7.0+dfsg-1ubuntu1
   1.138.1 Available under license
1.139 libgststreamer1.0-0 1.14.5-0ubuntu1~18.04.2
   1.139.1 Available under license
1.140 purell 1.1.1
   1.140.1 Available under license
1.141 retrying 1.3.3
   1.141.1 Available under license
1.142 jq 1.2.2
   1.142.1 Available under license
1.143 moby-sys-symlink 0.2.0
   1.143.1 Available under license
1.144 idna 3.3
   1.144.1 Available under license
1.145 libyaml 0.1.7
   1.145.1 Available under license
1.146 libgcrypt20-dev 1.8.1-4ubuntu1.3
   1.146.1 Available under license
1.147 backports.zoneinfo 0.2.1
   1.147.1 Available under license
1.148 libtool 2.4.6-2
   1.148.1 Available under license
1.149 gregjones-htpcache 0.0.0-20180305231024-9cad4c3443a7
   1.149.1 Available under license
1.150 curl 7.75.0
1.150.1 Available under license
1.151 envtpl 0.6.0
   1.151.1 Available under license
1.152 csv 1.0.0
   1.152.1 Available under license
1.153 testify 1.7.0
   1.153.1 Available under license
1.154 sprig 3.1.0
   1.154.1 Available under license
1.155 logfmt 0.5.0
   1.155.1 Available under license
1.156 utils 0.0.0-20211116205334-6203023598ed
   1.156.1 Available under license
1.157 systemd-shim 10.3
   1.157.1 Available under license
1.158 zjsonpatch 0.3.0
1.159 python 3.6.9
   1.159.1 Available under license
1.160 systemd 245.4-4ubuntu3.16
   1.160.1 Available under license
1.161 landscape-client 18.01-0ubuntu3.6
   1.161.1 Available under license
1.162 astroid 1.6.0-1
   1.162.1 Available under license
1.163 libbig 2.1-3.1build1
   1.163.1 Available under license
1.164 jboss-logging 3.4.3.Final
   1.164.1 Available under license
1.165 boost 1.65.1.0ubuntu1
   1.165.1 Available under license
1.166 ruby-power-assert 0.3.0 1
   1.166.1 Available under license
1.167 libopengl0 1.0.0-2ubuntu2.3
   1.167.1 Available under license
1.168 libglvnd 1.0.0-2ubuntu2.3
   1.168.1 Available under license
1.169 libblockfile 1.14-1.1
   1.169.1 Available under license
1.170 rtmpdump 2.4+20151223.gitfa8646d.1-2build1
Open Source Used In 5GaaS Edge 9.70

1.170.1 Available under license

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  1.171.1 Available under license

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  1.172.1 Available under license

1.173 libiculx 60.2-3ubuntu3.2
  1.173.1 Available under license

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  1.174.1 Available under license

1.175 python-cffi 1.11.5-1
  1.175.1 Available under license

1.176 libgcrypt 1.8.5 5ubuntu1.1
  1.176.1 Available under license

1.177 libevent 2.1.8-stable-4build1
  1.177.1 Available under license

1.178 grub2 2.04-1ubuntu44.1.2
  1.178.1 Available under license

1.179 procfs 0.7.3
  1.179.1 Available under license

1.180 libmnl 1.0.4 2
  1.180.1 Available under license

1.181 go-grpc-prometheus 1.2.0
  1.181.1 Available under license

1.182 git 2.17.1-1ubuntu0.12
  1.182.1 Available under license

1.183 nss 3.35-2ubuntu2.13
  1.183.1 Available under license

1.184 pyyaml 3.12-1build2
  1.184.1 Available under license

1.185 go-playground-universal-translator 0.18.0
  1.185.1 Available under license

1.186 coverage 6.2
  1.186.1 Available under license

1.187 dns-root-data 2018013001
  1.187.1 Available under license

1.188 heimdal 7.5.0+dfsg-1
  1.188.1 Available under license

1.189 inf 0.9.1
  1.189.1 Available under license
1.190 ace-radius 20220323
  1.190.1 Available under license

1.191 openjsse 1.1.10
  1.191.1 Available under license

1.192 containerd-go-runc 1.0.0
  1.192.1 Available under license

1.193 libjpeg8-dev 8c-2ubuntu8
  1.193.1 Available under license

1.194 gonum 0.11.0
  1.194.1 Available under license

1.195 mesa 20.0.8-0ubuntu1~18.04.1
  1.195.1 Available under license

1.196 python-mccabe 0.6.1-2
  1.196.1 Available under license

1.197 urllib3 1.26.9
  1.197.1 Available under license

1.198 argparse 1.2.1
  1.198.1 Available under license

1.199 opus 1.1.2 1ubuntu1
  1.199.1 Available under license

1.200 vl53l0x-c-api 5.4.0-100-generic
  1.200.1 Available under license

1.201 libxrender 0.9.10-1
  1.201.1 Available under license

1.202 cglib 3.3.0
  1.202.1 Available under license

1.203 zope-interface 4.3.2 1build2
  1.203.1 Available under license

1.204 aws-sdk-go-v2 1.1.0
  1.204.1 Available under license

1.205 sqlite 3.22.0-1ubuntu0.5
  1.205.1 Available under license

1.206 markupsafe 2.0.1
  1.206.1 Available under license

1.207 libpcap-dev 1.8.1-6ubuntu1.18.04.2
  1.207.1 Available under license

1.208 antchfx-xpath 1.2.0
  1.208.1 Available under license

1.209 apparmor 2.12 4ubuntu5.1
1.209.1 Available under license
1.210 qttools5-dev 5.9.5-0ubuntu1
   1.210.1 Available under license
1.211 man-pages 4.15-1
   1.211.1 Available under license
1.212 protobuf 1.26.0
   1.212.1 Available under license
1.213 progress 1.2
   1.213.1 Available under license
1.214 ninja 1.8.2-1
   1.214.1 Available under license
1.215 libpolkit-backend 0.105-2ubuntu0.18.04.6
   1.215.1 Available under license
1.216 libspandsp-dev 0.0.6+dfsg-0.1
   1.216.1 Available under license
1.217 hicolor-icon-theme 0.17-2
   1.217.1 Available under license
1.218 tar 1.29b 2ubuntu0.2
   1.218.1 Available under license
1.219 libgcrypt 1.8.1 4ubuntu1.3
   1.219.1 Available under license
1.220 goprotobuf 1.5.2
   1.220.1 Available under license
1.221 x11proto-xf86vidmode-dev 2018.4-4
   1.221.1 Available under license
1.222 xmltodict 0.13.0
   1.222.1 Available under license
1.223 ipaddr 1.2.0
   1.223.1 Available under license
1.224 goprotobuf 1.4.2
   1.224.1 Available under license
1.225 asciidoctor 1.5.5
   1.225.1 Available under license
1.226 go-jmespath 0.4.0
   1.226.1 Available under license
1.227 libsbc1 1.3-2
   1.227.1 Available under license
1.228 seabios 1.10.2 1ubuntu1
   1.228.1 Available under license
1.248.1 Available under license
1.249 libdatrie 0.2.10-7
1.249.1 Available under license
1.250 python-setuptools 39.0.1
1.250.1 Available under license
1.251 libdrmintel 2.4.101-2~18.04.1
1.251.1 Available under license
1.252 slf4j 1.7.36
1.252.1 Available under license
1.253 resilience4j-spring-boot2 1.7.1
1.253.1 Available under license
1.254 xdg-user-dirs 0.17 1ubuntu1
1.254.1 Available under license
1.255 make 4.1 9.1ubuntu1
1.255.1 Available under license
1.256 rdma-cm 17.1-1ubuntu0.2
1.256.1 Available under license
1.257 node-jquery 3.2.1-1
1.257.1 Available under license
1.258 initramfs-tools 0.130ubuntu3.13
1.258.1 Available under license
1.259 autoconf 2.69 11
1.259.1 Available under license
1.260 libegl-mesa0 20.0.8-0ubuntu1~18.04.1
1.260.1 Available under license
1.261 containerd-aufs 1.0.0
1.261.1 Available under license
1.262 openssl 1.1.1-1ubuntu2.1~18.04.16
1.262.1 Available under license
1.263 libxcb-keysyms1 0.4.0-1
1.263.1 Available under license
1.264 grep 3.1 2build1
1.264.1 Available under license
1.265 go-units 0.4.0
1.265.1 Available under license
1.266 apacheutils 2.4.29-1ubuntu4.21
1.266.1 Available under license
1.267 xcb-util 0.4.0 0ubuntu3
1.267.1 Available under license
1.268 net-tools 1.60+git20180626.aebd88e 1ubuntu1
   1.268.1 Available under license
1.269 json-iterator-go 1.1.12
   1.269.1 Available under license
1.270 xcb-util-renderutil 0.3.9 1
   1.270.1 Available under license
1.271 docker-cli 0.0.0-20200130152716-5d0cf8839492
   1.271.1 Available under license
1.272 go-autorest-date 0.2.0
   1.272.1 Available under license
1.273 protobuf 1.27.1
   1.273.1 Available under license
1.274 go-diffflib 1.0.0
   1.274.1 Available under license
1.275 aide 0.16-3ubuntu0.1
   1.275.1 Available under license
1.276 llvm-toolchain 10.0.0-4ubuntu1~18.04.2
   1.276.1 Available under license
1.277 apk-tools 2.10.8-r0
   1.277.1 Available under license
1.278 lann-ps 0.0.0-20150810152359-62de8c46ede0
   1.278.1 Available under license
1.279 jquery 3.2.1-1
   1.279.1 Available under license
1.280 ant-contrib 1.0b3
   1.280.1 Available under license
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   1.281.1 Available under license
1.282 x11proto-fixes-dev 2018.4-4
   1.282.1 Available under license
1.283 dpkg 1.19.7ubuntu3.2
   1.283.1 Available under license
1.284 dbus-python 1.2.6 1
   1.284.1 Available under license
1.285 libasounddata 1.1.3-5ubuntu0.6
   1.285.1 Available under license
1.286 irqbalance 1.3.0 0.1ubuntu0.18.04.1
   1.286.1 Available under license
1.287 jinja2 2.10-1.ph3
1.287.1 Available under license
1.288 libmspack 0.6 3ubuntu0.3
   1.288.1 Available under license
1.289 bind 9.16.1-0ubuntu2.10
   1.289.1 Available under license
1.290 libxml2 2.9.10+dfsg 5ubuntu0.20.04.3
   1.290.1 Available under license
1.291 atk 2.28.1 1
   1.291.1 Available under license
1.292 tcpwrappers 7.6.q-27
   1.292.1 Available under license
1.293 ntfs-3g 2017.3.23-2ubuntu0.18.04.4
   1.293.1 Available under license
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   1.294.1 Available under license
1.295 groff 1.22.3-10
   1.295.1 Available under license
1.296 slang 2.3.1a 3ubuntu1
   1.296.1 Available under license
1.297 wavefront-sdk-go 0.9.10
   1.297.1 Available under license
1.298 python-certifi 2022.6.15
   1.298.1 Available under license
1.299 liblua5.2-dev 5.2.4-1.1build1
   1.299.1 Available under license
1.300 python 2.7.15~rc1-1
   1.300.1 Available under license
1.301 perl-modules 5.26.1-6ubuntu0.5
   1.301.1 Available under license
1.302 libxrandr 1.5.1-1
   1.302.1 Available under license
1.303 yq 2.14.0
   1.303.1 Available under license
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1.10 hashicorp-go-secure-stdlib-mlock 0.1.1

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1.13 gopkg.in-tomb 1.0.0-20141024135613-dd632973f1e7
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include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
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1.21 libparse-yapp-perl 1.21-1
1.21.1 Available under license:
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# # Calc.yp
#
# # Parse::Yapp input grammar example.
#
# This file is PUBLIC DOMAIN
#
#
%right '='
%left '-' '+'
%left '*' '/'
%right '^'
%left NEG
%right '^

%%
input:  #empty
| input line  { push(@{$_[1]}.[$_[2]]); $_[1] } |
| line:       '
'                { $_[1] } |
| exp '
'            { print "$_[1]\n" } |
| error '
' { $_[0]->YYErrok } |
exp:      NUM
| VAR                 { $_[0]->YYData->{VARS}->{$[1]} } |
| VAR '=' exp         { $_[0]->YYData->{VARS}->{$[1]}=$_[3] } |
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| exp '+' exp         { $_[1] + $_[3] } |
| exp '-' exp         { $_[1] - $_[3] } |
| exp '*' exp         { $_[1] * $_[3] } |
| exp '/' exp         |
|   $[3]           |
|   and return($[1] / $[3]); |
|   $[0]->YYData->ERRMSG  |
|   = "Illegal division by zero.\n"; |
|   $[0]->YYError; |
|   undef           |
| }                  |
| ' ' exp %prec NEG   { -$[2] } |
| exp '^' exp         { $_[1] ** $[3] } |
| '(' exp ')'         { $[2] } |

%

sub _Error {
    exists $[0]->YYData->ERRMSG and do {
        print $[0]->YYData->ERRMSG;
        delete $[0]->YYData->ERRMSG;
        return;
    };
    print "Syntax error.\n";
}

sub _Lexer {
    my($parser)=shift;

    $parser->YYData->INPUT or $parser->YYData->INPUT = <STDIN> or return('',undef);

    $parser->YYData->INPUT=~s/^[ 	]//;
    for ($parser->YYData->INPUT) {
        s/^([0-9]+(?:\.[0-9]+)?)//
        and return('NUM',$1);
        s/^[A-Za-z][A-Za-z0-9_]*/
        and return('VAR',$1);
        s/^(.)//s
        and return($1,$1);
    }
}

sub Run {

my($self)=shift;
$self->YYParse( yylex => \&_Lexer, yyerror => \&_Error );
}
my($calc)=new Calc;
$calc->Run;
Found in path(s):
* /opt/cola/permits/1357682515_1657073650.7866929/0/libparse-yapp-perl-1-21-orig-1-tar-gz/Parse-Yapp1.21/Calc.yp
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Found in path(s):
* /opt/cola/permits/1357682515_1657073650.7866929/0/libparse-yapp-perl-1-21-orig-1-tar-gz/Parse-Yapp1.21/yapp
* /opt/cola/permits/1357682515_1657073650.7866929/0/libparse-yapp-perl-1-21-orig-1-tar-gz/Parse-Yapp1.21/lib/Parse/Yapp/Parse.pm
No license file was found, but licenses were detected in source scan.
--abstract: unknown
author:
- unknown
build_requires:
ExtUtils::MakeMaker: '0'
configure_requires:
ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150005'
license: unknown
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Parse-Yapp
no_index:
directory:
-t
- inc
version: '1.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'
Found in path(s):
* /opt/cola/permits/1357682515_1657073650.7866929/0/libparse-yapp-perl-1-21-orig-1-tar-gz/Parse-Yapp1.21/META.yml
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use Carp;

my($input,$lexlevel,@lineno,$nberr,$prec,$labelno);
my($syms,$head,$tail,$token,$term,$nterm,$rules,$precterm,$start,$nullable);
my($expect);

# Main rule
yapp:   head body tail ;

#Common rules:
symbol: LITERAL {
    exists($$syms{$_[1][0]})
    or do {
        $$syms{$_[1][0]} = $_[1][1];
        $$term{$_[1][0]} = undef;
    };
    $_[1]
} | ident  #default action

ident: IDENT {
    exists($$syms{$_[1][0]})
    or do {
        $$syms{$_[1][0]} = $_[1][1];
        $$term{$_[1][0]} = undef;
    };


# Head section:
head:   headsec '%%'

;  

headsec: #empty #default action
  |   decls #default action
  ;

decls:   decls decl #default action
  |   decl #default action
  ;

decl:  'n' #default action
  |   TOKEN typedecl symlist 'n'
    |
    { for (@{$_[3]}) { my($symbol,$lineno)=@$_;
                        
        exists($$token{$symbol})
        and do {
            _SyntaxError(0,
                "Token $symbol redefined: ".
                "Previously defined line $$syms{$symbol}",
                $lineno);
            next;
        };
        $$token{$symbol}=$lineno;
        $$term{$symbol} = [ ];
    }
    undef
    }|
    ASSOC typedecl symlist 'n'
      |
      { for (@$_[3]) { my($symbol,$lineno)=@$_;
                        
        defined($$term{$symbol}[0])
        and do {
            _SyntaxError(1,
                "Precedence for symbol $symbol redefined: ".
                "Previously defined line $$syms{$symbol}",
                $lineno);
            };
        };
    };
next;
);

$$token{$symbol}=$lineno;
$$term{$symbol} = [$_[1][0], $prec ];
}
++$prec;
undef

| START ident 'n'       { $start=$_[2][0]; undef }
| HEADCODE 'n'          { push(@$head,$_[1]); undef }
| UNION CODE 'n'        { undef } #ignore
| TYPE typedecl identlist 'n'
  |
    for ( @{$_}[3] ) {
      my($symbol,$lineno)=@$_;
      exists($$nterm{$symbol})
      and do {
        _SyntaxError(0,
          "Non-terminal $symbol redefined: ".
          "Previously defined line $$syms{$symbol},
          $lineno);
        next;
      };
      delete($$term{$symbol});  #not a terminal
      $$nterm{$symbol}=undef;   #is a non-terminal
    }

| EXPECT NUMBER 'n'     { $expect=$_[2][0]; undef }
| error 'n'             { $_[0]->YYErrok }
);

typedecl: #empty
 |
  '< IDENT '>'
;

symlist: symlist symbol { push(@$_[1],$_[2]); $_[1] }
 |
  symbol        { [$_[1]] }
;

identlist: identlist ident { push(@$_[1],$_[2]); $_[1] }
 |
  ident         { [$_[1]] }
;

# Rule section
body: rulesec '% %'
 |
  $start
or $start=$$rules[1][0];

    ref($$nterm{$start})
or _SyntaxError(2,"Start symbol $start not found ".
    "in rules section",$_[2][1]);

$$rules[0]=[ '$start', [ $start, chr(0) ], undef, undef ];
    }
| '%%'    { _SyntaxError(2,"No rules in input grammar",$_[1][1]); } }

rules:IDENT ':' rhss '{' _AddRules($_[1],$_[3]); undef }
|error ';'     { $_[0]->YYErrok }

|rule          { [ $_[1] ] }
rhss:rhss '|' rule  { push(@{$_[1]},$_[3]); $_[1] }
     rules         #default action

     rulesec rules #default action
    |     rules      #default action

     rule:   rhs prec epscode    { push(@{$_[1]},$_[2],$_[3]); $_[1] }
     |   rhs                 {
         my($code)=undef;
         defined($_[1])
         and $_[1][-1][0] eq 'CODE'
         and $code = @{$pop(@{'$_[1]'})}[1];
         push(@{'$_[1]'}, undef, $code);

         $[1]
     }

     rhs:    #empty      #default action (will return undef)
     |   rhselts   #default action

     rhselts:  rhselts rhselt	{ push(@{$_[1]},$_[2]); $_[1] }
     |   rhselt    { [ $_[1] ] }

     rhselt:     symbol  	{ [ 'SYMB', $_[1] ] }
     |  code		{ [ 'CODE', $_[1] ] }


prec: PREC symbol
{
    defined($$term{$_[2][0]})
    or do {
        _SyntaxError(1,"No precedence for symbol "$[2][0]",
        $$[2][1]);
        return undef;
    };
    ++$$precterm{$_[2][0]};
    $$term{$_[2][0]}[1];
} ;

epscde: { undef }
|code { $_[1] }
;

code: CODE { $_[1] }
;

# Tail section:
tail: /*empty*/
    | TAILCODE { $tail=$_[1] }
;

%%
sub _Error {
    my($value)=$_[0]->YYCurval;
    my($what)= $token ? "input: '$$value[0]'" : "end of input";
    _SyntaxError(1,"Unexpected $what","value[1]);
}
sub _Lexer {
    #At EOF
    pos($$input) >= length($$input)
    and return("",[ undef, -1 ]);

    #In TAIL section
    $lexlevel > 1
    and do {
        my($pos)=pos($$input);

$lineno[0]=$lineno[1];
$lineno[1]=-1;
pos($$input)=length($$input);
return('TAILCODE',[ substr($$input,$pos), $lineno[0] ]);}

#Skip blanks
$lexlevel == 0
? $$input=~m\G([^\s\t]*)\n  | \#\[^
*\] # Perl like comments
  | \^\*.*?\*/ # C like comments
  | \^\*\*?\*/ # C like comments
\)+})xsgc
: $$input=~m\G([\s\t\n]*)\n  | \#\[^
*\] # Perl like comments
  | \^\*.*?\*/ # C like comments
  | \^\*\*?\*/ # C like comments
\)+})xsgc
and do {
  my($blanks)=$1;

  #Maybe At EOF
  pos($$input) >= length($$input)
  and return('',[ undef, -1 ]);}

$lineno[1]+= $blanks=~tr/\n//;
}

$lineno[0]=$lineno[1];

$$input=~\G([A-Za-z_]\[A-Za-z0-9_]*)/gc
and return('IDENT',[ $1, $lineno[0] ]);}

$$input=~\G(?::[^\s\n\]\[\}\)]\+?)/gc
and do {
  $1 eq "error"
  and do {
    _SyntaxError(0,"Literal 'error' ",
      "will be treated as error token",$lineno[0]);
    return('IDENT',['error', $lineno[0] ]);}
  return('LITERAL',[ $1, $lineno[0] ]);}

$$input=~\G(%\%)/gc
and do {
  ++$lexlevel;
  return($1, [ $1, $lineno[0] ]);}
$$input=~/\G\{/gc
and do {
  my($level,$from,$code);

  $from=pos($$input);

  $level=1;
  while($$input=~/\{[^{}]*\}/gc) {
    substr($$input,pos($$input)-1,1) eq '\n' #Quoted
    and next;
    $level += ($1 eq '{' ? 1 : -1)
    or last;
  }
  $level
  and _SyntaxError(2,"Unmatched { opened line $lineno[0]'",-1);
  $code = substr($$input,$from,pos($$input)-$from-1);
  $lineno[1]+= $code=~tr/\n//;
  return('CODE',[$code, $lineno[0] ]);}
};

if($lexlevel == 0) {# In head section
  $$input=~/\G%(left|right|nonassoc)/gc
  and return('ASSOC',[ uc($1), $lineno[0] ]);  
  $$input=~/\G%(start)/gc
  and return('START',[ undef, $lineno[0] ]);  
  $$input=~/\G%(expect)/gc
  and return('EXPECT',[ undef, $lineno[0] ]);  
  $$input=~/\G\{[^{}]+\}/gc
  and do {
    my($code);

    $$input=~/\G(?=.*?%)/sgc
    or _SyntaxError(2,"Unmatched %{ opened line $lineno[0]'",-1);

    $code=$1;
    $lineno[1]+= $code=~tr/\n//;
    return('HEADCODE',[$code, $lineno[0] ]);}
};

$$input=~/\G(%(token))/gc
and return('TOKEN',[ undef, $lineno[0] ]);  
$$input=~/\G(%(type))/gc
and return('TYPE',[ undef, $lineno[0] ]);  
$$input=~/\G(%(union))/gc
and return('UNION',[ undef, $lineno[0] ]);  
$$input=~/\G([0-9]+)/gc
and return('NUMBER',[ $1, $lineno[0] ]);  

---

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else {
    # In rule section
    $Sinput =~ /%prec/igc
    and return ('PREC', [undef, $lineno[0]]);
}

# Always return something
$Sinput =~ /\G(\)/sg
or die "Parse::Yapp::Grammar::Parse: Match (\) failed: report as a BUG";

    $1 eq "\n"
and ++$lineno[1];

( $1, [ $1, $lineno[0] ]);
ref($$term{$lhs})
and do {
    my($where) = exists($$token{$lhs}) ? $$token{$lhs} : $$syms{$lhs};
    _SyntaxError(1,"Non-terminal $lhs previously ".
                "declared as token line $where",$lineno);
    return;
};

ref($$nterm{$lhs})      #declared through %type
or  do {
    $$syms{$lhs}=$lineno;   #Say it's declared here
    delete($$term{$lhs});   #No more a terminal
};
$$nterm{$lhs}=[];       #It's a non-terminal now

my($epsrules)=0;       #To issue a warning if more than one epsilon rule

for my $rhs (@$rhss) {
    my($tmprule)=[$lhs, [], splice(@$rhs,-2)]; #Init rule
    @$rhs
    or  do {
        ++$nullable{$lhs};
        ++$epsrules;
    };

    for (0..$#$rhs) {
        my($what,$value)=@{$$rhs[$_]};
        $what eq 'CODE'
        and do {
            my($name)="@".+$labelno.".-$_";
            push(@$rules,[ $name, [], undef, $value ]);  
            push(@( $tmprule[1],$name);  
            next;
        };
        push(@( $tmprule[1] ,$value[0]);
    }
    push(@( $tmprule,$tmprule);
    push(@( $$nterm{$lhs} ),$#$rules);
}

$epsrules > 1
and _SyntaxError(0,"More than one empty rule for symbol $lhs",$lineno);
}
sub Parse {
    my($self)=shift;

    @_ > 0
    or  croak("No input grammar\n");

    my($parsed)=

    $input=\$[0];

    $lexlevel=0;
    @lineno=(1,1);
    $nberr=0;
    $prec=0;
    $labelno=0;

    $head=();
    $tail="";

    $syms={};
    $token={};
    $term={};
    $nterm={};
    $rules=[ undef ];  #reserve slot 0 for start rule
    $precterm={};

    $start="";
    $nullable={};
    $expect=0;

    pos($$input)=0;

    $self->YYParse(yylex => \&_Lexer, yyerror => \&_Error);

    $nberr
    and _SyntaxError(2,"Errors detected: No output",-1);

    @$parsed{ 'HEAD', 'TAIL', 'RULES', 'NTERM', 'TERM',
        'NULL', 'PREC', 'SYMS', 'START', 'EXPECT' } =
        ( $head, $tail, $rules, $nterm, $term,
        $nullable, $precterm, $syms, $start, $expect);

    undef($input);
    undef($lexlevel);
    undef(@lineno);
    undef($nberr);
    undef($prec);
Found in path(s):
* /opt/cola/permits/1357682515_1657073650.7866929/0/libparse-yapp-perl-1-21-orig-1-tar-gz/Parse-Yapp-1.21/YappParse.yp

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=encoding UTF-8

=head1 NAME

Parse::Yapp - Perl extension for generating and using LALR parsers.

=head1 SYNOPSIS

yapp -m MyParser grammar_file.yp

...

use MyParser;

$parser=new MyParser();
$value=$parser->YYParse(yylex => \&lexer_sub, yyerror => \&error_sub);

$niberr=$parser->YYNberr();

$parser->YYData->{DATA} = [ 'Anything', 'You Want' ];

$data=$parser->YYData->{DATA}[[0]];
Parse::Yapp (Yet Another Perl Parser compiler) is a collection of modules that let you generate and use yacc like thread safe (reentrant) parsers with perl object oriented interface.

The script yapp is a front-end to the Parse::Yapp module and let you easily create a Perl OO parser from an input grammar file.

The Grammar file

Through all your files, comments are either Perl style, introduced by `#` up to the end of line, or C style, enclosed between `/*` and `*/`.

Through all the grammar files, two kind of symbols may appear: Non-terminal symbols, called also left-hand-side symbols, which are the names of your rules, and Terminal symbols, called also Tokens.

Tokens are the symbols your lexer function will feed your parser with (see below). They are of two flavours: symbolic tokens and string literals.

Non-terminals and symbolic tokens share the same identifier syntax:

```
[A-Za-z][A-Za-z0-9_]*
```

String literals are enclosed in single quotes and can contain almost anything. They will be output to your parser file double-quoted, making any special character as such. ‘ ’, ‘$’ and ‘@’ will be automatically quoted with ‘\’, making their writing more natural. On the other hand, if you need a single quote inside your literal, just quote it with ‘\’.

You cannot have a literal `error` in your grammar as it would confuse the driver with the `error` token. Use a symbolic token instead. In case you inadvertently use it, this will produce a warning telling you you should have written it `error` and will treat it as if it were the `error` token, which is certainly NOT what you meant.
Grammar file syntax

It is very close to yacc syntax (in fact, Parse::Yapp should compile a clean yacc grammar without any modification, whereas the opposite is not true).

This file is divided in three sections, separated by `%%`:

header section

rules section

footer section

The Header Section section may optionally contain:

One or more code blocks enclosed inside `%%` just like in yacc. They may contain any valid Perl code and will be copied verbatim at the very beginning of the parser module. They are not as useful as they are in yacc, but you can use them, for example, for global variable declarations, though you will notice later that such global variables can be avoided to make a reentrant parser module.

Precedence declarations, introduced by `%left`, `%right` and `%nonassoc` specifying associativity, followed by the list of tokens or literals having the same precedence and associativity. The precedence being the latter declared will be having the highest level. (see the yacc or bison manuals for a full explanation of how they work, as they are implemented exactly the same way in Parse::Yapp)

C `<%start>` followed by a rule's left hand side, declaring this rule to be the starting rule of your grammar. The default, when `<%start>` is not used, is the first rule in your grammar section.

C `<%token>` followed by a list of symbols, forcing them to be recognized as tokens, generating a syntax error if used in the left hand side of
a rule declaration.  
Note that in Parse::Yapp, you don't need to declare tokens as in yacc: any symbol not appearing as a left hand side of a rule is considered to be a token.  
Other yacc declarations or constructs such as C<%type> and C<%union> are parsed but (almost) ignored.

=item *

C<%expect> followed by a number, suppress warnings about number of Shift/Reduce conflicts when both numbers match, a la bison.

=back

=back

=item B<The Rule Section> contains your grammar rules:

A rule is made of a left-hand-side symbol, followed by a C<':'> and one or more right-hand-sides separated by C<'|'> and terminated by a C<';'>:

exp:    exp '+' exp  
       |    exp '-' exp  
       ;

A right hand side may be empty:

input:  #empty  
       |    input line  
       ;

(if you have more than one empty rhs, Parse::Yapp will issue a warning, as this is usually a mistake, and you will certainly have a reduce/reduce conflict)

A rhs may be followed by an optional C<%prec> directive, followed by a token, giving the rule an explicit precedence (see yacc manuals for its precise meaning) and optional semantic action code block (see below).

exp:     '-' exp %prec NEG { -$_[1] }  
       |    exp '+' exp       { $_[1] + $_[3] }  
       |    NUM               
       ;

Note that in Parse::Yapp, a lhs C<cannot> appear more than once as a rule name (This differs from yacc).
The footer section

may contain any valid Perl code and will be appended at the very end of your parser module. Here you can write your lexer, error report subs and anything relevant to your parser.

Semantic actions are run every time a reduction occurs in the parsing flow and they must return a semantic value.

They are (usually, but see below In rule actions) written at the very end of the rhs, enclosed with { }, and are copied verbatim to your parser file, inside of the rules table.

Be aware that matching braces in Perl is much more difficult than in C: inside strings they don't need to match. While in C it is very easy to detect the beginning of a string construct, or a single character, it is much more difficult in Perl, as there are so many ways of writing such literals. So there is no check for that today. If you need a brace in a double-quoted string, just quote it (C\{ > or C\<\}). For single-quoted strings, you will need to make a comment matching it in the right order.

Sorry for the inconvenience.

{  
  "{ My string block }".
  "\{ My other string block \}".
  qq/ My unmatched brace \} /.
  # Force the match: {
  q/ for my closing brace } /  
  q/ My opening brace { /  
  # must be closed: }
}

All of these constructs should work.

In Parse::Yapp, semantic actions are called like normal Perl sub calls, with their arguments passed in C<@_>, and their semantic value are their return values.

$_[1] to $_[n] are the parameters just as $1 to $n in yacc, while $_[0] is the parser object itself.

Having $_[0] being the parser object itself allows you to call
parser methods. That's how the yacc macros are implemented:

yyerrok is done by calling $_[0]->YYErrok
YYERROR is done by calling $_[0]->YYError
YYACCEPT is done by calling $_[0]->YYAccept
YYABORT is done by calling $_[0]->YYAbort

All those methods explicitly return I<undef>, for convenience.

YYRECOVERING is done by calling $_[0]->YYRecovering

Four useful methods in error recovery sub

$_[0]->YYCurtok
$_[0]->YYCurval
$_[0]->YYExpect
$_[0]->YYLexer

return respectively the current input token that made the parse fail,
its semantic value (both can be used to modify their values too, but
I<know what you are doing> ! See I<Error reporting routine> section for
an example), a list which contains the tokens the parser expected when
the failure occurred and a reference to the lexer routine.

Note that if C<$_[0]-E<gt>YYCurtok> is declared as a C<%nonassoc> token,
it can be included in C<$_[0]-E<gt>YYExpect> list whenever the input
try to use it in an associative way. This is not a bug: the token
IS expected to report an error if encountered.

To detect such a thing in your error reporting sub, the following
equation should do the trick:

grep { $_[0]->YYCurtok eq $_ } $_[0]->YYExpect
and do {
  #Non-associative token used in an associative expression
};

Accessing semantics values on the left of your reducing rule is done
through the method

$_[0]->YYSemval( index )

where index is an integer. Its value being I<1 .. n> returns the same values
than I<$[1] .. $[n]>, but I<-n .. 0> returns values on the left of the rule
being reduced (It is related to I<$-n .. $0 .. $n> in yacc, but you
cannot use I<$[0]> or I<$[-n]> constructs in Parse::Yapp for obvious reasons)
There is also a provision for a user data area in the parser object, accessed by the method:

$_[0]->YYData

which returns a reference to an anonymous hash, which let you have all of your parsing data held inside the object (see the Calc.yp or ParseYapp.yp files in the distribution for some examples). That's how you can make you parser module reentrant: all of your module states and variables are held inside the parser object.

Note: unfortunately, method calls in Perl have a lot of overhead, and when YYData is used, it may be called a huge number of times. If your are not a *real* purist and efficiency is your concern, you may access directly the user-space in the object: $parser->{USER} which is a reference to an anonymous hash array, and then benchmark.

If no action is specified for a rule, the equivalent of a default action is run, which returns the first parameter:

{ $_[1] }

=item C<In rule actions>

It is also possible to embed semantic actions inside of a rule:

typedef:    TYPE { $type = $_[1] } identlist { ... } ;

When the Parse::Yapp's parser encounter such an embedded action, it modifies the grammar as if you wrote (although @x-1 is not a legal lhs value):

@x-1:   /* empty */ { $type = $_[1] } ;
   typedef:    TYPE @x-1 identlist { ... } ;

where I<x> is a sequential number incremented for each "in rule" action, and I<-1> represents the "dot position" in the rule where the action arises.

In such actions, you can use I<$[1]..$[n]> variables, which are the semantic values on the left of your action.

Be aware that the way Parse::Yapp modifies your grammar because of I<in rule actions> can produce, in some cases, spurious conflicts that wouldn't happen otherwise.

=item C<Generating the Parser Module>

Now that you grammar file is written, you can use yapp on it
to generate your parser module:

    yacc -v Calc.yp

will create two files F<Calc.pm>, your parser module, and F<Calc.output>
a verbose output of your parser rules, conflicts, warnings, states
and summary.

What your are missing now is a lexer routine.

=item C<The Lexer sub>

is called each time the parser need to read the next token.

It is called with only one argument that is the parser object itself,
so you can access its methods, specially the

    $_[0]->YYData

data area.

It is its duty to return the next token and value to the parser.
They C<must> be returned as a list of two variables, the first one
is the token known by the parser (symbolic or literal), the second
one being anything you want (usually the content of the token, or the
literal value) from a simple scalar value to any complex reference,
as the parsing driver never use it but to call semantic actions:

    ( 'NUMBER', $num )
    or
    ( '>=', '=>' )
    or
    ( 'ARRAY', [ @values ] )

When the lexer reach the end of input, it must return the C<''>
empty token with an undef value:

    ( '', undef )

Note that your lexer should I<never> return C<''error''> as token
value: for the driver, this is the error token used for error
recovery and would lead to odd reactions.

Now that you have your lexer written, maybe you will need to output
meaningful error messages, instead of the default which is to print
'Parse error.' on STDERR.

So you will need an Error reporting sub.
=item C<Error reporting routine>

If you want one, write it knowing that it is passed as parameter
the parser object. So you can share information with the lexer
routine quite easily.

You can also use the C<$_[0]-E.gt>YYErrok> method in it, which will
resume parsing as if no error occurred. Of course, since the invalid
token is still invalid, you're supposed to fix the problem by
yourself.

The method C<$_[0]-E.gt>YYLexer> may help you, as it returns a reference
to the lexer routine, and can be called as

($tok,$val)=&{$_[0]-.Lexer}

to get the next token and semantic value from the input stream. To
make them current for the parser, use:

($_[0]->YYCurtok, $_[0]->YYCurval) = ($tok, $val)

and know what you're doing...

=item C<Parsing>

Now you've got everything to do the parsing.

First, use the parser module:

    use Calc;

Then create the parser object:

    $parser=new Calc;

Now, call the YYParse method, telling it where to find the lexer
and error report subs:

    $result=$parser->YYParse(yylex => \&Lexer,
                           yyerror => \&ErrorReport);

(assuming Lexer and ErrorReport subs have been written in your current
package)

The order in which parameters appear is unimportant.

Et voila.
The YYParse method will do the parse, then return the last semantic value returned, or undef if error recovery cannot recover.

If you need to be sure the parse has been successful (in case your last returned semantic value is undef) make a call to:

$parser->YYNberr()

which returns the total number of time the error reporting sub has been called.

=item C<Error Recovery>

in Parse::Yapp is implemented the same way it is in yacc.

=item C<Debugging Parser>

To debug your parser, you can call the YYParse method with a debug parameter:

$parser->YYParse( ... , yydebug => value, ... )

where value is a bitfield, each bit representing a specific debug output:

<table>
<thead>
<tr>
<th>Bit Value</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x01</td>
<td>Token reading (useful for Lexer debugging)</td>
</tr>
<tr>
<td>0x02</td>
<td>States information</td>
</tr>
<tr>
<td>0x04</td>
<td>Driver actions (shifts, reduces, accept...)</td>
</tr>
<tr>
<td>0x08</td>
<td>Parse Stack dump</td>
</tr>
<tr>
<td>0x10</td>
<td>Error Recovery tracing</td>
</tr>
</tbody>
</table>

To have a full debugging output, use

debug => 0x1F

Debugging output is sent to STDERR, and be aware that it can produce huge outputs.

=item C<Standalone Parsers>

By default, the parser modules generated will need the Parse::Yapp module installed on the system to run. They use the Parse::Yapp::Driver which can be safely shared between parsers in the same script.

In the case you'd prefer to have a standalone module generated, use the C<-s> switch with yapp: this will automagically copy the driver code into your module so you can use/distribute it without the need of the Parse::Yapp module, making it really a C<Standalone Parser>.
If you do so, please remember to include Parse::Yapp's copyright notice in your main module copyright, so others can know about Parse::Yapp module.

=item C<Source file line numbers>

by default will be included in the generated parser module, which will help to find the guilty line in your source file in case of a syntax error. You can disable this feature by compiling your grammar with yap using the C<-n> switch.

=back

=head1 BUGS AND SUGGESTIONS

If you find bugs, think of anything that could improve Parse::Yapp or have any questions related to it, feel free to contact the author.

=head1 AUTHOR

William N. Braswell, Jr. <wbraswell_cpan@NOSPAM.nym.hush.com>
(Remove "NOSPAM".)

=head1 SEE ALSO

yapp(1) perl(1) yacc(1) bison(1).

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=cut

Found in path(s):
* /opt/cola/permits/1357682515_1657073650.7866929/0/libparse-yapp-perl-1-21-orig-1-tar-gz/Parse-Yapp-1.21/lib/Parse/Yapp.pm
1.22 go-pkcs11uri 0.0.0-20201008174630-78d3cae3a980

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1.26 x11proto-xinerama-dev 2018.4-4

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{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s\", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sys_ctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "__umtx_op", "%s(%d, %d, %#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...

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{ 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 },
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{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
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{ 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, 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 },
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{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d,%d,"%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s", %d, "%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s("%s", %d, "%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d,%d,"%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s", %d, "%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("%s", %d, "%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d,%d,"%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", %d, "%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", %d, "%s", %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_fhstats, "fhstats", 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_stats, "fstatfs", "%s(%d,"%#x")", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", 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 },

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

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1.30 cron 3.0pl1 128.1ubuntu1.2

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* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]

Open Source Used In 5GaaS Edge 9.70 280
This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-1ubuntu1-2-os-ubuntu-18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0p11-128-1ubuntu1-2-os-ubuntu-18-04-tar-xz/cron-
3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL
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* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
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* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
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* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c

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* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
* /opt/cola/permits/1348467277_1655824653.0790102/0/cron-3-0pl1-128-lubuntu1-2-os-ubuntu18-04-tar-xz/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1

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1.31 hashicorp-go-plugin 1.4.3

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1.38 types-python-dateutil 2.8.19

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Name: types-python-dateutil
Version: 2.8.19
Summary: Typing stubs for python-dateutil
## Typing stubs for python-dateutil

This is a PEP 561 type stub package for the `python-dateutil` package. It can be used by type-checking tools like mypy, PyCharm, pytype etc. to check code that uses `python-dateutil`. The source for this package can be found at https://github.com/python/typeshed/tree/master/stubs/python-dateutil. All fixes for types and metadata should be contributed there.

See https://github.com/python/typeshed/blob/master/README.md for more details.

This package was generated from typeshed commit `e3d4bdc91a792bcef5d8eae2c1abab3d4ba27541`.

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Upstream-Name: Locale-gettext
Upstream-Contact: Phillip Vandry <vandry@TZoNE.ORG>
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1.41 kubernetes-component-base 0.19.3

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1.42 python 3.6.9 1~18.04ubuntu1.6

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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The `_random' module includes code based on a download from
`http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html'. The
following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
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Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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

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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.
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</tr>
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</tr>
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<td>1995-1999</td>
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<td>1.5.2</td>
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

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Sockets
-------

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- Use binascii module to do the actual line-by-line conversion
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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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<th>Year</th>
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<th>GPL-compatible? (1)</th>
</tr>
</thead>
</table>

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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1.45 libxtst 1.2.3-1

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

Thanks to the following people for their input:
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*/

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1.51 mccabe 0.7.0

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1.52 x-text 0.3.6

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1.53 sys-mountinfo 0.5.0

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1.55 libpython 3.6.9-1~18.04ubuntu1.8

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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 the various releases.

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{ 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_dequeue, "dequeue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "preat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", 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_realfork, "realfork", 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", NULL, 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 ],
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[ 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_shutdown, "shutdown", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL ],
[ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%p,%p)", NULL, NULL ],
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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.

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1.69 cron 3.0pl1 136ubuntu1

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Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. You should check this out.

say:
makemake all

su and say:
makesu install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.
Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
 crontab -u news -r /usr/lib/news/crontab.src
 crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"’s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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" */
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" */

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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-
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 /*

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1.70 snappy 1.1.7-1

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/**
 * Returns an array containing all of the elements in this queue, in proper sequence.
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this queue. (In other words, this method must allocate a new array). The
 * caller is free to modify the returned array.
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 * *
 * @return an array containing all of the elements in this queue
 */

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*/
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1.74 open-ldap 2.4.49+dfsg-2ubuntu1.9
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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Lato font family

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Version 2.007; Latin+Cyrillic+Greek+IPA opensource

Created by: tyPoland Lukasz Dziedzic
Creation year: 2014
Lato is a sanserif typeface family designed in the Summer 2010 by Warsaw-based designer ukasz Dziedzic (“Lato” means “Summer” in Polish). In December 2010 the Lato family was published under the open-source Open Font License by his foundry tyPoland, with support from Google. In 2013-2014, the family was greatly extended to cover 2300+ glyphs per style. It now supports 100+ Latin-based languages, 50+ Cyrillic-based languages as well as Greek and IPA phonetics. In the process, the metrics and kerning of the family have been revised and four additional weights were created.

In the last ten or so years, during which ukasz has been designing type, most of his projects were rooted in a particular design task that he needed to solve. With Lato, it was no different. Originally, the family was conceived as a set of corporate fonts for a large client — who in the end decided to go in different stylistic direction, so the family became available for a public release.

When working on Lato, ukasz tried to carefully balance some potentially conflicting priorities. He wanted to create a typeface that would seem quite “transparent” when used in body text but would display some original traits when used in larger sizes. He used classical proportions (particularly visible in the uppercase) to give the letterforms familiar harmony and elegance. At the same time, he created a sleek sanserif look, which makes evident the fact that Lato was designed in 2010 — even though it does not follow any current trend.

The semi-rounded details of the letters give Lato a feeling of warmth, while the strong structure provides stability and seriousness. “Male and female, serious but friendly. With the feeling of the Summer,” says ukasz.

Lato consists of nine weights (plus corresponding italics), including a beautiful hairline style.

CONTENTS:

This folder contains 18 font files in OpenType TT (.ttf) format. You can install these fonts on your computer and use in any desktop applications (such as Word, InDesign, Illustrator, Photoshop, Keynote or Pages).

REVISION LOG:

# Version 2.007 (2014-02-27)
Greatly expanded character set, revised metrics, four additional weights.
# Version 1.104 (2011-11-08)
Merged the distribution again
Autohinted with updated ttfautohint 0.4 (which no longer causes Adobe and iOS problems)
except the Hai and Lig weights which are hinted in FLS 5.1.

# Version 1.102 (2011-10-28)
Added OpenType Layout features
Ssplit between desktop and web versions
Desktop version: all weights autohinted with FontLab Studio
Web version autohinted with ttfautohint 0.4 except the Hai and Lig weights

# Version 1.101 (2011-09-30)
Fixed OS/2 table Unicode and codepage entries

# Version 1.100 (2011-09-12)
Added Polish diacritics to the character set
Weights Hai and Lig autohinted with FontLab Studio
Other weights autohinted with ttfautohint 0.3

# Version 1.011 (2010-12-29)
Added the soft hyphen glyph

# Version 1.010 (2010-12-13)
Initial version released under SIL Open Font License
Western character set

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Found in path(s):
* /opt/cola/permits/1137147948_1614022892.23/0/fonts-lato-2-0-orig-2-tar-xz/fonts-lato-2.0/README.txt
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1.87 moby-spdystream 0.2.0

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1.88 nghttp2 1.30.0-1ubuntu1

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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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1.94.1 Available under license :
# Contributions to the urllib3 project

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## Contributors

In chronological order:

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  * 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/@WBRSRiBZDhBFXQB6/>
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* 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 <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

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

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

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

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

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

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

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

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

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

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

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

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

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

* Arthur Grunseid <http://grunseid.com>
  * 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 <abacababadabacaba@gmail.com>
  * Bugfixes

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

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

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

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.
* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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"@(#)queue.3 8.2 (Berkeley) 1/24/94
"$FreeBSD$
"
.Dt QUEUE 3
.Os
.Sh NAME
.Nm SLIST_EMPTY ,
.Nm SLIST_ENTRY ,
.Nm SLIST_FIRST ,
.Nm SLIST_FOREACH ,
.Nm SLIST_FOREACH_SAFE ,
.Nm SLIST_HEAD ,
.Nm SLIST_HEAD_INITIALIZER ,
.Nm SLIST_INIT ,
.Nm SLIST_INSERT_AFTER ,
.Nm SLIST_INSERT_HEAD ,
.Nm SLIST_NEXT ,
.Nm SLIST_REMOVE_AFTER ,
.Nm SLIST_REMOVE_HEAD ,
.Nm SLIST_REMOVE ,
.Nm SLIST_SWAP ,
.Nm STAILQ_CONCAT ,
.Nm STAILQ_EMPTY ,
.Nm STAILQ_ENTRY ,
.Nm STAILQ_FIRST ,
.Nm STAILQ_FOREACH ,
.Nm STAILQ_FOREACH_SAFE ,
.Nm STAILQ_HEAD ,
.Nm STAILQ_HEAD_INITIALIZER ,
.Nm STAILQ_INIT ,
.Nm STAILQ_INSERT_AFTER ,
.Nm STAILQ_INSERT_HEAD ,
.Nm STAILQ_INSERT_TAIL ,
.Nm STAILQ_LAST ,
.Nm STAILQ_NEXT ,
.Nm STAILQ_REMOVE_AFTER ,
.Nm STAILQ_REMOVE_HEAD ,
.Nm STAILQ_REMOVE ,
.Nm STAILQ_SWAP ,
.Nm LIST_EMPTY ,
.Nm LIST_ENTRY ,
.Nm LIST_FIRST ,
.Nm LIST_FOREACH ,
.Nm LIST_FOREACH_SAFE ,
.Nm LIST_HEAD ,
.Nm LIST_HEAD_INITIALIZER ,
.Nm LIST_INIT ,
.Nm LIST_INSERT_AFTER ,
.Nm LIST_INSERT_BEFORE ,
.Nm LIST_INSERT_HEAD ,
Nd implementations of singly-linked lists, singly-linked tail queues, lists and tail queues.

Sh SYNOPSIS
In sys/queue.h

\"n
.Fn SLIST_EMPTY "SLIST_HEAD *head"
.Fn SLIST_ENTRY "TYPE"
.Fn SLIST_FIRST "SLIST_HEAD *head"
.Fn SLIST_FOREACH "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_FOREACH_SAFE "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME" "TYPE *temp_var"
.Fn SLIST_HEAD "HEADNAME" "TYPE"
.Fn SLIST_HEAD_INITIALIZER "SLIST_HEAD head"
.Fn SLIST_INIT "SLIST_HEAD *head"
.Fn SLIST_INSERT_AFTER "TYPE *listelm" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_INSERT_HEAD "SLIST_HEAD *head" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_NEXT "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_AFTER "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_HEAD "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE "SLIST_HEAD *head" "TYPE *elm" "TYPE" "SLIST_ENTRY NAME"
.Fn SLIST_SWAP "SLIST_HEAD *head1" "SLIST_HEAD *head2" "SLIST_ENTRY NAME"
\"n
.Fn STAILQ_CONCAT "STAILQ_HEAD *head1" "STAILQ_HEAD *head2"
.Fn STAILQ_EMPTY "STAILQ_HEAD *head"
.Fn STAILQ_ENTRY "TYPE"
.Fn STAILQ_FIRST "STAILQ_HEAD *head"
.Fn TAILQ_INSERT_HEAD "TAILQ_HEAD *head" "TYPE *elm" "TAILQ_ENTRY NAME"
.Fn TAILQ_INSERT_TAIL "TAILQ_HEAD *head" "TYPE *elm" "TAILQ_ENTRY NAME"
.Fn TAILQ_LAST "TAILQ_HEAD *head" "HEADNAME"
.Fn TAILQ_NEXT "TYPE *elm" "TAILQ_ENTRY NAME"
.Fn TAILQ_PREV "TYPE *elm" "HEADNAME" "TAILQ_ENTRY NAME"
.Fn TAILQ_REMOVE "TAILQ_HEAD *head" "TYPE *elm" "TAILQ_ENTRY NAME"
.Fn TAILQ_SWAP "TAILQ_HEAD *head1" "TAILQ_HEAD *head2" "TYPE" "TAILQ_ENTRY NAME"
"
.Sh DESCRIPTION
These macros define and operate on four types of data structures: singly-linked lists, singly-linked tail queues, lists, and tail queues.
All four structures support the following functionality:
.Bl -enum -compact -offset indent
 .It
Insertion of a new entry at the head of the list.
 .It
Insertion of a new entry after any element in the list.
 .It
O(1) removal of an entry from the head of the list.
 .It
Forward traversal through the list.
 .It
Swapping the contents of two lists.
 .El
 .Pp
Singly-linked lists are the simplest of the four data structures and support only the above functionality.
Singly-linked lists are ideal for applications with large datasets and few or no removals, or for implementing a LIFO queue.
Singly-linked lists add the following functionality:
.Bl -enum -compact -offset indent
 .It
O(n) removal of any entry in the list.
 .El
 .Pp
Singly-linked tail queues add the following functionality:
.Bl -enum -compact -offset indent
 .It
Entries can be added at the end of a list.
 .It
O(n) removal of any entry in the list.
 .It
They may be concatenated.
 .El
However:
All list insertions must specify the head of the list.

Each head entry requires two pointers rather than one.

Code size is about 15% greater and operations run about 20% slower than singly-linked lists.

Singly-linked tailqs are ideal for applications with large datasets and few or no removals, or for implementing a FIFO queue.

All doubly linked types of data structures (lists and tail queues) additionally allow:

- Insertion of a new entry before any element in the list.
- O(1) removal of any entry in the list.

However:

Each element requires two pointers rather than one.

Code size and execution time of operations (except for removal) is about twice that of the singly-linked data-structures.

Linked lists are the simplest of the doubly linked data structures and support only the above functionality over singly-linked lists.

Tail queues add the following functionality:

Entries can be added at the end of a list.

They may be traversed backwards, from tail to head.

They may be concatenated.

However:

All list insertions and removals must specify the head of the list.

Each head entry requires two pointers rather than one.
Code size is about 15% greater and operations run about 20% slower than singly-linked lists.

In the macro definitions,

is the name of a user defined structure, that must contain a field of type

or

named

The argument

is the name of a user defined structure that must be declared using the macros

or

See the examples below for further explanation of how these macros are used.

A singly-linked list is headed by a structure defined by the macro.

This structure contains a single pointer to the first element on the list.
The elements are singly linked for minimum space and pointer manipulation overhead at the expense of O(n) removal for arbitrary elements.

New elements can be added to the list after an existing element or at the head of the list.

An structure is declared as follows:

where

is the name of the structure to be defined, and

is the type of the elements to be linked into the list.
A pointer to the head of the list can later be declared as:

```
struct HEADNAME *headp;
```

(The names `head` and `headp` are user selectable.)

The macro `SLIST_HEAD_INITIALIZER` evaluates to an initializer for the list.

The macro `SLIST_EMPTY` evaluates to true if there are no elements in the list.

The macro `SLIST_ENTRY` declares a structure that connects the elements in the list.

The macro `SLIST_FIRST` returns the first element in the list or NULL if the list is empty.

However, unlike `SLIST_FOREACH` here it is permitted to both remove and assign each element in turn to `var`.

The macro `SLIST_FOREACH_SAFE` traverses the list referenced by `head` in the forward direction, assigning each element in turn to `var`.
as well as free it from within the loop safely without interfering with the traversal.

.Pp
The macro
.Nm SLIST_INIT
initializes the list referenced by
.Fa head.

.Pp
The macro
.Nm SLIST_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the list.

.Pp
The macro
.Nm SLIST_INSERT_AFTER
inserts the new element
.Fa elm
after the element
.Fa listelm.

.Pp
The macro
.Nm SLIST_REMOVE_AFTER
removes the element after
.Fa elm
from the list. Unlike
.Fa SLIST_REMOVE,
this macro does not traverse the entire list.

.Pp
The macro
.Nm SLIST_REMOVE_HEAD
removes the element
.Fa elm
from the head of the list.

For optimum efficiency, elements being removed from the head of the list should explicitly use this macro instead of the generic
.Fa SLIST_REMOVE macro.

.Pp
The macro
.Nm SLIST_REMOVE
removes the element
.Fa elm
from the list.

The macro

swaps the contents of

and


Sh SINGLY-LINKED LIST EXAMPLE

SLIST_HEAD(slisthead, entry) head =
SLIST_HEAD_INITIALIZER(head);
struct slisthead *headp;/* Singly-linked List head. */
struct entry {
...
SLIST_ENTRY(entry) entries;/* Singly-linked List. */
...
} *n1, *n2, *n3, *np;

SLIST_INIT(&head); /* Initialize the list. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
SLIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
SLIST_INSERT_AFTER(n1, n2, entries);

SLIST_REMOVE(&head, n2, entry, entries); /* Deletion. */
free(n2);

n3 = SLIST_FIRST(&head);
SLIST_REMOVE_HEAD(&head, entries); /* Deletion from the head. */
free(n3);
/* Forward traversal. */
SLIST_FOREACH(np, &head, entries)
np-> ...
/* Safe forward traversal. */
SLIST_FOREACH_SAFE(np, &head, entries, np_temp) {
np->do_stuff();
...
SLIST_REMOVE(&head, np, entry, entries);
free(np);
}

while (!SLIST_EMPTY(&head)) { /* List Deletion. */
 n1 = SLIST_FIRST(&head);
 SLIST_REMOVE_HEAD(&head, entries);
 free(n1);
A singly-linked tail queue is headed by a structure defined by the macro.

This structure contains a pair of pointers, one to the first element in the tail queue and the other to the last element in the tail queue.

The elements are singly linked for minimum space and pointer manipulation overhead at the expense of O(n) removal for arbitrary elements.

New elements can be added to the tail queue after an existing element, at the head of the tail queue, or at the end of the tail queue.

A structure is declared as follows:

```c
STAILQ_HEAD(HEADNAME, TYPE) head;
```

where

- `HEADNAME` is the name of the structure to be defined, and
- `TYPE` is the type of the elements to be linked into the tail queue.

A pointer to the head of the tail queue can later be declared as:

```c
struct HEADNAME *headp;
```

(The names `head` and `headp` are user selectable.)

The macro evaluates to an initializer for the tail queue.

The macro concatenates the tail queue headed by onto the end of the one headed by.
removing all entries from the former.

The macro

 evaluates to true if there are no items on the tail queue.

The macro

 declares a structure that connects the elements in the tail queue.

The macro

 returns the first item on the tail queue or NULL if the tail queue is empty.

The macro

 traverses the tail queue referenced by in the forward direction, assigning each element in turn to .

The macro

 traverses the tail queue referenced by in the forward direction, assigning each element in turn to . However, unlike here it is permitted to both remove as well as free it from within the loop safely without interfering with the traversal.

The macro

 initializes the tail queue referenced by .

The macro

 inserts the new element at the head of the tail queue.
The macro \texttt{STAILQ\_INSERT\_TAIL} inserts the new element \texttt{elm} at the end of the tail queue.

The macro \texttt{STAILQ\_INSERT\_AFTER} inserts the new element \texttt{elm} after the element \texttt{listelm}.

The macro \texttt{STAILQ\_LAST} returns the last item on the tail queue.
If the tail queue is empty the return value is \texttt{NULL}.

The macro \texttt{STAILQ\_NEXT} returns the next item on the tail queue, or \texttt{NULL} this item is the last.

The macro \texttt{STAILQ\_REMOVE\_AFTER} removes the element after \texttt{elm} from the tail queue. Unlike \texttt{STAILQ\_REMOVE}, this macro does not traverse the entire tail queue.

The macro \texttt{STAILQ\_REMOVE\_HEAD} removes the element at the head of the tail queue.
For optimum efficiency, elements being removed from the head of the tail queue should use this macro explicitly rather than the generic \texttt{STAILQ\_REMOVE} macro.

The macro \texttt{STAILQ\_REMOVE} removes the element \texttt{elm} from the tail queue.
.Nm STAILQ_SWAP

swaps the contents of
.head1
and
.head2.

.Sh SINGLY-LINKED TAIL QUEUE EXAMPLE
..literal

STAILQ_HEAD(stailhead, entry) head =
STAILQ_HEAD_INITIALIZER(head);

struct stailhead *headp;/* Singly-linked tail queue head. */
struct entry {
...
STAILQ_ENTRY(entry) entries;/* Tail queue. */
...
}*n1, *n2, *n3, *np;

STAILQ_INIT(&head);/* Initialize the queue. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
STAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry));/* Insert at the tail. */
STAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
STAILQ_INSERT_AFTER(&head, n1, n2, entries);
/* Deletion. */
STAILQ_REMOVE(&head, n2, entry, entries);
free(n2);
/* Deletion from the head. */
n3 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n3);
/* Forward traversal. */
STAILQ_FOREACH(np, &head, entries)
p-> ...
/* Safe forward traversal. */
STAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
 np->do_stuff();
...
STAILQ_REMOVE(&head, np, entry, entries);
free(np);
}
/* TailQ Deletion. */
while (!STAILQ_EMPTY(&head)) {
 n1 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n1);
}
/* Faster TailQ Deletion. */

n1 = STAILQ_FIRST(&head);
while (n1 != NULL) {
    n2 = STAILQ_NEXT(n1, entries);
    free(n1);
    n1 = n2;
}

STAILQ_INIT(&head);

A list is headed by a structure defined by the
LIST_HEAD macro.
This structure contains a single pointer to the first element
on the list.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the list.
New elements can be added to the list after an existing element,
before an existing element, or at the head of the list.

A
LIST_HEAD
structure is declared as follows:

LIST_HEAD(HEADNAME, TYPE) head;

where
HEADNAME
is the name of the structure to be defined, and
TYPE
is the type of the elements to be linked into the list.
A pointer to the head of the list can later be declared as:

struct HEADNAME *headp;

(The names
head and
headp are user selectable.)
The macro
LIST_HEAD_INITIALIZER
evaluates to an initializer for the list
head.
The macro 
.Nm LIST_EMPTY
evaluates to true if there are no elements in the list.
.Pp
The macro 
.Nm LIST_ENTRY
declares a structure that connects the elements in
the list.
.Pp
The macro 
.Nm LIST_FIRST
returns the first element in the list or NULL if the list
is empty.
.Pp
The macro 
.Nm LIST_FOREACH
traverses the list referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var .
.Pp
The macro 
.Nm LIST_FOREACH_SAFE
traverses the list referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var .
However, unlike
.Fn LIST_FOREACH
here it is permitted to both remove
.Fa var
as well as free it from within the loop safely without interfering with the
traversal.
.Pp
The macro 
.Nm LIST_INIT
initializes the list referenced by
.Fa head .
.Pp
The macro 
.Nm LIST_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the list.
.Pp
The macro 
.Nm LIST_INSERT_AFTER
inserts the new element
The macro `LIST_INSERT_BEFORE` inserts the new element after the element.

The macro `LIST_NEXT` returns the next element in the list, or NULL if this is the last.

The macro `LIST_REMOVE` removes the element from the list.

The macro `LIST_SWAP` swaps the contents of `head1` and `head2`.

### LIST EXAMPLE

```c
LIST_HEAD(listhead, entry) head =
    LIST_HEAD_INITIALIZER(head);
struct listhead *headp;/* List head. */
struct entry {
    ...
    LIST_ENTRY(entry) entries;/* List */
    ...
} *n1, *n2, *n3, *np, *np_temp;

LIST_INIT(&head); /* Initialize the list. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
LIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
LIST_INSERT_AFTER(n1, n2, entries);

n3 = malloc(sizeof(struct entry)); /* Insert before. */
LIST_INSERT_BEFORE(n2, n3, entries);
```
LIST_REMOVE(n2, entries); /* Deletion. */
free(n2);
/* Forward traversal. */
LIST_FOREACH(np, &head, entries)
np-> ... 

/* Safe forward traversal. */
LIST_FOREACH_SAFE(np, &head, entries, np_temp) {
np->do_stuff();
...
LIST_REMOVE(np, entries);
free(np);
}
while (!LIST_EMPTY(&head)) { /* List Deletion. */
n1 = LIST_FIRST(&head);
LIST_REMOVE(n1, entries);
free(n1);
}
n1 = LIST_FIRST(&head); /* Faster List Deletion. */
while (n1 != NULL) {
 n2 = LIST_NEXT(n1, entries);
free(n1);
n1 = n2;
}
LIST_INIT(&head);
.Ed
.Sh TAIL QUEUES
A tail queue is headed by a structure defined by the
.Nm TAILQ_HEAD
macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the tail queue.
New elements can be added to the tail queue after an existing element,
before an existing element, at the head of the tail queue,
or at the end of the tail queue.
A
.Fa TAILQ_HEAD
structure is declared as follows:
.Ed
.Pp
where

`HEADNAME` is the name of the structure to be defined, and

`TYPE` is the type of the elements to be linked into the tail queue.

A pointer to the head of the tail queue can later be declared as:

```c
struct HEADNAME *headp;
```

(The names `head` and `headp` are user selectable.)

The macro

```c
TAILQ_HEAD_INITIALIZER
```
evaluates to an initializer for the tail queue `head`.

The macro

```c
TAILQ_CONCAT
```
concatenates the tail queue headed by `head2` onto the end of the one headed by `head1` removing all entries from the former.

The macro

```c
TAILQ_EMPTY
```
evaluates to true if there are no items on the tail queue.

The macro

```c
TAILQ_ENTRY
```
declares a structure that connects the elements in the tail queue.

The macro

```c
TAILQ_FIRST
```
returns the first item on the tail queue or NULL if the tail queue is empty.

The macro

```c
TAILQ_FOREACH
```
traverses the tail queue referenced by `head` in the forward direction, assigning each element in turn to
The macro
.Tm TAILQ_FOREACH_REVERSE
traverses the tail queue referenced by
.Tm head
in the reverse direction, assigning each element in turn to
.Tm var.

The macros
.Tm TAILQ_FOREACH_SAFE
and
.Tm TAILQ_FOREACH_REVERSE_SAFE
traverse the list referenced by
.Tm head
in the forward or reverse direction respectively, assigning each element in turn to
.Tm var.
However, unlike their unsafe counterparts,
.Tm TAILQ_FOREACH
and
.Tm TAILQ_FOREACH_REVERSE
permit to both remove
.Tm var
as well as free it from within the loop safely without interfering with the traversal.

The macro
.Tm TAILQ_INIT
initializes the tail queue referenced by
.Tm head.

The macro
.Tm TAILQ_INSERT_HEAD
inserts the new element
.Tm elm
at the head of the tail queue.

The macro
.Tm TAILQ_INSERT_TAIL
inserts the new element
.Tm elm
at the end of the tail queue.
The macro `TAILQ_INSERT_AFTER` inserts the new element `elm` after the element `listelm`.

The macro `TAILQ_INSERT_BEFORE` inserts the new element `elm` before the element `listelm`.

The macro `TAILQ_LAST` returns the last item on the tail queue. If the tail queue is empty the return value is `NULL`.

The macro `TAILQ_NEXT` returns the next item on the tail queue, or NULL if this item is the last.

The macro `TAILQ_PREV` returns the previous item on the tail queue, or NULL if this item is the first.

The macro `TAILQ_REMOVE` removes the element `elm` from the tail queue.

The macro `TAILQ_SWAP` swaps the contents of `head1` and `head2`.

```
TAILQ_HEAD(tailhead, entry) head =
    TAILQ_HEAD_INITIALIZER(head);
struct tailhead *headp; /* Tail queue head. */
struct entry {
    ...
```
TAILQ_ENTRY(entry) entries; /* Tail queue. */
...
} *n1, *n2, *n3, *np;

TAILQ_INIT(&head); /* Initialize the queue. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
TAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry)); /* Insert at the tail. */
TAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
TAILQ_INSERT_AFTER(&head, n1, n2, entries);

n3 = malloc(sizeof(struct entry)); /* Insert before. */
TAILQ_INSERT_BEFORE(n2, n3, entries);

TAILQ_REMOVE(&head, n2, entries); /* Deletion. */
free(n2);
/* Forward traversal. */
TAILQ_FOREACH(np, &head, entries)
np-> ... /* Safe forward traversal. */
TAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
np->do_stuff();
...

TAILQ_REMOVE(&head, np, entries);
free(np);
}
/* Reverse traversal. */
TAILQ_FOREACH_REVERSE(np, &head, tailhead, entries)
np-> ... /* TailQ Deletion. */
while (!TAILQ_EMPTY(&head)) {
    n1 = TAILQ_FIRST(&head);
    TAILQ_REMOVE(&head, n1, entries);
    free(n1);
}
/* Faster TailQ Deletion. */
    n1 = TAILQ_FIRST(&head);
while (n1 != NULL) {
    n2 = TAILQ_NEXT(n1, entries);
    free(n1);
    n1 = n2;
}
    TAILQ_INIT(&head);
.}
SEE ALSO

Xr tree 3

HISTORY

The `queue` functions first appeared in 4.4.

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bunzip2.c
unizma.c
xmalloc_tlsf.c
libelf/*
libfdt/*
lz4/decompress.c
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

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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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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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-- Keir Fraser (on behalf of the Xen team)

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1.97 libsemanage 2.7 2build2

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package compute_test

import (  
    "context"
    compute "cloud.google.com/go/compute/apiv1"    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"
    
gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get   []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)  
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)  
    if err != nil {
        return nil, err
    }
    c := &licenseCodesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()
    return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}
```
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

func (c *licenseCodesRESTClient) Close() error {
    return nil
}

func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != ""
            baseUrl.Path = settings.Path
        return nil
    })
if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deffer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil,
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestIamPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions", 
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{} 

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" { 
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...) 
if e != nil {
    return nil, e
}
return resp, nil
package compute_test

import ("context"

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
        return
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
        return
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
        return
    }
    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
        return
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
        return
    }
    defer c.Close()
req := &computepb.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_= resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
=} resp
}

func ExampleLicensesClient_Insert() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (  
    "bytes"  
    "context"  
    "fmt"  
    "io/ioutil"  
    "math"  
    "net/http"  
    "net/url"  
    
    gax "github.com/googleapis/gax-go/v2"  
    "google.golang.org/api/googleapi"  
    "google.golang.org/api/iterator"  
    "google.golang.org/api/option"  
    "google.golang.org/api/option/internaloption"  
    httptransport "google.golang.org/api/transport/http"  
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"  
    "google.golang.org/grpc"  
    "google.golang.org/grpc/metadata"  
    "google.golang.org/protobuf/encoding/protojson"  
    "google.golang.org/protobuf/proto"  
    
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert []gax.CallOption
    List []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsRequest, ...gax.CallOption) (*computepb.TestIamPermissionsResponse, error)
}
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)  
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error)  
  return c.internalClient.Get(ctx, req, opts...)  
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error)  
  return c.internalClient.GetIamPolicy(ctx, req, opts...)  
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error)  
  return c.internalClient.Insert(ctx, req, opts...)  
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator  
  return c.internalClient.List(ctx, req, opts...)  
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error)  
  return c.internalClient.SetIamPolicy(ctx, req, opts...)  
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error)  
  return c.internalClient.TestIamPermissions(ctx, req, opts...)  
}
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)  
    if err != nil {
        return nil, err
    }
    c := &licensesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)  
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{

}
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/")
}
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{"gl-go", versionGo()}, keyval...)
  kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
  // Replace httpClient with nil to force cleanup.
c.httpClient = nil
  if err := c.operationClient.Close(); err != nil {
    return err
  }
  return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
  return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }

  params := url.Values{}
  if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
  }

  if err != nil {
    return nil, err
  }
  if response.StatusCode != http.StatusAccepted {
    return nil, errors.New(fmt.Sprintf("Failed to delete license: %v\n\nResponse Code: %v\nResponse Body: %v\nRequest URL: %v\nRequest Body: %v\nRequest Headers: %v\nRequest Method: %v\n\nRequest Details: %v\n", err, response.StatusCode, response.Body, baseUrl.String(), params.Encode(), response.Header, http.MethodDelete, requestDetails))
  }
  return &Operation{...}, nil
}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c: c.operationClient,
proto: resp,
project: req.GetProject(),
}
}
return op, nil

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        httpReq.Header = headers
        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()
        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        buf, err := ioutil.ReadAll(httpRsp.Body)
        if err != nil {
            return err
        }
        _, err := unm.Unmarshal(buf, &resp)
        if err != nil {
            return err
        }
        return nil
    })
    return resp, nil
}
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
    baseUrl.RawQuery = params.Encode()  
    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        return unm.Unmarshal(buf, resp)
    }, opts...)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...
gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{
        "requestId": req.GetRequestId()
    }
    baseURL.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
    params := url.Values{
        "requestId": req.GetRequestId()
    }
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))}
\}
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err := googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{}
  req = proto.Clone(req).(*computepb.ListLicensesRequest)
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  it.InternalFetch = func(pageSize int, pageToken string) ([][]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
      req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32 {
      req.MaxResults = proto.Uint32(math.MaxInt32)
    } else if pageSize != 0 {
      req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
      return nil, "", err
    }

    params := url.Values{}
    if req != nil && req.Filter != nil {
    }
    if req != nil && req.MaxResults != nil {
      params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
      params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
    }
    return it.Fetch(ctx, baseUrl, params, req)
  }
  return op, nil
}
if req != nil && req.ReturnPartialSuccess != nil {
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return items, nextPageToken, nil
    }
    return items, nextPageToken, err
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return items, nextPageToken, nil
    }
    return items, nextPageToken, err
}
if err != nil {
    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
ce := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    e := gax.Do(ctx, c.httpClient, httpReq, settings, headers, unm)
    if e != nil {
        return e
    }
    e = gax.ReadResponse(ctx, resp, e)
    return e
}, settings, headers, unm)
if e != nil {
    return nil, e
}
return resp, nil
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, opts...
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
// Build HTTP headers from client and context metadata.

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }
    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
    b := it.items
    it.items = nil
    return b
}

1.100 blang-semver 3.5.1+incompatible
1.100.1 Available under license:
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1.101 scowl 2017.08.24-1
1.101.1 Available under license:

cat <<EOF
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EOF

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about the suitability of this array for any purpose. It is provided
"as is" without express or implied warranty.
Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

The MWords package was explicitly placed in the public domain:

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You can verify the public domain status by contacting

Grady Ward
3449 Martha Ct.
Arcata, CA  95521-4884

grady@netcom.com
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English Wordlist With Frequency Classification" word list as it seems to be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.
Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

The 12Dicts package and Supplement is in the Public Domain.

The WordNet database, which was used in the creation of the Inflections database, is under the following copyright:

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The 40 level includes words from Alan's 3esl list found in version 4.0 of his 12dicts package. Like his other stuff the 3esl list is also in the public domain.

The 50 level includes Brian's frequency class 1, words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files form the Census report is a government document which I don't think can be copyrighted.

The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contain a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.

The 55 level includes words from Alan's 2of4brif list found in version 4.0 of his 12dicts package. Like his other stuff the 2of4brif is also in the public domain.

The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is in the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words from the YAWL package, and the 10,196 places list from the MWords package.

The ENABLE package, mainted by MiCooper <thegrendel@theriver.com>, is in the Public Domain:

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The 95 level includes the 354,984 single words, 256,772 compound words, 4,946 female names and the 3,897 male names, and 21,986 names from the MWords package, ABLE.LST from the ENABLE Supplement, and some additional words found in my part-of-speech database that were not found anywhere else.

Accent information was taken from UKACD.

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1.102 miekg-pkcs11 1.1.1

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1.103 mime-support 3.60ubuntu1

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1.104 resilience4j-micrometer 1.7.1

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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kdc/announce.c

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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* Project home: https://projects.eclipse.org/projects/ee4j.jaf

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1.122 zlib 1.2.11.dfsg-0ubuntu2.1

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 This is the pre-packaged Debian Linux version of the zlib compression
 library. It was packaged by Michael Alan Dorman <mdorman@debian.org>
 from sources originally retrieved from ftp.uu.net in the directory
 /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.
There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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Ty Coon, President of Vice

That's all there is to it!

This is a copy of CONTRIBUTORS file for the Pthreads-win32 library, downloaded from http://sourceware.org/cgi-bin/cvsweb.cgi/~checkout~/pthreads/CONTRIBUTORS?rev=1.32&cvsroot=pthreads-win32

Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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========

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The End

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1.130 libnl-3-dev 3.2.29-0ubuntu3

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1.136 client-golang 1.12.1
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

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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>
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DES core in libhcrypto
D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

Windows support

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1.144 idna 3.3

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1.145 libyaml 0.1.7

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b) Use a suitable shared library mechanism for linking with the 
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will operate properly with a modified version of the library, if 
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1.154 sprig 3.1.0

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1.156 utils 0.0.0-20211116205334-6203023598ed

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1.157 systemd-shim 10.3

1.157.1 Available under license :
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1.159 python 3.6.9
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History of the software
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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Mersenne Twister
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The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

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

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
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The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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------

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
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<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

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Mersenne Twister

The `random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

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

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

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Sockets
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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---------

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Original location:
https://github.com/majek/csiphash/

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djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strconv and dtoa
--------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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libmpdec
--------

The :mod:`_decimal` module is built using an included copy of the libmpdec library unless the build is configured ``--with-system-libmpdec``:

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1.161 landscape-client 18.01-0ubuntu3.6

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1.165 boost 1.65.1.0ubuntu1

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1.168 libglvnd 1.0.0-2ubuntu2.3

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1.169 libblockfile 1.14-1.1

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1.173 libiculx 60.2-3ubuntu3.2

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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 
SHAREDLIBFLAGS = -fPIC 
SHAREDLIBCXXFLAGS = -fPIC 
SHAREDLIBCPPFLAGS = -DfPIC 

## 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) $<
| sed "s/(\$\*\$)\o/.*/$\*\o $@ : /g" > $@; \\
[ -s $@ ] || rm -f $@’
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $<
| sed "s/(\$\*\$)\o/.*/$\*\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).$(SO).$(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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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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@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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D3DES (V5.09) -

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libfreedreno_layout = static_library(
    'freedreno_layout',
    [ 'fd6_layout.c', 'freedreno_layout.c', ],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
    build_by_default : false,
)

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1.198 argparse 1.2.1

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1.199 opus 1.1.2 1ubuntu1

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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 &lt;small_buffer_data&gt; 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-&gt;destructor / skb-&gt;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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
* *
*/

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Upstream-Contact: Zope Foundation and Contributors <zope-dev@zope.org>
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Files-Excluded: docs/_build/*

Files: *

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1.204 aws-sdk-go-v2 1.1.0

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{ }
    }
    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata

return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string
}

type DeleteLicenseOutput struct {

    // Date on which the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    } else {
        err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
        if err != nil {
            return err
        } else {
            if err = addSetLoggerMiddleware(stack, options); err != nil {
                return err
            }
            if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
                return err
            }
            if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
                return err
            }
            if err = addResolveEndpointMiddleware(stack, options); err != nil {
                return err
            }
        }
    }
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
    }
}
package licensemanager

import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)

// Lists received licenses.  
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {  
    if params == nil {  
        params = &ListReceivedLicensesInput{  
    }  

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,  
        addOperationListReceivedLicensesMiddlewares)  
    if err != nil {  
        return nil, err  
    }

    out := result.(*ListReceivedLicensesOutput)  
    out.ResultMetadata = metadata  
    return out, nil
}

type ListReceivedLicensesInput struct {  

    // Filters to scope the results. The following filters are supported:  
    //  
    // *  
    // ProductSKU  
    //  
    // * Status  
    //  
    // * KeyFingerprint  
}
type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
}
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = awsmiddleware.AddClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //

}
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = awsMiddleware.AddHTTPHeaderV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
  if params == nil {
    params = &CheckoutLicenseInput{ }
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckoutLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CheckoutLicenseInput struct {

  // Checkout type.
  //
  // This member is required.
  CheckoutType types.CheckoutType

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // License entitlements.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Key fingerprint identifying the license.
  //
  // This member is required.
  KeyFingerprint *string

  // Product SKU.
  //
  // This member is required.
  ProductSKU *string

  // License beneficiary.
  Beneficiary *string

  // Node ID.
func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:        region,
ServiceID:     ServiceID,
SigningName:   "license-manager",
OperationName: "CheckoutLicense",
}
}

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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, 
        addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string
type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU

//
// * KeyFingerprint
//
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
return err
}
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}
package licensemanager

import (  

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {  
  if params == nil {  
    params = &GetLicenseInput{  
  }  

  result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)  
  if err != nil {  
    return nil, err  
  }

  out := result.(*GetLicenseOutput)  
  out.ResultMetadata = metadata  
  return out, nil  
}

type GetLicenseInput struct {  
  // Amazon Resource Name (ARN) of the license.
  //  
  // This member is required.
  LicenseArn *string  

  // License version.
  Version *string  
}

type GetLicenseOutput struct {  
  // License details.
  License *types.License  

  // Metadata pertaining to the operation's result.
}
func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSVerifierV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
  }
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, addOperationCheckInLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
    // // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }

    result := &CheckInLicenseInput{
        LicenseConsumptionToken: LicenseConsumptionToken,
        Beneficiary: Beneficiary,
    }

    result, err = op.CheckInLicense(stack, result)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

func callCheckInLicense() error {
    // Call the service's CheckInLicense operation.
    result, err := op.CheckInLicense(stack, result)
    if err != nil {
        return err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}
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Found in path(s):
* /opt/cola/permits/1166365833_1621397079.41/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/LICENSE.rst
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1166365833_1621397079.41/0/sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/setup.cfg

1.207 libpcap-dev 1.8.1-6ubuntu1.18.04.2

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1.209 apparmor 2.12 4ubuntu5.1
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Version 3, 29 June 2007

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1.212 protobuf 1.26.0

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1.215 libpolkit-backend 0.105-20ubuntu0.18.04.6

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1.218 tar 1.29b 2ubuntu0.2

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src/clock.c
src/cmos.h
src/coreboot.c
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src/ioport.h
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--

1.229 bluez 5.48-0ubuntu3.8
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1.235 libavahi-common-data 0.7-3.1ubuntu1.3

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AES in libhcrypto

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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>
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1.244 ssl-cert 1.0.39

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1.245 go-playground-locales 0.14.0
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1.247 libqt5quickwidgets5 5.9.5-0ubuntu1.1

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/

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Theodore Ts'o
23-June-2007

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That's all there is to it!
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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

From the original distribution:
# 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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Gadi Oxman, August 1995

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1.257 node-jquery 3.2.1-1

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1.258 initramfs-tools 0.130ubuntu3.13

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Version 3, 29 June 2007

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AUTOCONF CONFIGURE SCRIPT EXCEPTION
Version 3.0, 18 August 2009

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    'freedreno_layout',
    ['fd6_layout.c',
     'freedreno_layout.c'],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no_override_init_args],
cpp_args : [cpp_vis_args],
dependencies : idep_nir_headers,
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Installation Instructions

*************************


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Basic Installation

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

Briefly, the shell commands `./configure; make; make install` should configure, build, and install this package. The following more-detailed instructions are generic; see the `README` file for instructions specific to this package. Some packages provide this `INSTALL` file but do not implement all of the features documented below. The lack of an optional feature in a given package is not necessarily a bug. More recommendations for GNU packages can be found in *note Makefile Conventions: (standards)Makefile Conventions.

The `configure` shell script attempts to guess correct values for various system-dependent variables used during compilation. It uses those values to create a `Makefile` in each directory of the package.
It may also create one or more `.h' files containing system-dependent definitions. Finally, it creates a shell script `config.status' that you can run in the future to recreate the current configuration, and a file `config.log' containing compiler output (useful mainly for debugging `configure').

It can also use an optional file (typically called `config.cache' and enabled with `--cache-file=config.cache' or simply `-C') that saves the results of its tests to speed up reconfiguring. Caching is disabled by default to prevent problems with accidental use of stale cache files.

If you need to do unusual things to compile the package, please try to figure out how `configure' could check whether to do them, and mail diffs or instructions to the address given in the `README' so they can be considered for the next release. If you are using the cache, and at some point `config.cache' contains results you don't want to keep, you may remove or edit it.

The file `configure.ac' (or `configure.in') is used to create `configure' by a program called `autoconf'. You need `configure.ac' if you want to change it or regenerate `configure' using a newer version of `autoconf'.

The simplest way to compile this package is:

1. `cd' to the directory containing the package's source code and type `./configure' to configure the package for your system.

   Running `configure' might take a while. While running, it prints some messages telling which features it is checking for.

2. Type `make' to compile the package.

3. Optionally, type `make check' to run any self-tests that come with the package, generally using the just-built uninstalled binaries.

4. Type `make install' to install the programs and any data files and documentation. When installing into a prefix owned by root, it is recommended that the package be configured and built as a regular user, and only the `make install' phase executed with root privileges.

5. Optionally, type `make installcheck' to repeat any self-tests, but this time using the binaries in their final installed location. This target does not install anything. Running this target as a regular user, particularly if the prior `make install' required root privileges, verifies that the installation completed...
6. You can remove the program binaries and object files from the source code directory by typing `make clean'. To also remove the files that `configure' created (so you can compile the package for a different kind of computer), type `make distclean'. There is also a `make maintainer-clean' target, but that is intended mainly for the package's developers. If you use it, you may have to get all sorts of other programs in order to regenerate files that came with the distribution.

7. Often, you can also type `make uninstall' to remove the installed files again. In practice, not all packages have tested that uninstallation works correctly, even though it is required by the GNU Coding Standards.

8. Some packages, particularly those that use Automake, provide `make distcheck', which can by used by developers to test that all other targets like `make install' and `make uninstall' work correctly. This target is generally not run by end users.

Compilers and Options
=====================

Some systems require unusual options for compilation or linking that the `configure' script does not know about. Run `./configure --help' for details on some of the pertinent environment variables.

You can give `configure' initial values for configuration parameters by setting variables in the command line or in the environment. Here is an example:

```
./configure CC=c99 CFLAGS=-g LIBS=-lposix
```

*Note Defining Variables::, for more details.

Compiling For Multiple Architectures
====================================

You can compile the package for more than one kind of computer at the same time, by placing the object files for each architecture in their own directory. To do this, you can use GNU `make'. `cd' to the directory where you want the object files and executables to go and run the `configure' script. `configure' automatically checks for the source code in the directory that `configure' is in and in `..'. This is known as a "VPATH" build.

With a non-GNU `make', it is safer to compile the package for one
architecture at a time in the source code directory. After you have installed the package for one architecture, use `make distclean' before reconfiguring for another architecture.

On MacOS X 10.5 and later systems, you can create libraries and executables that work on multiple system types--known as "fat" or "universal" binaries--by specifying multiple `-arch' options to the compiler but only a single `-arch' option to the preprocessor. Like this:

```
./configure CC="gcc -arch i386 -arch x86_64 -arch ppc -arch ppc64" \  
   CXX="g++ -arch i386 -arch x86_64 -arch ppc -arch ppc64" \  
   CPP="gcc -E" CXXCPP="g++ -E"
```

This is not guaranteed to produce working output in all cases, you may have to build one architecture at a time and combine the results using the `lipo' tool if you have problems.

Installation Names
==================

By default, `make install' installs the package's commands under `/usr/local/bin', include files under `/usr/local/include', etc. You can specify an installation prefix other than `/usr/local' by giving `configure' the option `--prefix=PREFIX', where PREFIX must be an absolute file name.

You can specify separate installation prefixes for architecture-specific files and architecture-independent files. If you pass the option `--exec-prefix=PREFIX' to `configure', the package uses PREFIX as the prefix for installing programs and libraries. Documentation and other data files still use the regular prefix.

In addition, if you use an unusual directory layout you can give options like `--bindir=DIR' to specify different values for particular kinds of files. Run `configure --help' for a list of the directories you can set and what kinds of files go in them. In general, the default for these options is expressed in terms of `${prefix}', so that specifying just `--prefix=' will affect all of the other directory specifications that were not explicitly provided.

The most portable way to affect installation locations is to pass the correct locations to `configure'; however, many packages provide one or both of the following shortcuts of passing variable assignments to the `make install' command line to change installation locations without having to reconfigure or recompile.

The first method involves providing an override variable for each
affected directory. For example, `make install prefix=/alternate/directory' will choose an alternate location for all directory configuration variables that were expressed in terms of `${prefix}'. Any directories that were specified during `configure', but not in terms of `${prefix}', must each be overridden at install time for the entire installation to be relocated. The approach of makefile variable overrides for each directory variable is required by the GNU Coding Standards, and ideally causes no recompilation. However, some platforms have known limitations with the semantics of shared libraries that end up requiring recompilation when using this method, particularly noticeable in packages that use GNU Libtool.

The second method involves providing the `DESTDIR' variable. For example, `make install DESTDIR=/alternate/directory' will prepend `/alternate/directory' before all installation names. The approach of `DESTDIR' overrides is not required by the GNU Coding Standards, and does not work on platforms that have drive letters. On the other hand, it does better at avoiding recompilation issues, and works well even when some directory options were not specified in terms of `${prefix}' at `configure' time.

Optional Features
=================

If the package supports it, you can cause programs to be installed with an extra prefix or suffix on their names by giving `configure' the option `--program-prefix=PREFIX' or `--program-suffix=SUFFIX'.

Some packages pay attention to `--enable-FEATURE' options to `configure', where FEATURE indicates an optional part of the package. They may also pay attention to `--with-PACKAGE' options, where PACKAGE is something like `gnu-as' or `x' (for the X Window System). The `README' should mention any `--enable-' and `--with-' options that the package recognizes.

For packages that use the X Window System, `configure' can usually find the X include and library files automatically, but if it doesn't, you can use the `configure' options `--x-includes=DIR' and `--x-libraries=DIR' to specify their locations.

Some packages offer the ability to configure how verbose the execution of `make' will be. For these packages, running `./configure --enable-silent-rules' sets the default to minimal output, which can be overridden with `make V=1'; while running `./configure --disable-silent-rules' sets the default to verbose, which can be overridden with `make V=0'.

Particular systems
On HP-UX, the default C compiler is not ANSI C compatible. If GNU CC is not installed, it is recommended to use the following options in order to use an ANSI C compiler:

```
./configure CC="cc -Ae -D_XOPEN_SOURCE=500"
```

and if that doesn't work, install pre-built binaries of GCC for HP-UX.

HP-UX `make' updates targets which have the same time stamps as their prerequisites, which makes it generally unusable when shipped generated files such as `configure' are involved. Use GNU `make' instead.

On OSF/1 a.k.a. Tru64, some versions of the default C compiler cannot parse its `<wchar.h>' header file. The option `-nodtk' can be used as a workaround. If GNU CC is not installed, it is therefore recommended to try

```
./configure CC="cc"
```

and if that doesn't work, try

```
./configure CC="cc -nodtk"
```

On Solaris, don't put `/usr/ucb' early in your `PATH'. This directory contains several dysfunctional programs; working variants of these programs are available in `/usr/bin'. So, if you need `/usr/ucb' in your `PATH', put it_after_ `/usr/bin'.

On Haiku, software installed for all users goes in `/boot/common', not `/usr/local'. It is recommended to use the following options:

```
./configure --prefix=/boot/common
```

Specifying the System Type

There may be some features `configure' cannot figure out automatically, but needs to determine by the type of machine the package will run on. Usually, assuming the package is built to be run on the _same_ architectures, `configure' can figure that out, but if it prints a message saying it cannot guess the machine type, give it the `--build=TYPE' option. TYPE can either be a short name for the system type, such as `sun4', or a canonical name which has the form:

CPU-COMPANY-SYSTEM
where SYSTEM can have one of these forms:

OS
KERNEL-OS

See the file `config.sub' for the possible values of each field. If `config.sub' isn't included in this package, then this package doesn't need to know the machine type.

If you are building compiler tools for cross-compiling, you should use the option `--target=TYPE' to select the type of system they will produce code for.

If you want to use a cross compiler, that generates code for a platform different from the build platform, you should specify the "host" platform (i.e., that on which the generated programs will eventually be run) with `--host=TYPE'.

Sharing Defaults
================

If you want to set default values for `configure' scripts to share, you can create a site shell script called `config.site' that gives default values for variables like `CC', `cache_file', and `prefix'.
`configure' looks for `PREFIX/share/config.site' if it exists, then `PREFIX/etc/config.site' if it exists. Or, you can set the `CONFIG_SITE' environment variable to the location of the site script.
A warning: not all `configure' scripts look for a site script.

Defining Variables
==================

Variables not defined in a site shell script can be set in the environment passed to `configure'. However, some packages may run configure again during the build, and the customized values of these variables may be lost. In order to avoid this problem, you should set them in the `configure' command line, using `VAR=value'. For example:

```
./configure CC=/usr/local2/bin/gcc
```

causes the specified `gcc' to be used as the C compiler (unless it is overridden in the site shell script).

Unfortunately, this technique does not work for `CONFIG_SHELL' due to an Autoconf bug. Until the bug is fixed you can use this workaround:

```
CONFIG_SHELL=/bin/bash /bin/bash ./configure CONFIG_SHELL=/bin/bash
```
`configure' Invocation

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

`configure' recognizes the following options to control how it operates.

`--help'
`-h'
Print a summary of all of the options to `configure', and exit.

`--help=short'
`--help=recursive'
Print a summary of the options unique to this package's
`configure', and exit. The `short' variant lists options used
only in the top level, while the `recursive' variant lists options
also present in any nested packages.

`--version'
`-V'
Print the version of Autoconf used to generate the `configure'
script, and exit.

`--cache-file=FILE'
Enable the cache: use and save the results of the tests in FILE,
traditionally `config.cache'. FILE defaults to `/dev/null' to
disable caching.

`--config-cache'
`-C'
Alias for `--cache-file=config.cache'.

`--quiet'
`--silent'
`-q'
Do not print messages saying which checks are being made. To
suppress all normal output, redirect it to `/dev/null' (any error
messages will still be shown).

`--srcdir=DIR'
Look for the package's source code in directory DIR. Usually
`configure' can determine that directory automatically.

`--prefix=DIR'
Use DIR as the installation prefix. *note Installation Names::
for more details, including other options available for fine-tuning
the installation locations.
`--no-create`
`-n`

Run the configure checks, but stop before creating any output files.

`configure` also accepts some other, not widely useful, options. Run `configure --help` for more details.

Found in path(s):
* /opt/cola/permits/1264085853_1643745856.14/0/xcb-util-keysym-0.4-0-orig-tar-bz2/xcb-util-keysym-0.4.0/INSTALL

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```bash
# ===========================================================================
#           http://autoconf-archive.cryp.to/ax_compare_version.html
# ===========================================================================
#
# SYNOPSIS
#
# AX_COMPARE_VERSION(VERSION_A, OP, VERSION_B, [ACTION-IF-TRUE], [ACTION-IF-FALSE])
#
# DESCRIPTION
#
# This macro compares two version strings. Due to the various number of
# minor-version numbers that can exist, and the fact that string
# comparisons are not compatible with numeric comparisons, this is not
# necessarily trivial to do in a autoconf script. This macro makes doing
# these comparisons easy.
#
# The six basic comparisons are available, as well as checking equality
# limited to a certain number of minor-version levels.
#
# The operator OP determines what type of comparison to do, and can be one
# of:
#
# eq  - equal (test A == B)
# ne  - not equal (test A != B)
# le  - less than or equal (test A <= B)
# ge  - greater than or equal (test A >= B)
# lt  - less than (test A < B)
# gt  - greater than (test A > B)
#
# Additionally, the eq and ne operator can have a number after it to limit
# the test to that number of minor versions.
#
# eq0  - equal up to the length of the shorter version
# ne0  - not equal up to the length of the shorter version
# eqN  - equal up to N sub-version levels
```
# neN - not equal up to N sub-version levels
#
# When the condition is true, shell commands ACTION-IF-TRUE are run,
# otherwise shell commands ACTION-IF-FALSE are run. The environment
# variable 'ax_compare_version' is always set to either 'true' or 'false'
# as well.
#
# Examples:
#
#    AX_COMPARE_VERSION([3.15.7],[lt],[3.15.8])
#    AX_COMPARE_VERSION([3.15],[lt],[3.15.8])
#
# would both be true.
#
#    AX_COMPARE_VERSION([3.15.7],[eq],[3.15.8])
#    AX_COMPARE_VERSION([3.15],[gt],[3.15.8])
#
# would both be false.
#
#    AX_COMPARE_VERSION([3.15.7],[eq2],[3.15.8])
#
# would be true because it is only comparing two minor versions.
#
#    AX_COMPARE_VERSION([3.15.7],[eq0],[3.15])
#
# would be true because it is only comparing the lesser number of minor
# versions of the two values.
#
# Note: The characters that separate the version numbers do not matter. An
# empty string is the same as version 0. OP is evaluated by autoconf, not
# configure, so must be a string, not a variable.
#
# The author would like to acknowledge Guido Draheim whose advice about
# the m4_case and m4_ifvaln functions make this macro only include the
# portions necessary to perform the specific comparison specified by the
# OP argument in the final configure script.
#
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dnl #########################################################################
AC_DEFUN([AX_COMPARE_VERSION], [
AC_PROG_AWK
# Used to indicate true or false condition
ax_compare_version=false

# Convert the two version strings to be compared into a format that
# allows a simple string comparison. The end result is that a version
# string of the form 1.12.5-r617 will be converted to the form
# 0001001200050617. In other words, each number is zero padded to four
# digits, and non digits are removed.

AS_VAR_PUSHDEF([A],[ax_compare_version_A])
A=`echo "$1" | sed -e 's/\[[0-9]\]*/Z\1Z/g' -e 's/Z([0-9]Z\1Z)/Z0\1Z/g' -e 's/Z([0-9]Z[0-9])Z/Z01Z/g' -e 's/Z([0-9]Z[0-9][0-9])Z/Z01Z/g' -e 's/[^0-9]//g`  

AS_VAR_PUSHDEF([B],[ax_compare_version_B])
B=`echo "$3" | sed -e 's/\[[0-9]\]*/Z\1Z/g' -e 's/Z([0-9]Z\1Z)/Z0\1Z/g' -e 's/Z([0-9]Z[0-9])Z/Z01Z/g' -e 's/Z([0-9]Z[0-9][0-9])Z/Z01Z/g' -e 's/[^0-9]//g`  

dnl # In the case of le, ge, lt, and gt, the strings are sorted as necessary
dnl # then the first line is used to determine if the condition is true.
dnl # The sed right after the echo is to remove any indented white space.
m4_case(m4_tolower($2),
  [lt],
  ax_compare_version=`echo "x$A
x$B" | sed 's/[^*// | sort -r | sed "s/x$A/false;/s/x$B/true;/1q"`
  ).
  [gt],
  ax_compare_version=`echo "x$A
x$B" | sed 's/[^*// | sort | sed "s/x$A/false;/s/x$B/true;/1q"`
  ).
  [le],
  ax_compare_version=`echo "x$A
x$B" | sed 's/[^*// | sort | sed "s/x$A/true;/s/x$B/false;/1q"`
  ).
  [ge],
  ax_compare_version=`echo "x$A
x$B" | sed 's/[^*// | sort -r | sed "s/x$A/true;/s/x$B/false;/1q"`
  ).
dnl Split the operator from the subversion count if present.
m4_bmatch(m4_substr($2,2),
  [0],
  # A count of zero means use the length of the shorter version.
  # Determine the number of characters in A and B.
ax_compare_version_len_A=\`echo "A" | $AWK \`{print(length)}\`
ax_compare_version_len_B=\`echo "B" | $AWK \`{print(length)}\`

# Set A to no more than B's length and B to no more than A's length.
A=\`echo "A" | sed \`s/\(.*\)\(.*\)/\1/\`
B=\`echo "B" | sed \`s/\(.*\)\(.*\)/\1/\`

# A count greater than zero means use only that many subversions
A=\`echo "$A" | sed \`s/\[[0-9]\\{4\\}\]\\{m4_substr($2,2)\\}\)/\1/\`
B=\`echo "$B" | sed \`s/\[[0-9]\\{4\\}\]\\{m4_substr($2,2)\\}\)/\1/\`

# Pad zeros at end of numbers to make same length.
ax_compare_version_tmp_A="$A`echo $B | sed 's/./0/g'`"
B="$B`echo $A | sed 's/./0/g'`"
A="ax_compare_version_tmp_A"

# Check for equality or inequality as necessary.
m4_case(m4_tolower(m4_substr($2,0,2)),
  [eq],
  test "x$A" = "x$B" && ax_compare_version=true
  ],
  [ne],
  test "x$A" != "x$B" && ax_compare_version=true
  ],
  AC_WARNING([illegal OP parameter: $2])
)
)

AS_VAR_POPDEF([A])
AS_VAR_POPDEF([B])

dnl # Execute ACTION-IF-TRUE / ACTION-IF-FALSE.
if test "$ax_compare_version" = "true" ; then
  m4_ifvaln([$4],$4,[:])
m4_ifvaln([$5],[else $5])
fi
)dnl AX_COMPARE_VERSION

Found in path(s):
* /opt/cola/permits/1264085853_1643745856.14/0/xcb-util-keysyms-0-4-0-orig-tar-bz2/xcb-util-keysyms-0.4.0/m4/ax_compare_version.m4
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 */

Found in path(s):
* /opt/cola/permits/1264085853_1643745856.14/0 xcb-util-keysyms-0.4.0/keysyms/keysyms.c

1.264 grep 3.1 2build1
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1.265 go-units 0.4.0
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Michael Campanella (campanella@stevms.enet.dec.com)
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Gocheck - A rich testing framework for Go

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; 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>
%rr = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %rr
}
; 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*) {


BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}

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; 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

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; 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" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than pointer in a store instruction is hoisted.
; 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:  %2 = inttoptr i32 %[[C2]], 4
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %4 = inttoptr i32 %[[C2]], 31
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
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*
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
}

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 805874816 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
ret void
}
%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 -passes='attributor' -aa-pipeline='basic-aa' -attributor-disable=false -attributor-max-iterations-verify -attributor-max-iterations=2 < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

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>* %arg1) #0 {
    ; CHECK-LABEL: define [[[^@]+]]@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
    ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) 
       [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) 
       [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
    ; CHECK-NEXT: store <8 x i64> %tmp, <8 x i64>* %arg
    ; CHECK-NEXT: 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>* nocapture writeonly [[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_prefer512_call_avx512_legal512_prefer512(<8 x 
       i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP3]], <8 x i64>* 
       noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP2]])
    ; 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>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
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>* nocapture writeonly [[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_legal512_prefer256(<8 x i64>* %arg)
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; 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>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
 ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
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>* nocapture writeonly [[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_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[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_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
}

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; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg) #0 {
;
; CHECK-LABEL: define [[[^@]+]]@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; 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>* nocapture writeonly [[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_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[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_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_prefer512(<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>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]]) 
; CHECK-NEXT: bb: 
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32 
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32 
; 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>* nocapture writeonly [[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>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 { 
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256 
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64)
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
; CHECK-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:  ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
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>* nocapture writeonly [[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 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #4 {
; CHECK-LABEL:  define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME:  (<8 x i64>* noalias nocapture writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nullnull align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:  store <8 x i64> %tmp, <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>* noalias nocapture nofree nullnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; 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>* nocapture writeonly [[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* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 32
  ; 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
}

; 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_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

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 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  
  VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  
  VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  VEC512-LABEL: 'zext256'
  
  VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  
  VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  
  VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
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 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

define void @zext512() "min-legal-vector-width"="512" {
    ; 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>
    ret void
}

define void @zext512() "min-legal-vector-width"="512" {
    ; VEC512-LABEL: 'zext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    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 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; VEC512-LABEL: 'sext256'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-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 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; SKX256-LABEL: 'sext512'
    ; SKX256-NEXT: Cost Model: Found an estimated cost of 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
    ;
    ; VEC512-LABEL: 'sext512'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}
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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+vpadd
; 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 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: vpadd 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 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 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, 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,

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define void @avg_v64i8_512(<64 x i8> %a, <64 x i8> %b) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: avg_v64i8_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm0
  ; CHECK-NEXT:  vpavgb (%rdi), %zmm0, %zmm0
  ; CHECK-NEXT:  vmovdqu64 %zmm0, (%rax)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq

  %1 = load <64 x i8>, <64 x i8>* %a
  %2 = load <64 x i8>, <64 x i8>* %b
  %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, %4
  %6 = add nuw nsw <64 x i32> %5
  %7 = lshr <64 x i32> %6, <i32 1>
  %8 = trunc <64 x i32> %7 to <64 x i8>
  store <64 x i8> %8, <64 x i8>* undef, align 4
  ret void
}

define void @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:  vpmaddwd 32(%rsi), %ymm0
  ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm1
  ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0
  ; CHECK-NEXT:  vpmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq

  %A = load <32 x i16>, <32 x i16>* %APtr
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vpmaddwd (%rsi), %zmm0, %zmm0
; 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 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:  vzeroupper
; CHECK-NEXT:  retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%A = sext <32 x i16> %A to <32 x i32>
%B = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %A, %B
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm3, %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm3, %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm3, %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm3, %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm3, %ymm5
; CHECK-NEXT: addq $32, %rcx
entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 
[ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> 
[ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> undef, <32 x i32> unde
define 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: ; CHECK-NEXT: %bb.2: # %middle.block
    ; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT: vextracti64x4 %s1, %zmm0, %ymm1
    ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT: vextracti128 %s1, %ymm0, %xmm1
    ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
    ; 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: ; CHECK-NEXT: %bb.3: # %exit.block
    ; CHECK-NEXT: ; CHECK-NEXT: %bb.4: # %entry
    ; CHECK-NEXT: ; CHECK-NEXT: .LBB9_5: # %vector.body
    ; CHECK-NEXT: ; CHECK-NEXT: %bb.6: # %middle.block
    ; CHECK-NEXT: ; CHECK-NEXT: %bb.7: # %exit.block
}

; 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
%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>
%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>
%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>
%bin.rdx32 = add <32 x i32> %bin.rdx1, %rdx.shuf
%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>
%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>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:    # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %ymm1
; CHECK-NEXT: vpaddd %ymm1, %ymm1, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm0, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; 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>
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

    middle.block:
    %.lcssa = phi <16 x i32> [ %10, %vector.body ]
    %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <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, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

    define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
        ; CHECK-LABEL: sad_16i8_512:
        ; CHECK:       # %bb.0: # %entry
        ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
        ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
        ; CHECK-NEXT:  .p2align 4, 0x90
        ; CHECK-NEXT:  .LBB11_1: # %vector.body
        ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
        ; CHECK-NEXT:  .LBB11_1: # %vector.body
        ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
        ; CHECK-NEXT:  .LBB11_1: # %vector.body
        ; CHECK-NEXT:    vextracti64x4 %xmm1 = %xmm0[2,3,0,1]
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>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef> undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 undef, undef, i32 unde
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovmd %k1, %ymm0
; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovmd %k0, %ymm1
; CHECK-NEXT: vcvtq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovmd %k0, %zmm0
; CHECK-NEXT: vcvtq2ps %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 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: vmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovmd %k1, %ymm0
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm1
; CHECK-NEXT: vcvtq2pd %ymm0, %xmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovmd %k0, %ymm2
; CHECK-NEXT: vcvtq2pd %xmm0, %ymm3
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {  
   ; CHECK-LABEL: sbto16f64_512:  
   ; CHECK:       # %bb.0:  
   ; CHECK-NEXT: vpmovw2m %ymm0, %k0  
   ; CHECK-NEXT: vpmovm2d %k0, %zmm0  
   ; CHECK-NEXT: vcvt dq2pd %ymm0, %zmm1  
   ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0  
   ; CHECK-NEXT: vcvt dq2pd %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 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: vpmovm2d %k0, %zmm0  
   ; CHECK-NEXT: vcvt dq2pd %ymm0, %zmm1  
   ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0  
   ; CHECK-NEXT: vcvt dq2pd %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 void @sbt256f32_512(<16 x i16> %a, <16 x float>* %res) {  
   ; CHECK-LABEL: sbt256f32_512:  
   ; CHECK:       # %bb.0:  
   ; CHECK-NEXT: vpmovw2m %ymm0, %k0  
   ; CHECK-NEXT: vpmovm2d %k0, %zmm0  
   ; CHECK-NEXT: vcvt dq2pd %ymm0, %zmm1  
   ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0  
   ; CHECK-NEXT: vcvt dq2pd %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  
}
define void @ubto1664_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto1664_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 void @ubto1664_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto1664_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:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vextracti128 $1, %ymm3, %xmm3
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm3, %ymm3
    ; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm3, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm3, %xmm3
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtqd2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
; CHECK-NEXT: vpsld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpsld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqqu16 %ymm0, %ymm0 {%k1} [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqqu16 %ymm0, %ymm0 {%k1} [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
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 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), %ymm0
  ; CHECK-AVX512-NEXT:  vmovdqa 32(%rsi), %ymm1
  ; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13 ],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
  ; CHECK-AVX512-NEXT:  retq
  %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
; CHECK-AVX512-NEXT:  vpunpckhbw {.*#+} ymm5 =
                   ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
; CHECK-AVX512-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT:  vmovdqa {.*#+} ymm5 =
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:  vpunpckhbw {.*#+} ymm3 =
                   ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
; CHECK-AVX512-NEXT:  vpunpckhbw {.*#+} ymm1 =
                   ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[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],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
; CHECK-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:  vpunpckhbw {.*#+} ymm2 =
                   ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-AVX512-NEXT:  vpunpckhbw {.*#+} 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:  vmovdqa %ymm0, 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:  retq
;
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; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
  ymm3[8], ymm0[8], ymm3[9], ymm0[9], ymm3[10], ymm0[10], ymm3[11], ymm0[11], ymm3[12], ymm0[12], ymm3[13]
  , ymm0[13], ymm3[14], ymm0[14], ymm3[15], ymm0[15], ymm3[24], ymm0[24], ymm3[25], ymm0[25], ymm3[26], ymm
  0[26], ymm3[27], ymm0[27], ymm3[28], ymm0[28], ymm3[29], ymm0[29], ymm3[30], ymm0[30], ymm3[31], ymm0[3
  1]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
  ymm1[8], ymm0[8], ymm1[9], ymm0[9], ymm1[10], ymm0[10], ymm1[11], ymm0[11], ymm1[12], ymm0[12], ymm1[13]
  , ymm0[13], ymm1[14], ymm0[14], ymm1[15], ymm0[15], ymm1[24], ymm0[24], ymm1[25], ymm0[25], ymm1[26], ymm
  0[26], ymm1[27], ymm0[27], ymm1[28], ymm0[28], ymm1[29], ymm0[29], ymm1[30], ymm0[30], ymm1[31], ymm0[3
  1]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
  ymm3[0], ymm0[0], ymm3[1], ymm0[1], ymm3[2], ymm0[2], ymm3[3], ymm0[3], ymm3[4], ymm0[4], ymm3[5], ymm0
  [5], ymm3[6], ymm0[6], ymm3[7], ymm0[7], ymm3[16], ymm0[16], ymm3[17], ymm0[17], ymm3[18], ymm0[18], ymm3[1
  9], ymm0[19], ymm3[20], ymm0[20], ymm3[21], ymm0[21], ymm3[22], ymm0[22], ymm3[23], ymm0[23]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm1 =
  ymm1[0], ymm0[0], ymm1[1], ymm0[1], ymm1[2], ymm0[2], ymm1[3], ymm0[3], ymm1[4], ymm0[4], ymm1[5], ymm0
  [5], ymm1[6], ymm0[6], ymm1[7], ymm0[7], ymm1[16], ymm0[16], ymm1[17], ymm0[17], ymm1[18], ymm0[18], ymm1[1
  9], ymm0[19], ymm1[20], ymm0[20], ymm1[21], ymm0[21], ymm1[22], ymm0[22], ymm1[23], ymm0[23]
; CHECK-VBMI-NEXT:  vpnullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdx), %ymm3
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdx), %ymm4
; 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
define 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],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
  zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0
  [26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
  mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],
  zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
  mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-AVX512-NEXT: vpunpckhbw [{].*+}] zmm3 =
  zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,
  24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,
  48,49,49,50,50,51,51,52,52,53,53,54,54,55,55,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT: vmovdqa64 [{].*+}] zmm3 =
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT: vpunpckdbw [{].*+}] zmm1 =
  zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],
  zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],
  zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0
  [32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
  zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1
  [51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
; CHECK-AVX512-NEXT: vpunpckdbw [{].*+}] zmm0 =
  zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,3
  4,35,35,36,36,36,36,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55
; 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],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
  zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26]
  [26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
  mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],
  zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
  mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
}
[26], zmm1[27], zmm0[27], zmm1[28], zmm0[28], zmm1[29], zmm0[29], zmm1[30], zmm0[30], zmm1[31], zmm0[31], zmm1[32], zmm0[32], zmm1[33], zmm0[33], zmm1[34], zmm0[34], zmm1[35], zmm0[35], zmm1[36], zmm0[36], zmm1[37], zmm0[37], zmm1[38], zmm0[38], zmm1[39], zmm0[39], zmm1[40], zmm0[40], zmm1[41], zmm0[41], zmm1[42], zmm0[42], zmm1[43], zmm0[43], zmm1[44], zmm0[44], zmm1[45], zmm0[45], zmm1[46], zmm0[46], zmm1[47], zmm0[47], zmm1[48], zmm0[48], zmm1[49], zmm0[49], zmm1[50], zmm0[50], zmm1[51], zmm0[51], zmm1[52], zmm0[52], zmm1[53], zmm0[53], zmm1[54], zmm0[54], zmm1[55], zmm0[55], zmm1[56], zmm0[56], zmm1[57], zmm0[57], zmm1[58], zmm0[58], zmm1[59], zmm0[59], zmm1[60], zmm0[60], zmm1[61], zmm0[61], zmm1[62], zmm0[62], zmm1[63], zmm0[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
  2,42,43,43,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]

; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2

; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
zmm1[0], zmm0[0], zmm1[1], zmm0[1], zmm1[2], zmm0[2], zmm1[3], zmm0[3], zmm1[4], zmm0[4], zmm1[5], zmm0[5],
  zmm1[6], zmm0[6], zmm1[7], zmm0[7], zmm1[8], zmm0[8], zmm1[17], zmm0[17], zmm1[18], zmm0[18], zmm1[19],
  zmm0[19], zmm1[20], zmm0[20], zmm1[21], zmm0[21], zmm1[22], zmm0[22], zmm1[23], zmm0[23], zmm1[32], zmm0
  [32], zmm1[33], zmm0[33], zmm1[34], zmm0[34], zmm1[35], zmm0[35], zmm1[36], zmm0[36], zmm1[37], zmm0[37],
  zmm1[38], zmm0[38], zmm1[39], zmm0[39], zmm1[48], zmm0[48], zmm1[49], zmm0[49], zmm1[50], zmm0[50], zmm1
  [51], zmm0[51], zmm1[52], zmm0[52], zmm1[53], zmm0[53], zmm1[54], zmm0[54], zmm1[55], zmm0[55], zmm1[56],
  zmm0[56], zmm1[57], zmm0[57], zmm1[58], zmm0[58], zmm1[59], zmm0[59], zmm1[60], zmm0[60], zmm1[61], zmm0
  [61], zmm1[62], zmm0[62], zmm1[63], zmm0[63]

; 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, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126]

; CHECK-VBMI-NEXT:  vmovdqa64 %zmm1, (%rdx)

; CHECK-VBMI-NEXT:  vzeroupper

; CHECK-VBMI-NEXT:  retq

; CHECK-VBMI-NEXT:  ret void

; CHECK-VBMI-NEXT:  

; 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:  vpbldendmd (%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: vpmovq %ymm0, %xmm0
    ; CHECK-NEXT: vpmovqd %ymm1, %xmm1
    ; CHECK-NEXT: vpmovqd %ymm2, %xmm2
    ; CHECK-NEXT: vpmovqd %ymm3, %xmm3
    ; CHECK-NEXT: vpmovq %ymm0, %xmm0
    ; CHECK-NEXT: vpmovq %ymm1, %xmm1
    ; CHECK-NEXT: vpmovq %ymm2, %xmm2
    ; CHECK-NEXT: vpmovq %ymm3, %xmm3
    ; CHECK-NEXT: vzeroupper
    %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: vpmovq %ymm0, %xmm0
    ; CHECK-NEXT: vpmovq %ymm1, %xmm1
    ; CHECK-NEXT: vpmovq %ymm2, %xmm2
    ; CHECK-NEXT: vpmovq %ymm3, %xmm3
    ; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
    ; CHECK-NEXT: vpmovq %ymm1, %xmm1
    ; CHECK-NEXT: vpmovq %ymm0, %xmm0
    ; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
    ; CHECK-NEXT: vpmovq %ymm0, %xmm0
    ; CHECK-NEXT: vzeroupper
    %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: vmovdqa 64(%rdi), %ymm2
    ; CHECK-NEXT: vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT: vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT: vpmovdb %ymm0, %xmm0

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]
    ; 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:  vpunpckldq {{.*#+}} 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), %ymm1
    ; CHECK-NEXT:  vpsrlq $48, (%rdi), %ymm2
    ; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
    ; CHECK-NEXT:  vperm2w %ymm1, %ymm2, %ymm0
    ; 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" {
    %a = load <16 x i32>, <16 x i32>* %x
    %b = lshr <16 x i32> %a, i16 16
    %c = trunc <16 x i32> %b to <16 x i16>
    ret <16 x i16> %c
}

define <32 x i16> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
    %a = load <32 x i16>, <32 x i16>* %x
    %b = lshr <32 x i16> %a, i16 16
    %c = trunc <32 x i16> %b to <32 x i8>
    ret <32 x i8> %c
}

define <8 x i64> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    %a = load <8 x i64>, <8 x i64>* %x
    %b = lshr <8 x i64> %a, i64 16
    %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 i16> @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:  vpsraw $8, 32(%rdi), %ymm0
    ; CHECK-AVX512-NEXT:  vpsraw $8, (%rdi), %ymm1
    ; CHECK-AVX512-NEXT:  vpcksswb %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:   vperm2b 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, 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 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[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {[*#*]} ymm2 =
xmm2[0],zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT: vextact128 $1, %ymm1, %xmm1
; CHECK-NEXT: vpshufd {[*#*]} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {[*#*]} ymm3 =
xmm3[0],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,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; 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 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: vpmovsxwq %xmm0, %y
; CHECK-NEXT: vpshufd {[*#*]} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpmovsxwq %xmm1, %ymm1
; CHECK-NEXT: vextact128 $1, %ymm0, %xmm2
; CHECK-NEXT: vpshufd {[*#*]} xmm3 = xmm2[2,3,0,1]
; CHECK-NEXT: vpmovsxwq %xmm3, %ymm3
; CHECK-NEXT: vpmovsxwq %xmm0, %ymm0
; CHECK-NEXT: vpmovsxwq %xmm1, %ymm1
; CHECK-NEXT: vpmovsxwq %xmm2, %ymm2
; CHECK-NEXT: vmovdqa %ymm2, 64(%rdi)
; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
; CHECK-NEXT: vmovdqa %ymm3, 96(%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 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, %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 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 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 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:
define void @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
    # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT: vzeroupper
    %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 i16> %a, <16 x i32> %x, <16 x i32> %y
    store <16 x i32> %b, <16 x i32>* %r
    ret void
}

define 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" {
    # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT: vzeroupper
    %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 i16> %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" {
    # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT: vpackusdw %ymm0, %ymm0
    ; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
    ; CHECK-NEXT: vpmovuswb %ymm0, %xmm0
    ; CHECK-NEXT: vzeroupper
}

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; 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>
%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>
%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 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>
%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>
%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 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

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; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $35, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-536870913, %rax # imm = 0xFFFFFFFF
; 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, %k0, %k0
; 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 = 0xFFFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $31, %k2, %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 = 0xffffffff1fffffff
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $30, %k2, %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 $-17179869185, %rax # imm = 0xffffffffc0fffffff
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $29, %k2, %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 $-34359738369, %rax # imm = 0xffffffff7fffffff
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; 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 = 0xFFFFBFFFFFFFFFFFFF
; 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 = 0xFFF7FFFFFFFFFFFFF
; 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 = 0xFFF7FFFFFFFFFFFFF
; 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 = 0xFFDFFFFFFFFFFFFF
; 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
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 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, 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 = global i64 0, align 8
@mem64_src = global i64 0, align 8
define 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]+}}(%rsi), %eax
; CHECK-NEXT: retq

%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 *@mem64_src, align 8
%4 = load i64, i64* @mem64_dst, align 8
store i64 %3, i64* @mem64_dst, align 8
ret i32 %4
}

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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
 llldbCore
 llldbHost
 llldbSymbol

LINK_COMPONENTS
 Support
)

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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 attributes.

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>* [[TMP3]] 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 = load <8 x i64>, <8 x i64>* %arg
%tmp2 = load <8 x i64>, <8 x i64>* %arg
%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
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 {
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1:%.*]])
  ; 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 {
  ; 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
}

define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ; CHECK-LABEL: define {
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1:%.*]])
  ; 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 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  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 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  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 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  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 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  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: call fastcc void @callee_avx512_legal512_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_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_avx2_legal512_prefer256_call_avx2_legal512_prefer256(8 x i64)* %arg, <8 x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define ([^@]+) @callee_avx2_legal512_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_legal512_prefer256_call_avx2_legal512_prefer256(8 x i64)* %arg) #4 {
; CHECK-LABEL: define ([^@]+) @avx2_legal512_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*
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* %arg) #3 {

bb:                 
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(\<8 x i64>\* %arg, <8 x i64>* \*%arg1) #4 {

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
}
%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
}

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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Yixuan Qiu <yixuanq@gmail.com>
Yusuke Suzuki <utatane.tea@gmail.com>
Zbigniew Skowron <zbychs@gmail.com>
; 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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; 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

---
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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; 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)

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

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}
define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}
define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000000000000000000000, %mul
  ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
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1.279 jquery 3.2.1-1

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**1.281 pyyaml 6.0**

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src/preproc/grn/gprint.h
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. 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
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src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
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src/devices/xditview/ad2c
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src/devices/xditview/font.c
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src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
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src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

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

src/libs/libxutil/DviChar.c
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[WAVEFRONTSDKGO098GANT012320]
1.298 python-certifi 2022.6.15
1.298.1 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:
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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***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.299 liblua5.2-dev 5.2.4-1.1build1
1.299.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1357682435_1657073665.776438/0/lua5-2-5-2-4-orig-1-tar-gz/lua5.2-5.2.4/doc/manual.html
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1.300 python 2.7.15~rc1-1
1.300.1 Available under license :

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This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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dh_python2, pycompile, pyclean and debpython module:

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```
Mail includes a simple facility for maintaining groups of messages together
in folders. This section describes this facility.
```

```
To use the folder facility, you must tell
```

```
Mail
```

where you wish to keep your folders. Each folder of messages will
be a single file. For convenience, all of your folders are kept in
a single directory of your choosing. To tell
```

```
Mail
```
where your folder directory is, put a line of the form

```mail
set folder=letters
```

in your

`.mailrc`

file. If, as in the example above, your folder directory does not begin with a `/',
`Mail`

will assume that your folder directory is to be found starting from your home directory. Thus, if your home directory is

`/home/person`

the above example told
`Mail`

to find your folder directory in

`/home/person/letters`

Anywhere a file name is expected, you can use a folder name, preceded with `+.' For example, to put a message into a folder with the

`.save`

command, you can use:

```mail
save +classwork
```

to save the current message in the

`.classwork`

folder. If the

`.classwork`

folder does not yet exist, it will be created. Note that messages which are saved with the

`.save`

command are automatically removed from your system mailbox.

In order to make a copy of a message in a folder without causing that message to be removed from your system mailbox, use the

`.copy`

command, which is identical in all other respects to the

`.save`

command. For example,

```mail
copy +classwork
```

copies the current message into the

`.classwork`

folder and leaves a copy in your system mailbox.

The

`.folder`
command
can be used to direct
i Mail
to the contents of a different folder.
For example,
./i
folder +classwork
.)i
directs
i Mail
to read the contents of the
i classwork
folder. All of the commands that you can use on your system
mailbox are also applicable to folders, including
.b type ,
.b delete ,
and
.b reply .
To inquire which folder you are currently editing, use simply:
./i
folder
.)i
.pp
To list your current set of folders, use the
.b folders
command.
.pp
To start
i Mail
reading one of your folders, you can use the
.b \f
option described in section 2. For example:
./i
% Mail \f +classwork
.)i
will cause
i Mail
to read your
i classwork
folder without looking at your system mailbox.
"$OpenBSD: mail7.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
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\documentclass{article}
\begin{document}
\section*{Format of messages}

This section describes the format of messages. Messages begin with a from line, which consists of the word From followed by a user name, followed by anything, followed by a date in the format returned by the ctime library routine described in section 3 of the Unix Programmer's Manual. A possible format date is:

\begin{verbatim}
Tue Dec 1 10:58:23 1981
\end{verbatim}

The ctime date may be optionally followed by a single space and a time zone indication, which should be three capital letters, such as PDT.

Following the from
\end{document}
line are zero or more
"header field"
lines.
Each header field line is of the form:

name: information

Name
can be anything, but only certain header fields are recognized as
having any meaning. The recognized header fields are:
article-id ,
bcc ,
cc ,
from ,
reply-to ,
sender ,
subject ,
and
to .
Other header fields are also significant to other systems; see,
for example, the current Arpanet message standard for much more
information on this topic.
A header field can be continued onto following lines by making the
first character on the following line a space or tab character.
If any headers are present, they must be followed by a blank line.
The part that follows is called the
body
of the message, and must be ASCII text, not containing null characters.
Each line in the message body must be no longer than 512 characters and
terminated with an ASCII newline character.
If binary data must be passed through the mail system, it is suggested
that this data be encoded in a system which encodes six bits into
a printable character (i.e.: uuencode).
For example, one could use the upper and lower case letters, the digits,
and the characters comma and period to make up the 64 characters.
Then, one can send a 16-bit binary number
as three characters. These characters should be packed into lines,
preferably lines about 70 characters long as long lines are transmitted
more efficiently.
The message delivery system always adds a blank line to the end of
each message. This blank line must not be deleted.
The UUCP message delivery system sometimes adds a blank line to
the end of a message each time it is forwarded through a machine.
It should be noted that some network transport protocols enforce
limits to the lengths of messages.

Mail Command Description

- `t [message list]`: type message(s).
- `more [message list]`: read message(s), through the $PAGER.
- `goto and type next message.`
- `e [message list]`: edit message(s).
- `f [message list]`: give head lines of messages.
- `d [message list]`: delete message(s).
- `s [message list] <file>`: append message(s) to file.
- `u [message list]`: undelete message(s).
- `R [message list]`: reply to message sender(s).
- `r [message list]`: reply to message sender(s) and all recipients.
- `p [message list]`: print message list.
- `pre [message list]`: make messages go back to /var/mail.
- `m <recipient list>`: mail to specific recipient(s).
- `q`: quit, saving unresolved messages in mbox.
- `x`: quit, do not remove system mailbox.
- `h`: print out active message headers.
- `!`: shell escape.
- `| [msglist] command`: pipe message(s) to shell command.
- `pi [msglist] commandpipe message(s) to shell command.
- `cd [directory]`: chdir to directory or home if none given.
- `fi <file>`: switch to file (%=system inbox, %user=user's system inbox). + searches in your folder directory for the file.
- `set variable[=value]`: set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or user names separated by spaces. If omitted, Mail uses the current message. The pipe command doesn't accept user names or subject message list, since that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by spaces. Aliases are defined in .mailrc in your home directory.

A <file> is a full or relative pathname, +folder, % (system inbox), %user (specified user's system inbox), # (previous file), & (mbox file), or an expression understood by ${SHELL:-/bin/sh} -c 'echo ...'.

The following ~ escapes are defined:
- `~b name ...`: Add names to "blind" Cc: list.
- `~c name ...`: Add names to Cc: field.
- `~d`: Read dead.letter into message.
- `~e`: Invoke text editor on partial message.
- `~F messages`: Same as ~f, but includes all headers.
- `~f messages`: Read in messages.
- `~h`: Edit the header fields.
-M messages Same as -m, but includes all headers.
-m messages Read in messages, right shifted by a tab.
-p Print (show) the message buffer.
-q Abort message; optionally save copy to ~/dead.letter.
-r file | < file Read a file into the message buffer.
-s string Set Subject: field to string.
-t name ... Add names to To: field.
-v Invoke display editor on message.
-w filename Write message to file.
-x Abort message; no copy is saved.
-? Print a brief summary of tilde escapes.
-!command Execute shell command.
-|command Pipe message through command.
-:command | _command Execute a Mail command.
-~ string Quote a single tilde.
-| Simulate end of file on input.

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

"OpenBSD: mail1.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
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" SUCH DAMAGE.
" @(#)mail1.nr8.1 (Berkeley) 6/8/93
"
Introduction

Mail provides a simple and friendly environment for sending and receiving mail. It divides incoming mail into its constituent messages and allows the user to deal with them in any order. In addition, it provides a set of ed-like commands for manipulating messages and sending mail. Mail offers the user simple editing capabilities to ease the composition of outgoing messages, as well as providing the ability to define and send to names which address groups of users. Finally, Mail is able to send and receive messages across such networks as the ARPANET, UUCP, and Berkeley network.

This document describes how to use the Mail program to send and receive messages. The reader is not assumed to be familiar with other message handling systems, but should be familiar with the UNIX shell, the text editor, and some of the common UNIX commands. "The UNIX Programmer's Manual," "An Introduction to Csh," and "Text Editing with Ex and Vi" can be consulted for more information on these topics.

A word of explanation is in order here concerning the name Mail:

the original UNIX mail program was known as /bin/mail.

The BSD mail program was called /usr/bin/mail.

The BSD mail program was called /usr/bin/mail to differentiate it from the older mail program.

is not included in OpenBSD so there is no ambiguity and the BSD mail program is installed as /usr/bin/mail.

is simply a link for backwards compatibility.

To further confuse the issue, a second link was retained for compatibility with SystemV systems, mailx.
In this document, we use the original name, 'Mail', to refer to any of these.

Here is how messages are handled:
the mail system accepts incoming
messages
for you from other people
and collects them in a file, called your
"system mailbox".

When you log in, the system notifies you if there are any messages waiting in your system mailbox. If you are a csh user, you will be notified when new mail arrives if you inform the shell of the location of your mailbox. On OpenBSD, your system mailbox is located in the directory /var/mail in a file with your login name. If your login name is sam, then you can make notify you of new mail by including the following line in your .cshrc file:

```
set mail=/var/mail/sam
```

When you read your mail using Mail, it reads your system mailbox and separates that file into the individual messages that have been sent to you. You can then read, reply to, delete, or save these messages.

Each message is marked with its author and the date they sent it.

```
$OpenBSD: mail2.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $
```

```
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THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
The *Mail* command has two distinct usages, according to whether one
wants to send or receive mail. Sending mail is simple: to send a
message to a user whose login name is, say, *root*,
use the shell command:

```
% Mail root
```

then type your message. When you reach the end of the message, type
an EOT (Control-D) at the beginning of a line, which will cause

```
(Mail)
```
to echo \*[lqEOT\*[rq and return you to the Shell. When the user you sent mail
to next logs in, he will receive the message:

```
You have mail.
```
to alert him to the existence of your message.

If, while you are composing the message
you decide that you do not wish to send it after all, you can
abort the letter with a <Control-C>. Typing a single <Control-C>
causes

```
(Mail)
```
to print

```
(Interrupt -- one more to kill letter)
```
Typing a second

`<Control-C>` causes

```
(Mail)
```
to save your partial letter on the file
  .q dead.letter
in your home directory and abort the letter.
Once you have
sent mail to someone, there is no way to undo the act, so be
careful.

The message your recipient reads will consist of the message you
typed, preceded by a line telling who sent the message (your login name)
and the date and time it
was sent.

If you want to send the same message to several other people, you can list
their login names on the command line.
Thus,

% Mail sam bob john
Tuition fees are due next Friday. Don't forget!!
<Control-D>
EOT
%

will send the reminder to sam, bob, and john.

If, when you log in, you see the message,

You have mail.

you can read the mail by typing simply:

% Mail

will respond by typing its version number and date and then listing
the messages you have waiting. Then it will type a prompt and await
your command. The messages are assigned numbers starting with 1 \*- you
refer to the messages with these numbers.

keeps track of which messages are
(new (have been sent since you last read your mail) and
(read (have been read by you). New messages have an

next to them in the header listing and old, but unread messages have

next to them.
.i Mail
keeps track of new/old and read/unread messages by putting a
header field called
.q Status
into your messages.

To look at a specific message, use the
.b type
command, which may be abbreviated to simply
.b t .
For example, if you had the following messages:

```
N 1 root     Wed Sep 21 09:21  "Tuition fees"
N 2 sam      Tue Sep 20 22:55
```

you could examine the first message by giving the command:

```
.i type 1
```

which might cause
.i Mail
to respond with, for example:

```
Message  1:
From root  Wed Sep 21 09:21:45 1978
Subject: Tuition fees
Status: R

Tuition fees are due next Wednesday.  Don't forget!!
```

Many
.i Mail
commands that operate on messages take a message number as an
argument like the
.b type
command.  For these commands, there is a notion of a current
message.  When you enter the
.i Mail
program, the current message is initially the first one.  Thus,
you can often omit the message number and use, for example,

```
.i t
```

to type the current message.  As a further shorthand, you can type a message
by simply giving its message number.  Hence,
would type the first message.

Frequently, it is useful to read the messages in your mailbox in order, one after another. You can read the next message in

by simply typing a newline. As a special case, you can type a newline as your first command to

to type the first message.

If, after reading a message, you wish to immediately send a reply, you can do so with the

command.

like

takes a message number as an argument.

then begins a message addressed to the user who sent you the message. You may then type in your letter in reply, followed by a <Control-D> at the beginning of a line, as before.

will type EOT, then type the ampersand prompt to indicate its readiness to accept another command. In our example, if, after typing the first message, you wished to reply to it, you might give the command:

\(\text{reply}\)

\(\text{Mail}\)

responds by typing:

\(\text{Mail}\)

and waiting for you to enter your letter. You are now in the message collection mode described at the beginning of this section and

will gather up your message up to a <Control-D>.

Note that it copies the subject header from the original message. This is useful in that correspondence about a particular matter will tend to retain the same subject heading, making it easy to recognize. If there are other header fields in the message, the information found will also be used.

For example, if the letter had a

"To:"


header listing several recipients,
.i Mail
would arrange to send your reply to the same people as well. Similarly, if the original message contained a
.q "Cc:"
(carbon copies to) field,
.i Mail
would send your reply to
.i those
users, too.
.i Mail
is careful, though, not too send the message to
.i you,
even if you appear in the
.q "To:"
or
.q "Cc:"
field, unless you ask to be included explicitly. See section 4 for more details.
.pp
After typing in your letter, the dialog with
.i Mail
might look like the following:
.l
.reply
To: root
Subject: Tuition fees

Thanks for the reminder
EOT
&
.l
.l
.pp
The
.b reply
command is especially useful for sustaining extended conversations
over the message system, with other
.q listening
users receiving copies of the conversation. The
.b reply
command can be abbreviated to
.b r .
.pp
Sometimes you will receive a message that has been sent to
several people and wish to reply
.i only
to the person who sent it.
.b Reply
with a capital
\b R
replies to a message, but sends a copy to the sender only.
\pp
If you wish, while reading your mail, to send a message to someone,
but not as a reply to one of your messages, you can send the message
directly with the
\b mail
command, which takes as arguments the names of the recipients you wish
to send to. For example, to send a message to
\q frank,
you would do:
\l
mail frank
This is to confirm our meeting next Friday at 4.
EOT
&
\l
The
\b mail
command can be abbreviated to
\b m .
\pp
Normally, each message you receive is saved in the file
\i mbox
in your login directory at the time you leave
\i Mail .
Often,
however, you will not want to save a particular message you
have received because it is only of passing interest. To avoid
saving a message in
\i mbox
you can delete it using the
\b delete
command. In our example,
\l
delete 1
\l
will prevent
\i Mail
from saving message 1 (from root) in
\i mbox .
In addition to not saving deleted messages,
\i Mail
will not let
you type them, either. The effect is to make the message disappear
altogether, along with its number. The
\b delete
command can be abbreviated to simply
   .b d  .
   .pp
Many features of
   .i Mail
can be tailored to your liking with the
   .b set
command. The
   .b set
command has two forms, depending on whether you are setting
   a
   .i binary
option or a
   .i valued
option.
Binary options are either on or off. For example, the
   .q ask
option informs
   .i Mail
that each time you send a message, you want it to prompt you for
   a subject header, to be included in the message.
To set the
   .q ask
option, you would type
   (l
   set ask
   )l
   .pp
Another useful
   .i Mail
option is
   .q hold.
Unless told otherwise,
   .i Mail
moves the messages from your system mailbox to the file
   .i mbox
in your home directory when you leave
   .i Mail  .
If you want
   .i Mail
to keep your letters in the system mailbox instead, you can set the
   .q hold
option.
   .pp
Valued options are values which
   .i Mail
uses to adapt to your tastes. For example, the
   .q SHELL
option tells
Mail
which shell you like to use, and is specified by
).
set SHELL=/bin/csh
).
for example. Note that no spaces are allowed in
"SHELL=/bin/csh."
A complete list of the
Mail
options appears in section 5.
).
Another important valued option is
.crt.
If you use a fast video terminal, you will find that when you
print long messages, they fly by too quickly for you to read them.
With the
crt
option, you can make
Mail
print any message larger than a given number of lines by sending
it through a paging program. This program is specified by the
valued option $BPAGER$.
If $BPAGER$ is not set, a default paginator is used.
For example, most CRT users with 24-line screens should do:
).
set crt=24
).
to paginate messages that will not fit on their screens.
In the default state, \more (default paginator) prints a screenful of
information, then types ``byte XXX'', where `XXX' represents the number
of bytes paginated.
Type a space to see the next screenful.
).
Another adaptation to user needs that
Mail
provides is that of
aliases .
An alias is simply a name which stands for one or more
real user names.
Mail
sent to an alias is really sent to the list of real users
associated with it. For example, an alias can be defined for the
members of a project, so that you can send mail to the whole project
by sending mail to just a single name. The
alias
command in
Mail
defines an alias. Suppose that the users in a project are
named Sam, Sally, Steve, and Susan. To define an alias called
.alias project
for them, you would use the
.Mail
command:
.alias project sam sally steve susan
The
.alias command can also be used to provide a convenient name for someone
whose user name is inconvenient. For example, if a user named
.alias "Bob Anderson"
had the login name
.alias anderson,
you might want to use:
.alias bob anderson
so that you could send mail to the shorter name,
 alias bob.
While the
.alias and
set
commands allow you to customize
.Mail ,
they have the drawback that they must be retyped each time you enter
.Mail .
To make them more convenient to use,
.Mail always looks for two files when it is invoked. It first reads
a system wide file
. /etc/mail.rc,
then a user specific file,
. /.mailrc,
which is found in the user's home directory.
The system wide file
is maintained by the system administrator and
contains
.set
commands that are applicable to all users of the system.
The
. /.mailrc
file is usually used by each user to set options the way he likes
and define individual aliases.
For example, my .mailrc file looks like this:

```bash
(l
set ask nosave SHELL=/bin/csh
)l
```

As you can see, it is possible to set many options in the same `.set` command. The `.q nosave` option is described in section 5.

Mail aliasing is implemented at the system-wide level by the mail delivery system `.sendmail`. These aliases are stored in the file `/etc/mail/aliases` and are accessible to all users of the system. The lines in `/etc/mail/aliases` are of the form:

```bash
(l
alias: name\*<1\*>, name\*<2\*>, name\*<3\*>
)l
```

where `.i alias` is the mailing list name and the `.i name\*<i\*>` are the members of the list. Long lists can be continued onto the next line by starting the next line with a space or tab. Remember that you must execute the command `.i newaliases` (as superuser) after editing `/etc/mail/aliases` since the delivery system uses an indexed file created by `.i newaliases`.

We have seen that `.i Mail` can be invoked with command line arguments which are people to send the message to, or with no arguments to read mail. Specifying the `.rb -f` flag on the command line causes `.i Mail` to read messages from a file other than your system mailbox. For example, if you have a collection of messages in the file `.q letters`
you can use
.i Mail
to read them with:
.i
% Mail -f letters
.i
You can use all
the
.i Mail
commands described in this document to examine, modify, or delete
messages from your
.i letters
file, which will be rewritten when you leave
.i Mail
with the
.b quit
command described below.
.pp
Since mail that you read is saved in the file
.i mbox
in your home directory by default, you can read
.i mbox
in your home directory by using simply
.i
% Mail -f
.i
.pp
Normally, messages that you examine using the
.b type
command are saved in the file
.i mbox
in your home directory if you leave
.i Mail
with the
.b quit
command described below.
If you wish to retain a message in your system mailbox
you can use the
.b preserve
command to tell
.i Mail
to leave it there.
The
.b preserve
command accepts a list of message numbers, just like
.b type
and may be abbreviated to
.b pre .
Messages in your system mailbox that you do not examine are normally retained in your system mailbox automatically. If you wish to have such a message saved in \texttt{.i mbox} without reading it, you may use the \texttt{.b mbox} command to have them so saved. For example, \texttt{.(l mbox 2 .)l}
in our example would cause the second message (from sam) to be saved in \texttt{.i mbox} when the \texttt{.b quit} command is executed. \texttt{.b Mbox} is also the way to direct messages to your \texttt{.i mbox} file if you have set the \texttt{.q hold} option described above. \texttt{.b Mbox} can be abbreviated to \texttt{.b mb}.

When you have perused all the messages of interest, you can leave \texttt{.i Mail} with the \texttt{.b quit} command, which saves the messages you have typed but not deleted in the file \texttt{.i mbox} in your login directory. Deleted messages are discarded irretrievably, and messages left untouched are preserved in your system mailbox so that you will see them the next time you type: \texttt{.(l %. Mail .)l}
The \texttt{.b quit} command can be abbreviated to simply \texttt{.b q}.

If you wish for some reason to leave \texttt{.i Mail} quickly without altering either your system mailbox or
you can type the command (short for `exit'),
which will immediately return you to the Shell without changing anything.

If, instead, you want to execute a Shell command without leaving `Mail',
you can type the command preceded by an exclamation point, just as in the text editor. Thus, for instance:

```
!date
```

will print the current date without leaving `Mail'.

Finally, the `help' command is available to print out a brief summary of the
`Mail' commands, using only the single character command abbreviations.
This section describes some additional commands useful for reading your mail, setting options, and handling lists of messages.

Several Mail commands accept a list of messages as an argument. Along with
and
.b delete,
described in section 2,
there is the
.b from
command, which prints the message headers associated with the
message list passed to it.
The
.b from
command is particularly useful in conjunction with some of the
message list features described below.

A
.i "message list"
consists of a list of message numbers, ranges, and names,
separated by spaces or tabs. Message numbers may be either
decimal numbers, which directly specify messages, or one of the
special characters
.q "^",
.q ".",
or
.q "$"
to specify the first relevant, current, or last
relevant message, respectively.
.i Relevant
here means, for most commands
.q "not deleted"
and
.q "deleted"
for the
.b undelete
command.

A range of messages consists of two message numbers (of the form
described in the previous paragraph) separated by a dash.
Thus, to print the first four messages, use
.(l
type 1\-4
.)l
and to print all the messages from the current message to the last
message, use
.(l
type \$\$-
.)l

.i name
is a user name. The user names given in the message list are
collected together and each message selected by other means is checked to make sure it was sent by one of the named users. If the message consists entirely of user names, then every message sent by one of those users that is .i relevant (in the sense described earlier) is selected. Thus, to print every message sent to you by .q root,
do .(l
type root
.)l
-pp
As a shorthand notation, you can specify simply .q *
to get every .i relevant (same sense) message. Thus,
.(l
type *
.)l
prints all undeleted messages,
.(l
delete *
.)l
deletes all undeleted messages, and
.(l
undelete *
.)l
undeletes all deleted messages.
-pp
You can search for the presence of a word in subject lines with .b .
For example, to print the headers of all messages that contain the word .q PASCAL,
do:
.(l
from /pascal
.)l
Note that subject searching ignores upper/lower case differences.
.sh 2 "List of commands"
-pp
This section describes all the .i Mail commands available when receiving mail.
The `.r` command goes to the previous message and prints it. The `.r` command may be given a decimal number as an argument, in which case the previous message is gone to and printed.

`.p` Prints a brief summary of commands.

Used to preface a command to be executed by the shell.

Like `.b print`, but also print out ignored header fields. See also `.Bprint`, `.Bignore`, and `.Bretain`. `.BPrint` can be abbreviated to `.BP`.

Note the capital `.BP` in the name.

Frame a reply to one or more messages. The reply (or replies if you are using this on multiple messages) will be sent ONLY to the person who sent you the message (respectively, the set of people who sent the messages you are replying to).

You can add people using the `.t`, `.c`, and `.b` tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with `.q "Re:"` unless it already began thus.

If the original message included a `.q "reply-to"` header field, the reply will go only to the recipient named by `.q "reply-to."`

You type in your message using the same conventions available to you through the `.b mail` command. The `.b Reply` command is especially useful for replying to messages that were sent to enormous distribution groups when you really just want to send a message to the originator. Use it often.
\bf Reply\fP (and \bf Respond\fP) can be abbreviated to \bf BR\fP.
\ip "\bf Type\fP\ "
Identical to the
\b Print
command.
\bf Type\fP can be abbreviated to \bf T\fP.
\ip "\bf alias\fP\ "
Define a name to stand for a set of other names.
This is used when you want to send messages to a certain
group of people and want to avoid retyping their names.
For example
\ip
alias project john sue willie kathryn
\ip
creates an alias
\ip
which expands to the four people John, Sue, Willie, and Kathryn.
If no arguments are given, all currently-defined aliases are printed.
If one argument is given, that alias is printed (if it exists).
\bf Alternates\fP can be abbreviated to \bf alt\fP.
\ip "\bf chdir\fP\ "
The
\b chdir
command allows you to change your current directory.
.b Chdir
takes a single argument, which is taken to be the pathname of
the directory to change to. If no argument is given,
.b chdir
changes to your home directory.
\fBChdir\fP can be abbreviated to \fBc\fP.
.ip "\fBcopy\fP\ "
The
.b copy
command does the same thing that
.b save
does, except that it does not mark the messages it is used on
for deletion when you quit.
\fBCopy\fP can be abbreviated to \fBco\fP.
.ip "\fBdelete\fP\ "
Deletes a list of messages. Deleted messages can be reclaimed
with the
.b undelete
command.
\fBDelete\fP can be abbreviated to \fBd\fP.
.ip "\fBdp\fP or \fBdt\fP\ "
These
commands delete the current message and print the next message.
They are useful for quickly reading and disposing of mail.
If there is no next message, \fIMail\fP says ``No more messages.''
.ip "\fBelse\fP\ "
To edit individual messages using the text editor, the
.b edit
command is provided. The
.b edit
command takes a list of messages as described under the
.b type
command and processes each by writing it into the file
Message\ix
.i x
where
.i x
is the message number being edited and executing the text editor on it.
When you have edited the message to your satisfaction, write the message
out and quit, upon which
.i Mail
will read the message back and remove the file.
.b Edit
can be abbreviated to
.b e .
.ip "\fBe\fP\ "
Marks the end of the then-part of an
.b if
statement and the beginning of the
part to take effect if the condition of the
.ip "ifBendif\fP\ "
Marks the end of an
.ip "ifBexi\fP or \Bexit\fP\ "
Leave
.ip "Mail without updating the system mailbox or the file you were reading.
Thus, if you accidentally delete several messages, you can use
.ip "exit to avoid scrambling your mailbox.
BFexit\fP can be abbreviated to BFex\fP or BFx\fP.
.ip "file\fP  The same as
.ip "folder can be abbreviated to BFfo\fP.
.ip "folders List the names of the folders in your folder directory.
.ip "folder The
.ip "b folder command switches to a new mail file or folder. With no arguments, it
tells you which file you are currently reading. If you give
it an argument, it will write out changes (such as deletions)
you have made in the current file and read the new file.
Some special conventions are recognized for the name:
.(b .TS center;
c c
l a.
NameMeaning
#Previous file read
%Your system mailbox
%Name\fP’s system mailbox
&Your ~/mbox file
+folderA file in your folder directory
.TE
.b
.BFolder\fP can be abbreviated to BFo\fP.
.ip "from\fP  The
.ip "b from
command takes a list of messages and prints out the header lines for each one; hence

```
.l
from joe
.l
```

is the easy way to display all the message headers from `\*(lqjoe.l*(rq
\From\P can be abbreviated to `\Bf\P.

```
.ip " \Bheaders\P\ "
```

When you start up

.i Mail
to read your mail, it lists the message headers that you have. These headers tell you who each message is from, when they were received, how many lines and characters each message is, and the

```
.q "Subject:" header field of each message, if present. In addition,
```

.i Mail
tags the message header of each message that has been the object of the

```
.b preserve
```
cmda with a

```
.q P.
```

Messages that have been

```
.b saved
```
or

```
.b written
```
are flagged with a

```
.q ".
```

Finally,

```
.b deleted
```
messages are not printed at all. If you wish to reprint the current
list of message headers, you can do so with the

```
.b headers
```
cmda. The

```
.b headers
cmda (and thus the initial header listing) only lists the first so many message headers. The number of headers listed depends on the speed of your terminal.
```

.i Mail
maintains a notion of the current

```
.q window
```
into your messages for the purposes of printing headers. Use the

```
.b z
```
command to move forward a window,
and

```
.b z-
```
to move back a window.
You can move .i Mail's notion of the current window directly to a particular message by using, for example,
./
headers 40
./
to move .i Mail's attention to the messages around message 40. 
\fBHeaders\fP can be abbreviated to \fBh\fP.

Print a brief and usually out of date help message about the commands in .i Mail.
The .i man page for .i mail is usually more up-to-date than either the help message or this manual. It is also a synonym for \fB?\fP.

Arrange to hold a list of messages in the system mailbox, instead of moving them to the file .i mbox in your home directory. If you set the binary option .i hold, this will happen by default. It does not override the \fBdelete\fP command. \fBHold\fP can be abbreviated to \fBho\fP.

Commands in your .q .mailrc file can be executed conditionally depending on whether you are sending or receiving mail with the .b if command. For example, you can do:
./
if receive \fIcommands\fP...
endif
./
An .b else form is also available:
./
if send \fIcommands\fP...
else
\fcommands\fP...
endif

.)l

Note that the only allowed conditions are

\b receive
and
\b send .

\ip "\fBignore\fP \ "

\b N.B.:
\i Ignore
has been superseded by
\i retain .

.br
Add the list of header fields named to the
\i "ignore list" .

Header fields in the ignore list are not printed on your
terminal when you print a message. This allows you to suppress
printing of certain machine-generated header fields, such as
\i Via
which are not usually of interest. The
\b Type
and
\b Print
commands can be used to print a message in its entirety, including
ignored fields.

If
\b ignore
is executed with no arguments, it lists the current set of ignored fields.
\ip "\fBin\fP\ "

Incorporate any new messages that have arrived while mail is being read.
The new messages are added to the end of the message list,
and the current message is reset to be the first new mail message.
This does not renumber the existing message list, nor does it
cause any changes made so far to be saved.
\ip "\fBlist\fP\ "

List the valid
\i Mail
commands.
\fBlist\fP can be abbreviated to \fBl\fP.

.. \ip \fBlocal\fP
.. Define a list of local names for this host. This command is useful
.. when the host is known by more than one name. Names in the list
.. may be qualified be the domain of the host. The first name on the local
.. list is the
.. \i distinguished
.. name of the host.
.. The names on the local list are used by
.. Mail
.. to decide which addresses are local to the host.
.. For example:
.. @l
.. local ucbarpa.BERKELEY.ARPA arpa.BERKELEY.ARPA \n .. arpavax.BERKELEY.ARPA r.BERKELEY.ARPA \n .. ucb-arpa.ARPA
.. @l
.. From this list we see that
.. @i "fred@ucbarpa.BERKELEY.ARPA",
.. @i "harold@arpa.BERKELEY",
.. and
.. @i "larry@r"
.. are all addresses of users on the local host.
.. The
.. @b local
.. command is usually not used by general users since it is designed for
.. local configuration; it is usually found in the file /usr/lib/Mail.rc.
.. @p "@fBmail@fP\"
Send mail to one or more people.  If you have the
.. @i ask
.. option set,
.. @i Mail
.. will prompt you for a subject to your message.  Then you
can type in your message, using tilde escapes as described in
section 4 to edit, print, or modify your message.  To signal your
satisfaction with the message and send it, type <Control-D> at the
beginning of a line, or a . alone on a line if you set the option
.. @i dot .
To abort the message, type two interrupt characters (Control-C
by default) in a row or use the
.. @b ~q
or
.. @b ~x
escapes.
The \fBmail\fP command can be abbreviated to \fBm\fP.
.. @p "@fBmbox@fP\"
Indicate that a list of messages be sent to
.. @i mbox
in your home directory when you quit.  This is the default
action for messages if you do
.. @i not
.. have the
.. @i hold
.. option set.
.. @p "@fBmore@fP\"
Takes a message list and invokes the pager on that list.
.. @p "@fBnext@fP or \fB+/\fP\"
The \texttt{.b next} command goes to the next message and types it. If given a message list, \texttt{.b next} goes to the first such message and types it. Thus, \texttt{.\(l\) next root \&.} \texttt{l}
goes to the next message sent by \texttt{.q root} and types it. The \texttt{.b next} command can be abbreviated to simply a newline, which means that one can go to and type a message by simply giving its message number or one of the magic characters \texttt{.q "^^"}  \texttt{.q "."}  \texttt{.q "$"}. Thus, \texttt{.\(l\) \&.} \texttt{l}
prints the current message and \texttt{.\(l\) 4} \texttt{l}
prints message 4, as described previously. \texttt{\textbackslash BNext\textbackslash P} can be abbreviated to \texttt{\textbackslash Bn\textbackslash P}. \texttt{.ip "\textbackslash Bpreserve\textbackslash P\textbackslash "} Same as \texttt{.b hold}. Cause a list of messages to be held in your system mailbox when you quit. \texttt{\textbackslash BPreserve\textbackslash P} can be abbreviated to \texttt{\textbackslash Bpre\textbackslash P}. \texttt{.ip "\textbackslash Bprint\textbackslash P\textbackslash "} Print the specified messages. If the \texttt{.b crt} variable is set, messages longer than the number of lines it indicates are paged through the command specified by the \texttt{\textbackslash BPAGER\textbackslash P} variable. The \texttt{\textbackslash Bprint\textbackslash P} command can be abbreviated to \texttt{\textbackslash Br\textbackslash P}. \texttt{.ip "\textbackslash Bquit\textbackslash P\textbackslash "} Terminates the session, saving all undeleted, unsaved and unwritten messages in the user's \texttt{\textbackslash Imbox\textbackslash P} file in their login directory (messages marked as having been read), preserving all messages marked with \texttt{\textbackslash Bhold\textbackslash P} or \texttt{\textbackslash Bpreserve\textbackslash P} or never referenced in their system mailbox.

Any messages that were deleted, saved, written, or saved to \texttt{\textbackslash Imbox\textbackslash P} are removed from their system mailbox.
If new mail has arrived during the session, the message ``You have new mail'' is given. If given while editing a mailbox file with the \fB-f\fP flag, then the edit file is rewritten.

A return to the Shell is effected, unless the rewrite of edit file fails, in which case the user can escape with the \fBexit\fP command.

\fBQuit\fP can be abbreviated to \fBq\fP.

\fI "\fBreply\fP or \fBrespond\fP\fI \fP
Frame a reply to a single message.

The reply will be sent to the person who sent you the message (to which you are replying), plus all the people who received the original message, except you. You can add people using the \fB-t\fP, \fB-c\fP, and \fB-b\fP tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with \fI "Re:"\fI unless it already began thus.

If the original message included a \fI "reply-to"\fI header field, the reply will go \fI only\fI to the recipient named by \fI "reply-to."\fI

You type in your message using the same conventions available to you through the \fB mail\fP command.

The \fB reply\fP (and \fB respond\fP) command can be abbreviated to \fB r\fP.

\fI "\fB retain\fP\fI \fP
Add the list of header fields named to the \fI retained list\fP.

Only the header fields in the retain list are shown on your terminal when you print a message.

All other header fields are suppressed.

The \fB Type\fP and \fB Print\fP commands can be used to print a message in its entirety.

If \fB retain\fP is executed with no arguments, it lists the current set of retained fields.

\fI "\fB save\fP\fI \fP
It is often useful to be able to save messages on related topics in a file. The \fB save\fP command gives you the ability to do this. The \fB save\fP command takes as an argument a list of message numbers, followed by
the name of the file in which to save the messages. The messages are appended to the named file, thus allowing one to keep several messages in the file, stored in the order they were put there. The filename in quotes, followed by the line count and character count is echoed on the user’s terminal.

An example of the .b save command relative to our running example is:

```
(l
s 1 2 tuitionmail
)l
.b Saved
```

messages are not automatically saved in .i mbox at quit time, nor are they selected by the .b next command described above, unless explicitly specified.

```
\fBSave\fP can be abbreviated to \fBs\fP.
```

```
\fBsaveignore\fP is to \fBsave\fP what \fBignore\fP is to \fBprint\fP and \fBtype\fR.
```

Header fields thus marked are filtered out when saving a message by \fBsave\fP or when automatically saving to \fImbox\fP.

```
\fBsaveretain\fP is to \fBsave\fP what \fBretain\fP is to \fBprint\fP and \fBtype\fR.
```

Header fields thus marked are the only ones saved with a message when saving by \fBsave\fP or when automatically saving to \fImbox\fP.

```
\fBsaveretain\fP overrides \fBsaveignore\fP.
```

Set an option or give an option a value. Used to customize .i Mail .

Section 5.3 contains a list of the options. Options can be .i binary , in which case they are .i on or .i off , or .i valued .

To set a binary option .i option .i on ,
do .(l
set option
)l
To give the valued option
.i option
the value
.i value
.
do
.
set option=value
.
The must be no space before or after the `=` sign.
If no arguments are given, all variable values are printed.
Several options can be specified in a single
.
set command.

\fBSet\fP can be abbreviated to \fBse\fP.

\fP "\fBshell\fP \ "
The \fBshell\fP command allows you to
escape to the shell.

\fBShell\fP invokes an interactive shell and allows you to type commands to it.
When you leave the shell, you will return to
.
Mail.
The shell used is a default assumed by
.
Mail:
you can override this default by setting the valued option
.
SHELL,
eg:
.
set SHELL=/bin/csh
.
\fBShell\fP can be abbreviated to \fBsh\fP.

\fP "\fBsize\fP \ "
Takes a message list and prints out the size in characters of each
message.

\fBsource\fP \ "
The \fBsource\fP command reads
.
mail
commands from a file. It is useful when you are trying to fix your
.
mailrc
file and you need to re-read it.

\fBSource\fP can be abbreviated to \fBso\fP.

\fP "\fBtop\fP \ "
The \fBtop\fP command takes a message list and prints the first five lines
of each addressed message.
If you wish, you can change the number of lines that
top prints out by setting the valued option

`.q “toplines.”`

On a CRT terminal,

`.l
set toplines=10
)l

might be preferred.

`Top` can be abbreviated to `to`.

`Type` is the same as `print`.

The `type` command can be abbreviated to `t`.

`Unalias` takes a list of names defined by `alias` commands and
discards the remembered groups of users.

The group names no longer have any significance.

`Undef` can be abbreviated to `u`.

`Unread` takes a message list and marks each message as
not having been read.

`Unread` can be abbreviated to `U`.

`Unset` takes a list of option names and discards their remembered values;
the inverse of `set`.

It is often useful to be able to invoke one of two editors,
based on the type of terminal one is using. To invoke
a display oriented editor, you can use the
`visual` command. The operation of the
`visual` command is otherwise identical to that of the
`edit` command.
The default for

These default editors can be overridden by the valued options

for the standard and screen editors. You might want to do:

```
set EDITOR=/bin/ed VISUAL=/usr/bin/mg
```

The `Visual` can be abbreviated to `v`.

The `save` command always writes the entire message, including the headers, into the file. If you want to write just the message itself, you can use the `write` command. The `write` command has the same syntax as the `save` command, and can be abbreviated to simply `w`.

Thus, we could write the second message by doing:

```
w 2 file.c
```

As suggested by this example, the `write` command is useful for such tasks as sending and receiving source program text over the message system. The filename in quotes, followed by additional file information, is echoed on the user's terminal.

`Mail` presents message headers in windowfuls as described under the `headers` command. You can move `Mail`'s attention forward to the next window by giving the
Throughout this manual, we have seen examples of binary and valued options. This section describes each of the options in alphabetical order, including some that you have not seen yet.

To avoid confusion, please note that the options are either all lower case letters or all upper case letters. When I start a sentence such as:

```
.q "Ask"
```
causes
```
i Mail
```
to prompt you for a subject header, I am only capitalizing
```
.q ask
```
as a courtesy to English.
```
i "EDITOR"
```
The valued option
```
.q EDITOR
```
defines the pathname of the text editor to be used in the
```
.b edit
```
command and ~e escape.
If not defined,
```
i /usr/bin/ex
```
is used.
```
i "BLISTER"
```
Pathname of the directory lister to use in the \Bfolders\P command.
Default is \bin\ls\P.
```
i "BMBOX"
```
The name of the \Imbox\P file.
It can be the name of a folder.
The default is `mbox` in the user's home directory.
```
i "BPAGER"
```
Pathname of the program to use for paginating output when it exceeds \crt\P lines.
A default paginator is used if this option is not defined.
```
i "SHELL"
```
The valued option
```
.q SHELL
```
gives the path name of your shell. This shell is used for the
```
.b !
```
command and ~! escape. In addition, this shell expands
file names with shell metacharacters like * and ? in them.

The valued option

defines the pathname of the screen editor to be used in the

command

and ~v escape.
If not defined,

is used.

The

option is binary and
causes messages saved in

to be appended to the end rather than prepended.

Normally, Mail will put messages in mbox in the same order that the system puts messages in your system mailbox.

By setting

you are requesting that

be appended to regardless. It is in any event quicker to append.


is a binary option which
causes

to prompt you for the subject of each message you send.
If you respond with simply a newline, no subject field will be sent.


is a binary option which
causes you to be prompted for additional blind carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.


is a binary option which
causes you to be prompted for additional carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.

Causes new mail to be automatically incorporated when it arrives.
Setting this is similar to issuing the Binc command at each prompt, except that the current message is not reset when new mail arrives.
Autoprint is a binary option which causes the delete command to behave like dp

- thus, after deleting a message, the next one will be typed automatically. This is useful when quickly scanning and deleting messages in your mailbox.

The valued option
crt is used as a threshold to determine how long a message must be before PAGER is used to read it.

The binary option
dot is a binary option which, if set, causes Mail to interpret a period alone on a line as the terminator of the message you are sending.

To allow you to change the escape character used when sending mail, you can set the valued option escape. Only the first character of the escape option is used, and it must be doubled if it is to appear as the first character of a line of your message. If you change your escape character, then ~ loses all its special meaning, and need no longer be doubled at the beginning of a line.

The name of the directory to use for storing folders of messages. If this name begins with a `/`

considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

The binary option
hold causes messages that have been read but not manually dealt with
to be held in the system mailbox. This prevents such messages from being automatically swept into your \fImbox\fP file.

The binary option

\b ignore

causes <Control-C> characters from your terminal to be ignored and echoed as @’s while you are sending mail. <Control-C> characters retain their original meaning in

\b Mail

command mode.

Setting the

\b ignore

option is equivalent to supplying the

\b \i

flag on the command line as described in section 6.

\b ignoreeof

An option related to \b dot is

\b ignoreeof

which makes

\b Mail

refuse to accept a <Control-D> as the end of a message.

\b Ignoreeof also applies to

\b Mail

command mode.

\b indentprefix

String used by the \fB~m\fP tilde escape for indenting messages, in place of the normal tab character (\fB^I\fP).

Be sure to quote the value if it contains spaces or tabs.

\b keep

The

\b keep

option causes

\b Mail

to truncate your system mailbox instead of deleting it when it is empty. This is useful if you elect to protect your mailbox, which you would do with the shell command:

\(l

\b chmod 600 /var/mail/yourname

\)l

where

\b yourname

is your login name. If you do not do this, anyone can probably read your mail, although people usually don't.

\b keepsave

When you
a message,
Mail usually discards it when you quit.
To retain all saved messages, set the
keepsave option.
When sending mail to an alias,
Mail makes sure that if you are included in the alias, that mail will not be sent to you. This is useful if a single alias is being used by all members of the group. If however, you wish to receive a copy of all the messages you send to the alias, you can set the binary option metoo.
noheader suppresses the printing of the version and headers when Mail is first invoked. Setting this option is the same as using \-N on the command line.
Normally, when you abort a message with two <Control-C>'s,
copies the partial letter to the file dead.letter in your home directory. Setting the binary option nosave prevents this.
Reverses the sense of reply and Reply commands.
The binary option quiet suppresses the printing of the version when Mail is first invoked, as well as printing the for example "Message 4:" from the
If you love to keep records, then the valued option .q record can be set to the name of a file to save your outgoing mail. Each new message you send is appended to the end of the file.

When Mail initially prints the message headers, it determines the number to print by looking at the speed of your terminal. The faster your terminal, the more it prints.

The valued option .q screen overrides this calculation and specifies how many message headers you want printed. This number is also used for scrolling with the .b z command.

If this option is set, then a message-list specifier in the form `/x:y` will expand to all messages containing the substring `y` in the header field `x`.

The string search is case insensitive. If `x` is omitted, it will default to the `Subject` header field. The form `~/to:y` is a special case, and will expand to all messages containing the substring `y` in the `To`, `Cc`, or `Bcc` header fields.

The check for `to` is case sensitive, so that `~/To:y` can be used to limit the search for `y` to just the `To:` field.

To use an alternate mail delivery system, set the .q sendmail option to the full pathname of the program to use. Note: this is not for everyone! Most people should use the default delivery system.

The valued option .q toplines defines the number of lines that the .q top command will print out instead of the default five lines.

The binary option "verbose" causes Mail to invoke sendmail with the -v
flag, which causes it to go into verbose mode and announce expansion of aliases, etc. Setting the "verbose" option is equivalent to invoking

```
.i Mail
with the
.
.b v-v
``` flag as described in section 6.

```
"$OpenBSD: mail8.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $"

"Copyright (c) 1980, 1993
"The Regents of the University of California. All rights reserved.
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"
"@(#)mail8.nr8.2 (Berkeley) 5/16/94
"
.sh 1 "Glossary"
.pp
This section contains the definitions of a few phrases peculiar to
.i Mail.
.i "alias"A alternative name for a person or list of people.
.i "flag"An option, given on the command line of
.i Mail,
prefaced with a \-.  For example,
\b \-f
is a flag.
\ip "\fheader field\fP"
At the beginning of a message, a line which contains information
that is part of the structure of the message. Popular header fields
include
\i to ,
\i cc ,
and
\i subject .
\ip "\fmail\fP"
A collection of messages. Often used in the phrase,
\q "Have you read your mail?"
\ip "\fmailbox\fP"
The place where your mail is stored, typically in the directory
/var/mail.
\ip "\fmessage\fP"
A single letter from someone, initially stored in your
\i mailbox .
\ip "\fmessage list\fP"
A string used in
\i Mail
command mode to describe a sequence of messages.
\ip "\foption\fP"
A piece of special purpose information used to tailor
\i Mail
to your taste.
Options are specified with the
\b set
command.
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@(#)mail0.nr8.1 (Berkeley) 6/8/93

Mail Reference Manual

MAIL REFERENCE MANUAL

Kurt Shoens

Revised by

Craig Leres

and

Mark Andrews
This section gives a quick summary of the Mail commands, binary and valued options, and tilde escapes.

The following table describes the commands:

<table>
<thead>
<tr>
<th>Mail command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CommandDescription

+Same as \fBnext\fP
-Back up to previous message
?Print brief summary of \fIMail\fP commands
!Single command escape to shell
PrintType message with ignored fields
ReplyReply to author of message only
RespondSame as \fBReply\fP
TypeType message with ignored fields
aliasDefine an alias as a set of user names
alternatesList other names you are known by
chdirChange working directory, home by default
copyCopy a message to a file or folder
deleteDelete a list of messages
dpSame as \fBdt\fP
dtDelete current message, type next message
diffEdit a list of messages
elseStart of else part of conditional; see \fBif\fP
dendifEnd of conditional statement; see \fBif\fP
exitLeave mail without changing anything
fileInterrogate/change current mail file
cfolderList the folders in your folder directory
headersList current window of messages
helpSame as \fB?\fP
holdSame as \fBpreserve\fP
ifConditional execution of \fIMail\fP commands
ignoreSet/examine list of ignored header fields
inclIncorporate new messages
listList valid \fIMail\fP commands
mailSend mail to specified names
mboxArrange to save a list of messages in \fImbox\fP
moreInvoke pager on message list
nextGo to next message and type it
preserveArrange to leave list of messages in system mailbox
printPrint messages
quitLeave \fIMail\fP; update system mailbox, \fImbox\fP as appropriate
replyCompose a reply to a message
respondSame as \fBreply\fP
retainSupersedes \fBignore\fP
saveAppend messages, headers included, on a file
saveignoreList of headers to ignore when using the \fBsave\fP command
saveretainList of headers to retain when using the \fBsave\fP command
setSet binary or valued options
shell
 invoke an interactive shell
size
 prints out size of message list
source
 read \fImail\fP commands from a file
top
 print first so many (5 by default) lines of list of messages
type
 same as \fBprint\fP
unalias
 remove alias
undelete
 undelete list of messages
unread
 marks list of messages as not been read
unset
 undo the operation of a \fBset\fP
visual
 invoke visual editor on a list of messages
write
 invoke \fBwrite\fP on a list of messages, don't include headers
xit
 same as \fBexit\fP
z
 scroll to next/previous screenful of headers
.TE
.(b
-BP
The following table describes the options. Each option is shown as being either a binary or valued option.
.TS
center;
c c i ci
l ci l.
Option Type Description
_.EDITOR valued Pathname of editor for \fB~e\fP and \fBedit\fP
LISTER valued Pathname of directory lister
MBOX valued Pathname of the \fImbox\fP file
PAGER valued Pathname of pager for \fBprint\fP, \fBprint\fP, \fBType\fP and \fBtype\fP
SHELL valued Pathname of shell for \fBshell\fP, \fB!\fP and \fB!\fP
VISUAL valued Pathname of screen editor for \fBvisual\fP
append binary Always append messages to end of \fImbox\fP
ask binary Prompt user for Subject: field when sending
askbcc binary Prompt user for additional BCc's at end of message
askcc binary Prompt user for additional Cc's at end of message
autoinc binary Automatically incorporate new mail
autoprint binary Print next message after \fBdelete\fP
ct valued Minimum number of lines before using \fBPAGER\fP
debug binary Print out debugging information
dot binary Accept . alone on line to terminate message input
escape valued Escape character to be used instead of \fB\fP
folder valued Directory to store folders in
hold binary Hold messages in system mailbox by default
ignore binary Ignore \fBControl-C\fP while sending mail
ignoreeof binary Don't terminate letters/command input with \fB^D\fP
indentprefix valued String used for indenting messages
keepbinary Don't unlink system mailbox when empty
keepsave binary Don't delete \fBsave\fP messages by default
metoo binary Include sending user in aliases
The following table summarizes the tilde escapes available while sending mail.

<table>
<thead>
<tr>
<th>Escape</th>
<th>Arguments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_</td>
<td></td>
<td></td>
</tr>
<tr>
<td>~b name ...</td>
<td>Add names to &quot;blind&quot; Cc: list.</td>
<td></td>
</tr>
<tr>
<td>~c name ...</td>
<td>Add names to Cc: field.</td>
<td></td>
</tr>
<tr>
<td>~d</td>
<td></td>
<td>Read \dead.letter\P into message.</td>
</tr>
<tr>
<td>~e</td>
<td></td>
<td>Invoke text editor on partial message.</td>
</tr>
<tr>
<td>~F messages</td>
<td>Same as ~f, but includes all headers.</td>
<td></td>
</tr>
<tr>
<td>~f messages</td>
<td>Read in messages.</td>
<td></td>
</tr>
<tr>
<td>~h</td>
<td></td>
<td>Edit the header fields.</td>
</tr>
<tr>
<td>~M messages</td>
<td>Same as ~m, but includes all headers.</td>
<td></td>
</tr>
<tr>
<td>~m messages</td>
<td>Read in messages, right shifted by a tab.</td>
<td></td>
</tr>
<tr>
<td>~p</td>
<td></td>
<td>Print (show) the message buffer.</td>
</tr>
<tr>
<td>~q</td>
<td></td>
<td>Abort message; optionally save copy to ~/dead.letter.</td>
</tr>
<tr>
<td>~r file</td>
<td>~&lt; file</td>
<td>Read a file into the message buffer.</td>
</tr>
<tr>
<td>~s string</td>
<td>Set Subject: field to \fIstring\P.</td>
<td></td>
</tr>
<tr>
<td>~t name ...</td>
<td>Add names to To: field.</td>
<td></td>
</tr>
<tr>
<td>~v</td>
<td></td>
<td>Invoke display editor on message.</td>
</tr>
<tr>
<td>~w filename</td>
<td>Write message to file.</td>
<td></td>
</tr>
<tr>
<td>~x</td>
<td></td>
<td>Abort message; no copy is saved.</td>
</tr>
<tr>
<td>~?</td>
<td></td>
<td>Print a brief summary of tilde escapes.</td>
</tr>
<tr>
<td>`command</td>
<td>Execute shell command.</td>
<td></td>
</tr>
<tr>
<td>~</td>
<td>command</td>
<td>Pipe message through \fIcommand\P.</td>
</tr>
<tr>
<td>~</td>
<td>command</td>
<td>Execute a \fIcommand\P command.</td>
</tr>
<tr>
<td>`~</td>
<td>string</td>
<td>Quote a single tilde.</td>
</tr>
<tr>
<td>`~</td>
<td></td>
<td>Simulate end of file on input.</td>
</tr>
</tbody>
</table>

Open Source Used In 5GaaS Edge 9.70 3588
The following table shows the command line flags that Mail accepts:

<table>
<thead>
<tr>
<th>Flag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-b filename</td>
<td>Send blind carbon copies to filename.</td>
</tr>
<tr>
<td>-c filename</td>
<td>Send carbon copies to filename.</td>
</tr>
<tr>
<td>-d</td>
<td>Turn on debugging.</td>
</tr>
<tr>
<td>-f filename</td>
<td>Show messages in filename or ~/.mbox.</td>
</tr>
<tr>
<td>-I</td>
<td>Force Mail to run in interactive mode.</td>
</tr>
<tr>
<td>-i</td>
<td>Ignore tty interrupt signals.</td>
</tr>
<tr>
<td>-N</td>
<td>Suppress the initial printing of headers.</td>
</tr>
<tr>
<td>-n</td>
<td>Inhibit reading of /etc/mail.rc.</td>
</tr>
<tr>
<td>-s filename</td>
<td>Use filename as subject in outgoing mail.</td>
</tr>
<tr>
<td>-T filename</td>
<td>Article-id's of read/deleted messages to filename.</td>
</tr>
<tr>
<td>-u username</td>
<td>Read username's mail instead of your own.</td>
</tr>
<tr>
<td>-v</td>
<td>Invoke sendmail with the -v flag.</td>
</tr>
</tbody>
</table>

Notes:
- d and T are not for human use.

$OpenBSD: mail6.nr,v 1.6 2006/03/04 16:18:06 miod Exp$

```
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```
This section describes command line options for Mail and what they are used for.

- **-b list**
  Send blind carbon copies to list.

- **-c list**
  Send carbon copies to list of users. List should be a comma separated list of names.

- **-f file**
  Show the messages in file instead of your system mailbox. If file is omitted, Mail reads mbox in your home directory.

- **-I**
  Forces mail to run in interactive mode, even when input is not a terminal. In particular, the special "~" command character, used when sending mail, is only available interactively.

- **-i**
  Ignore tty interrupt signals.

- **-N**
  Suppress the initial printing of headers.

- **-n**
  Inhibit reading of /etc/mail.rc upon startup.

- **-s string**
  Used for sending mail.
is used as the subject of the message being composed. If
.i string
contains blanks, you must surround it with quote marks.
.ip "\-u name"
Read
.i names's
mail instead of your own. Unwitting others often neglect to protect
their mailboxes, but discretion is advised. Essentially,
.b "\-u user"
is a shorthand way of doing
.b "\-f /var/mail/user".
.ip "\-v"
Use the
.b \-v
flag when invoking sendmail. This feature may also be enabled
by setting the option "verbose".
.pp
The following command line flags are also recognized, but are
intended for use by programs invoking
.i Mail
and not for people.
.ip \-d
Turn on debugging information. Not of general interest.
.ip "\-T file"
Arrange to print on
.i file
the contents of the
.i article-id
fields of all messages that were either read or deleted.
.b \-T
is for the
.i readnews
program and should NOT be used for reading your mail.
λ"$OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp $
λ"
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While typing in a message to be sent to others, it is often useful to be able to invoke the text editor on the partial message, print the message, execute a shell command, or do some other auxiliary function.

Mail provides these capabilities through "tilde escapes", which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:

```
~p
```

which will print a line of dashes, the recipients of your message, and the text of the message so far.

Since Mail requires two consecutive <Control-C>'s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape

```
~e
```

which causes the message to be copied into a temporary file and an instance of the editor to be spawned. After modifying the message to your satisfaction, write it out and quit the editor.
Mail will respond by typing
(continue)

after which you may continue typing text which will be appended to your message, or type <Control-D> to end the message.

A standard text editor is provided by Mail. You can override this default by setting the valued option q EDITOR to something else. For example, you might prefer:

set EDITOR=/bin/ed

Many systems offer a screen editor as an alternative to the standard text editor, such as the vi editor from UC Berkeley, or

mg, an emacs-like editor.

To use the screen, or visual editor, on your current message, you can use the escape, ~v

~v works like ~e, except that the screen editor is invoked instead. A default screen editor is defined by Mail.

If it does not suit you, you can set the valued option q VISUAL to the path name of a different editor.

It is often useful to be able to include the contents of some file in your message; the escape ~r filename

is provided for this purpose, and causes the named file to be appended to your current message.

Mail complains if the file doesn't exist or can't be read. If the read is successful, the number of lines and characters appended to your message is printed, after which you may continue
appending text. The filename may contain shell metacharacters like * and ?
which are expanded according to the conventions of your shell.

As a special case of ~r, the escape

~d

reads in the file

in your home directory. This is often useful since

copies the text

of your message there when you abort a message with <Control-C>.

To save the current text of your message on a file you may use the

escape.

Mail

will print out the number of lines and characters written
to the file, after which you may continue appending text to your message.
Shell metacharacters may be used in the filename, as in ~r and are expanded
with the conventions of your shell.

If you are sending mail from within

Mail's

command mode

you can read a message sent to you into the message

you are constructing with the escape:

which will read message 4 into the current message, shifted right by
one tab stop. You can name any non-deleted message, or list of messages.
Messages can also be forwarded without shifting by a tab stop with ~f.
This is the usual way to forward a message.

If, in the process of composing a message, you decide to add additional
people to the list of message recipients, you can do so with the escape

You may name as few or many additional recipients as you wish. Note
that the users originally on the recipient list will still receive
the message; you cannot remove someone from the recipient
list with ~t.
If you wish, you can associate a subject with your message by using the escape
\(~s~\)
Arbitrary string of text
\(~s~\)
which replaces any previous subject with
\(\text{"Arbitrary string of text."}\)
The subject, if given, is sent near the top of the message prefixed with
\(\text{"Subject:"}\)
You can see what the message will look like by using \(~p~\).
\(~p~\)
For political reasons, one occasionally prefers to list certain people as recipients of carbon copies of a message rather than direct recipients. The escape
\(~c~name1~name2~\ldots~\)
adds the named people to the \(\text{"Cc:"}\) list, similar to \(~t~\).
Again, you can execute \(~p~\) to see what the message will look like.
\(~p~\)
The escape
\(~b~name1~name2~\ldots~\)
adds the named people to the \(\text{"Cc:"}\) list, but does not make the names visible in the \(\text{"Cc:"}\) line ("blind" carbon copy).
\(~p~\)
The recipients of the message together constitute the \(\text{"To:"}\) field, the subject the \(\text{"Subject:"}\) field, and the carbon copies the \(\text{"Cc:"}\) field. If you wish to edit these in ways impossible with the \(~t~\), \(~s~\), \(~c~\)
and \(~b~\) escapes, you can use the escape
\(~h~\)
which prints
\(\text{"To:"}\)
followed by the current list of recipients and leaves the cursor (or printhead) at the end of the line. If you type in ordinary
characters, they are appended to the end of the current list of recipients. You can also use your erase character to erase back into the list of recipients, or your kill character to erase them altogether. Thus, for example, if your erase and kill characters are the standard (on printing terminals) <Control-H> and <Control-U> keys,

```
~h
To: root kurt^H^H^H^Hbill
```

would change the initial recipients

```
.q "root kurt"
```
to

```
.q "root bill."
```

When you type a newline,

```
.i Mail
advances to the
```

```
.q "Subject:" field, where the same rules apply. Another newline brings you to the
```

```
.q "Cc:" field, which may be edited in the same fashion. Another newline brings you to the
```

```
.q "Bcc:" (*blind* carbon copy) field, which follows the same rules as the "Cc:" field. Another newline leaves you appending text to the end of your message. You can use
```

```
~p to print the current text of the header fields and the body of the message.
```

```
```
To effect a temporary escape to the shell, the escape
```

```
~!command
```

is used, which executes

```
.i command
```

and returns you to mailing mode without altering the text of your message. If you wish, instead, to filter the body of your message through a shell command, then you can use
```

```
~|command
```

which pipes your message through the command and uses the output as the new text of your message. If the command produces no output, `i Mail` assumes that something is amiss and retains the old version of your message. A frequently-used filter is the command

```
.i fmt ,
designed to format outgoing mail.
To effect a temporary escape to command mode instead, you can use the escape.

~:fIMail commandP escape. This is especially useful for retyping the message you are replying to, using, for example:

~:t

It is also useful for setting options and modifying aliases.

If you wish abort the current message, you can use the escape

~:q

This will terminate the current message and return you to the shell (or IMailP if you were using the BmailP command). If the BsaveP option is set, the message will be copied to the file

.q dead.letter

in your home directory.

If you wish to abort the current message, without saving any copy of it whatsoever, even if the BsaveP option is set, you can use the escape

~:x

If you wish (for some reason) to send a message that contains a line beginning with a tilde, you must double it. Thus, for example,

~~This line begins with a tilde.

sends the line

~This line begins with a tilde.

Finally, the escape

~?

prints out a brief summary of the available tilde escapes.
On some terminals (particularly ones with no lower case) tilde’s are difficult to type.

Mail allows you to change the escape character with the escape option. For example, I set

```
set escape=]
```

and use a right bracket instead of a tilde. If I ever need to send a line beginning with right bracket, I double it, just as for ~. Changing the escape character removes the special meaning of ~.

This section describes how to send mail to people on other machines.

Recall that sending to a plain login name sends mail to that person on your machine. If your machine is directly (or sometimes, even, indirectly) connected to the Internet, you can send messages to people on the Internet using a name of the form

```
name@host.domain
```

where

- `name` is the login name of the person you're trying to reach,
- `host` is the name of the machine on the Internet, and
- `domain` is the higher-level scope within which the hostname is known, e.g. EDU (for educational institutions), COM (for commercial entities), GOV (for governmental agencies), ARPA for many other things, BITNET or CSNET for those networks.

If your recipient logs in on a machine connected to yours by UUCCP (the Bell Laboratories supplied network that communicates over telephone lines), sending mail can be a bit more complicated. You must know the list of machines through which your message must travel to arrive at his site. So, if his machine is directly connected to yours, you can send mail to him using the syntax:

```
host!name
```

where, again,

- `host` is the name of the machine and
- `name` is the login name.
If your message must go through an intermediary machine first, you must use the syntax:

```
.(!
intermediary!host!name
)
```

and so on. It is actually a feature of UUCP that the map of all the systems in the network is not known anywhere (except where people decide to write it down for convenience). Talk to your system administrator about good ways to get places; the `.i uuname` command will tell you systems whose names are recognized, but not which ones are frequently called or well-connected.

PP

When you use the `.b reply` command to respond to a letter, there is a problem of figuring out the names of the users in the `.q "To:"
and
`.q "Cc:"
lists
`.i "relative to the current machine"`.

If the original letter was sent to you by someone on the local machine, then this problem does not exist, but if the message came from a remote machine, the problem must be dealt with.

Mail

uses a heuristic to build the correct name for each user relative to the local machine. So, when you `.b reply` to remote mail, the names in the `.q "To:"
and
`.q "Cc:"
lists may change somewhat.

sh 2 "Special recipients"

PP

As described previously, you can send mail to either user names or `.b alias` names. It is also possible to send messages directly to files or to programs, using special conventions. If a recipient name has a `/' in it or begins with a `+', it is assumed to be the path name of a file into which to send the message. If the file already exists, the message is appended to the end of the file. If you want to name a file in your current directory (ie, one for which a `/' would not usually be needed) you can precede the name with `./`

So, to send mail to the file `.q memo`
in the current directory, you can give the command:

```bash
% Mail /memo
```

If the name begins with a `+,' it is expanded into the full path name of the folder name in your folder directory.

This ability to send mail to files can be used for a variety of purposes, such as maintaining a journal and keeping a record of mail sent to a certain group of users. The second example can be done automatically by including the full pathname of the record file in the `.b alias
command for the group. Using our previous `.b alias
example, you might give the command:

```bash
alias project sam sally steve susan /usr/project/mail_record
```

Then, all mail sent to "project" would be saved on the file

```bash
.q /usr/project/mail_record
```

as well as being sent to the members of the project. This file can be examined using

```bash
i "Mail -f"
```

It is sometimes useful to send mail directly to a program, for example one might write a project billboard program and want to access it using

```bash
.Mail
```

To send messages to the billboard program, one can send mail to the special name `|billboard' for example.

```bash
.Mail
treats recipient names that begin with a `|' as a program to send
the mail to. An `.b alias
can be set up to reference a `|' prefaced name if desired.
`.i Caveats:
the shell treats `|' specially, so it must be quoted on the command line. Also, the `| program' must be presented as a single argument to mail. The safest course is to surround the entire name with double quotes. This also applies to usage in the `.b alias
command. For example, if we wanted to alias `rmsgs' to `rmsgs -s'
we would need to say:

```bash
alias rmsgs "| rmsgs -s"
```

```bash
``
1.308 go-openapi-jsonpointer 0.19.3

1.308.1 Available under license:

Apache License
Version 2.0, January 2004
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1.309 librsvg 2.40.20-2ubuntu0.2

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1.311 libpcap 1.8.1 6ubuntu1.18.04.2

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1.315 multiarch-support 2.27-3ubuntu1.4

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@subheading END OF TERMS AND CONDITIONS

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

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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@if

@end if

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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

@example
@var{one line to give the program's name and a brief idea of what it does.}
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@end example

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```
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```

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```
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```

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Version 2.1, February 1999

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

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

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a) Accompany the work with the complete corresponding
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>>> unicode-5.0

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* /opt/cola/permits/1301895021_1649303974.16/0/netty-resolver-4.1.75-final-sources-1-jar/io/netty/resolver/DefaultNameResolver.java
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* /opt/cola/permits/1301895021_1649303974.16/0/netty-resolver-4.1.75-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1301895021_1649303974.16/0/netty-resolver-4.1.75-final-sources-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1301895021_1649303974.16/0/netty-resolver-4.1.75-final-sources-1-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1301895021_1649303974.16/0/netty-resolver-4.1.75-final-sources-1-jar/io/netty/resolver/DefaultAddressResolver.java
* /opt/cola/permits/1301895021_1649303974.16/0/netty-resolver-4.1.75-final-sources-1-jar/io/netty/resolver/AbstractAddressResolver.java
1.348 lsof 4.89+dfsg-0.1

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: lsof
Upstream-Contact: https://lists.rcac.purdue.edu/listinfo/lsof-l
Source: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/
Comment: The following changes were made to the upstream tarball:
1.) The directory dialects/uw was removed for being non-DFSG
and not needed in Debian.
2.) The main source was a tarball within a tarball. Only the innermost
tarball has been retained.
3.) The top-level directory has been stripped away as it embedded the
version number making packaging more difficult.

Files: *
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Files: debian/*
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2012, Raoul Gunnar Borenius <borenius@dfn.de>
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1.349 vixie-cron 3.0pl1-128.1ubuntu1.2

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# */

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
killed your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
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* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
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* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1332440016_1655356323.3918874/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c

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* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
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*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/man1,
which will be hard since there will be name collisions. (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src

crontab -u news -r /usr/lib/news/crontab.src

crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r-
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.
ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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1.351 bind9-dnsutils 9.16.1-0ubuntu2.10

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    <xsl:param name="text"/>
    <xsl:value-of select=""/>  
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
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      <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
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      <xsl:variable name="rest" select="substring-after($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:stylesheet>
</xsl:variable>
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1.352 json-java 2.1.0

1.352.1 Available under license:
No license file was found, but licenses were detected in source scan.

/
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* remains attached.
*/

Found in path(s):
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/ext/json/ext/generator/generator.c

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/* Portions of the Selector class are derived from Jack Slocum’s DomQuery, 
* part of YUI-Ext version 0.40, distributed under the terms of an MIT-style 
* license. Please see http://www.yui-ext.com/ for more information. */

Found in path(s):
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/data/prototype.js

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

/*
* This code is copyrighted work by Daniel Luz <dev at mernen dot com>.
*
* Distributed under the Ruby license: https://www.ruby-lang.org/en/about/license.txt
*/

Found in path(s):
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/GeneratorMethods.java
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/OptionsReader.java
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/ParserService.java
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/StringEncoder.java
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/Utils.java
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/GeneratorState.java
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/RuntimeInfo.java
No license file was found, but licenses were detected in source scan.

# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `decimal_class` option to specify a class as which to parse JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibility to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.
## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing `space_before` accessor in generator.
* Performance on JRuby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make serialize :some_attribute, `JSON::GenericObject` work in Rails active models for convenient `SomeModel#some_attribute.foo.bar` access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and `JSON::GenericObject`. It should not be possible to create additions unless explicitly requested by setting the create_additions argument to true or using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to be automatically deserialised, this has to be explicitly enabled by setting
  `JSON::GenericObject.json_creatable = true` as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155 provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enebo@gmail.com>), should fix https://github.com/flori/json/issues#issue/119.
* Fix https://github.com/flori/json/issues#issue/117

## 2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda <bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and developing a patch fix.

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
* Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load('')` return nil as well to make mysql text columns (default to `''`) work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails’ serialize method. Just use:
  
  serialize :value, JSON

* Fix bug with time serialization concerning nanoseconds. Thanks for the
patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in:
  https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz <dev@meren.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23, always create a new object from the state prototype.
* Made pure and ext api more similar again.
## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This should reduce problems with `to_json` method definitions that only have one argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
* Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of json_pure if extensiontask is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
* Applied 993f261cc8f8911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified directory/file-structure.
* Extension should at least be compatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Triger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a `State#[]` method which returns an attribute's value in order to increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible to Rubinius.

## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of strings in object names/keys.
## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Finally got around to avoid the rather paranoid escaping of `?/` characters in the generator's output. The parsers aren't affected by this change.
  Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue.
  Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure
variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a `JSON.parse!` method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the `max_nesting` feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.
## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for
data from untrusted sources. If you trust the source, you can disable it
with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every
character can be escaped by `\` as required by RFC4627. There's a
contradiction between David Crockford's JSON checker test vectors (in
tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because
the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile
under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the
pure version. This should avoid overshadowing of eventual problems while
loading of the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON
parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings
now always must contain exactly one object `"{ ... }"` or array `"[ ... ]"` in
order to be parsed without raising an exception. The definition of what
constitutes a whitespace is narrower in JSON than in Ruby (`[\t\r\n]`), and
there are differences in floats and integers (no octals or hexadecimals) as
well.
* Added aliases generate and `pretty_generate` of unparse and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun
boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was
reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!
## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/ characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

Found in path(s):
* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/CHANGES.md

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Internet Engineering Task Force (IETF) T. Bray, Ed.
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The JavaScript Object Notation (JSON) Data Interchange Format

Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.

This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 5741.

Information about the current status of this document, any errata,
it for publication as an RFC or to translate it into languages other than English.

Table of Contents

1. Introduction ....................................................3
   1.1. Conventions Used in This Document ......................4
   1.2. Specifications of JSON ..................................4
   1.3. Introduction to This Revision ..........................4
2. JSON Grammar ....................................................4
3. Values ..........................................................5
4. Objects ..........................................................6
5. Arrays ..........................................................6
6. Numbers ..........................................................6
7. Strings ..........................................................8
8. String and Character Issues .................................9
   8.1. Character Encoding ......................................9
   8.2. Unicode Characters ......................................9
   8.3. String Comparison ......................................9
1. Introduction

JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans, and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.
The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

The grammatical rules in this document are to be interpreted as described in [RFC5234].

1.2. Specifications of JSON

This document updates [RFC4627], which describes JSON and registers the media type "application/json".

A description of JSON in ECMAScript terms appears in Version 5.1 of the ECMAScript specification [ECMA-262], Section 15.12. JSON is also described in [ECMA-404].

All of the specifications of JSON syntax agree on the syntactic elements of the language.

1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an
Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all implementations will accept these as conforming JSON texts.

JSON-text = ws value ws

These are the six structural characters:

begin-array = ws %x5B ws ; [ left square bracket
begin-object = ws %x7B ws ; { left curly bracket
end-array = ws %x5D ws ; ] right square bracket
end-object = ws %x7D ws ; } right curly bracket
name-separator = ws %x3A ws ; : colon
value-separator = ws %x2C ws ; , comma

Insignificant whitespace is allowed before or after any of the six structural characters.

ws = *(
    %x20 / ; Space
    %x09 / ; Horizontal tab
    %x0A / ; Line feed or New line
    %x0D ) ; Carriage return

3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

value = false / null / true / object / array / number / string

false = %x66.61.6c.73.65 ; false
null = %x6e.75.6c.6c ; null
true = %x74.72.75.65 ; true
4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

\[
\text{object} = \text{begin-object} [ \text{member} *( \text{value-separator} \text{member} ) ] \text{end-object}
\]

\[
\text{member} = \text{string} \text{name-separator} \text{value}
\]

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

\[
\text{array} = \text{begin-array} [ \text{value} *( \text{value-separator} \text{value} ) ] \text{end-array}
\]

There is no requirement that the values in an array be of the same type.

6. Numbers
The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.

```plaintext
number = [ minus ] int [ frac ] [ exp ]
decimal-point = %x2E ; .
digit1-9 = %x31-39 ; 1-9
e = %x65 / %x45 ; e E
exp = e [ minus / plus ] 1*DIGIT
frac = decimal-point 1*DIGIT
int = zero / ( digit1-9 *DIGIT )
minus = %x2D ; -
plus = %x2B ; +
zero = %x30 ; 0
```

This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range.
than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range \[-(2^{53})+1, (2^{53})-1\] are interoperable in the sense that implementations will agree exactly on their numeric values.

7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A through F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as "\u005C".

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as "\".

To escape an extended character that is not in the Basic Multilingual
Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as 
”\uD834\uDD1E”.

string = quotation-mark *char quotation-mark

char = unescaped / escape ( %x22 / ;" quotation mark U+0022 %x5C / ;\ reverse solidus U+005C %x2F / ;/ solidus U+002F %x62 / ;b backspace U+0008 %x66 / ;f form feed U+000C %x6E / ;n line feed U+000A %x72 / ;r carriage return U+000D %x74 / ;t tab U+0009 %x75 4HEXDIG ) ;uXXXX U+XXXX

escape = %x5C ;\ quotation-mark = %x22 ;" unescaped = %x20-21 / %x23-5B / %x5D-10FFFF

8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.
8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, "\\uDEAD" (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison

Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.
nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a

Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:

JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.

<table>
<thead>
<tr>
<th>Bray</th>
<th>Standards Track</th>
<th>[Page 10]</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFC 7159</td>
<td>JSON</td>
<td>March 2014</td>
</tr>
</tbody>
</table>
12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.
13. Examples

This is a JSON object:

```
{
  "Image": {
    "Width": 800,
    "Height": 600,
    "Title": "View from 15th Floor",
    "Thumbnail": {
      "Url": "http://www.example.com/image/481989943",
      "Height": 125,
      "Width": 100
    },
    "Animated": false,
    "IDs": [116, 943, 234, 38793]
  }
}
```

Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[
  {
    "precision": "zip",
    "Latitude": 37.7668,
    "Longitude": -122.3959,
    "Address": "",
    "City": "SAN FRANCISCO",
    "State": "CA",
    "Zip": "94107",
    "Country": "US"
  },
  {
    "precision": "zip",
    "Latitude": 37.371991,
    "Longitude": -122.026020,
    "Address": ""
  }
]
```
Here are three small JSON texts containing only values:

"Hello world!"

42

ture

14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References


15.2. Informative References


Bray Standards Track [Page 13]

RFC 7159 JSON March 2014


Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
o Added language about duplicate object member names, member
ordering, and interoperability.

o Clarified the absence of a requirement that values in an array be
of the same JSON type.

o Applied erratum #607 from RFC 4627 to correctly align the artwork
for the definition of "object".

o Changed "as sequences of digits" to "in the grammar below" in the
"Numbers" section, and made base-10-ness explicit.

o Added language about number interoperability as a function of
IEEE754, and added an IEEE754 reference.

o Added language about interoperability and Unicode characters and
about string comparisons. To do this, turned the old "Encoding"
section into a "String and Character Issues" section, with three
subsections: "Character Encoding", "Unicode Characters", and
"String Comparison".

o Changed guidance in the "Parsers" section to point out that
implementations may set limits on the range "and precision" of
numbers.

o Updated and tidied the "IANA Considerations" section.

o Made a real "Security Considerations" section and lifted the text
out of the previous "IANA Considerations" section.

Bray                         Standards Track                   [Page 15]
RFC 7159                     JSON                        March 2014

o Applied erratum #3607 from RFC 4627 by removing the security
consideration that begins "A JSON text can be safely passed" and
the JavaScript code that went with that consideration.

o Added a note to the "Security Considerations" section pointing out
the risks of using the "eval()" function in JavaScript or any
other language in which JSON texts conform to that language's
syntax.
o Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

o Changed "100" to 100 and added a boolean field, both in the first example.

o Added examples of JSON texts with simple values, neither objects nor arrays.

o Added a "Contributors" section crediting Douglas Crockford.

o Added a reference to RFC 4627.

o Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

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* /opt/cola/permits/1193918975_1641844467.4/0/json-2-1-0-zip/json-2.1.0/java/src/json/ext/Parser.rl

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1.355 xxhash 2.1.1

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1.356 urllib3 1.22

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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* HTTPS patch (which inspired HTTPSConnectionPool)
* eirkcederstrand <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/@WBRSRlBZDhBFQ6/>
* Code review, PEP8 compliance, benchmark fix

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

* georgemarshall <http://github.com/georgemarshall>
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* 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs
* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Tom White <s6yg1e3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

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

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

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

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

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1.357 python-lazy-object-proxy 1.3.1

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1.359 minizip 1.1-8build1
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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

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

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

Background

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

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

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

* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive. Used when debugging and validating the creation of zip files using MiniZip64
Notes.
* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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* /opt/cola/permits/1234000228_1638191764.6/0/minizip-1-1-orig-tar-xz/minizip/MiniZip64_info.txt
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/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson ( http://result42.com )

For more info read MiniZip_info.txt
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c. Code woven in by Terry Thorsen 1/2003.

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See the accompanying file LICENSE, version 2000-Apr-09 or later (the contents of which are also included in zip.h) for terms of use. If, for some reason, all these files are missing, the Info-ZIP license also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -&gt; cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was &gt; 4G and compressed size was &lt;4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from patches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer
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*/

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/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /opt/cola/permits/1234000228_1638191764.6/0/minizip-1-1-orig-tar-xz/minizip/mztools.c
* /opt/cola/permits/1234000228_1638191764.6/0/minizip-1-1-orig-tar-xz/minizip/mztools.h
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/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

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Changes

See header of zip.h

*/

Found in path(s):
* /opt/cola/permits/1234000228_1638191764.6/0/minizip-1-1-orig-tar-xz/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

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Changes

See header of unzip64.c

*/

Found in path(s):
* /opt/cola/permits/1234000228_1638191764.6/0/minizip-1-1-orig-tar-xz/minizip/unzip.h

1.360 go-yaml 2.2.8

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1.361 libvorbis 1.3.5 4.2

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1.362 x-crypto 0.0.0-20211215153901-e495a2d5b3d3

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1.363 python-pip 21.3

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.372 click 7.1.2

1.372.1 Available under license:

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py

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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/",
    }
)
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 feature set 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 note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/docs/contrib.rst

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* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/parser.py

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Including attribution to #612

Found in path(s):
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/tests/test_formatting.py

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
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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.

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

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

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

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

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pycparser -- A C parser in Python

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1.385 go-md2man 2.0.0

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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,
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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------

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1.390 x-sys 0.0.0-20211103235746-7861aae1554b

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1.392 go-retryablehttp 0.6.6

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1.393 netty-resolver-dns-native-macos

4.1.75.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver/DNS/Native/MacOS
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver.dns.macos
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver-dns-native-macos
Implementation-Version: 4.1.75.Final
Built-By: norman
Bnd-LastModified: 1646911429197
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Resolver/DNS/Native/MacOS
Bundle-Version: 4.1.75.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-resolver-dns-native-macos/

Found in path(s):
* /opt/cola/permits/1302235719_1650266808.9/0/netty-resolver-dns-native-macos-4-1-75-final-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1302235719_1650266808.9/0/netty-resolver-dns-native-macos-4-1-75-final-jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3, 29 June 2007

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<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

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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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1.412 libasound 1.1.3-5ubuntu0.6

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1.415 pcre 8.39-12ubuntu0.1

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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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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1.420 libgraphite2-dev 1.3.11-2

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1.438 python3-idna 2.6-1

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Metadata-Version: 1.1
Name: idna
Version: 2.6
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

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This acts as a suitable replacement for the "encodings.idna" module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (RFC 3490 <http://tools.ietf.org/html/rfc3490>\(^\_\)).

Basic functions are simply executed:

```
# Python 3
>>> import idna
>>> idna.encode('')
'b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

Packages
--------

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna
```

Installation
------------

To install this library, you can use pip:

```
.. code-block:: bash

    $ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash

    $ python setup.py install
```

This library works with Python 2.6 or later, and Python 3.3 or later.
Usage
-----

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```python
# Python 3
>>> import idna
>>> idna.encode('.
  b'xn--eckwd4c7c.xn--zckzah'
  >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
```

You may use the codec encoding and decoding methods using the
``idna.codecs`` module:

```python
# Python 2
>>> import idna
>>> print u'.'.encode('idna')
  xn--80ahd1agd.xn--80akhbyknj4f
  >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
```

Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel`` functions if necessary:

```python
# Python 2
>>> idna.alabel(u'')
  'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)
++++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode
Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

    # Python 3
    >>> import idna
    >>> idna.encode(u'Königsgäßchen')
    ...
    idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
    >>> idna.encode('Königsgäßchen', uts46=True)
    b'xn--knigsgchen-b4a3dun'
    >>> print(idna.decode('xn--knigsgchen-b4a3dun'))
    königsgäßchen

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

Function calls from the Python built-in `encodings.idna` module are mapped to their IDNA 2008 equivalents using the `idna.compat` module. Simply substitute the `import` clause in your code to refer to the new module name.

Exceptions
----------
All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics
------------------------

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <http://iana.org/>.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.6+.

Testing
-------
The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, "Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>".

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna

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Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1114240575_1607457212.69/0/python-idna-2-6-orig-1-tar-gz/idna-2.6/PKG-INFO
* /opt/cola/permits/1114240575_1607457212.69/0/python-idna-2-6-orig-1-tar-gz/idna-2.6/idna.egg-info/PKG-INFO

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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[2]
if python_version < (2,6):
    raise SystemExit("Sorry, Python 2.6 or newer required")

package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1114240575_1607457212.69/0/python-idna-2.6-orig-1-tar-gz/idna-2.6/setup.py

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100.113~smi.22.06.10

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1.447 google-go-cmp 0.4.0

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// 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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1.453 prometheus-common 0.32.1

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* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/interface/BezierPatchMesh.h
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* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/varray.h
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/defines.h
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/myassert.h
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/mysetjmp.h
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libtess/priorityq-heap.c
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/arc.h
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    9.0.0/src/libnurbs/interface/glrenderer.cc
  * /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-
    9.0.0/src/libnurbs/nurbtess/directedLine.cc
  * /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-
    9.0.0/src/libnurbs/nurbtess/polyDBG.cc
  * /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-
    9.0.0/src/libnurbs/interface/bezierEval.cc

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* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/gridWrap.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/sampleMonoPoly.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/interface/ bezierPatchMesh.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/sampleCompBot.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/sampleCompRight.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/sampleComp.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/primitiveStream.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/rectBlock.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/polyUtil.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/polyUtil.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/monoChain.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurb tess/quick sort.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/interface/glinterface.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/interface/bezierPatch.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/searchTree.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/monoTriangulation.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/sampleCompTop.cc

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* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/mesher.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/coveandtiler.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/backend.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/trimvertpool.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/cachingeval.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/monotonizer.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/arcsorter.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/nurbstess.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/nurbsinterface.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/curvesub.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/mapdesc.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/glu-9.0.0/src/libnurbs/internals/uarray.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/libglu-9.0.0/src/libnurbs/internals/bin.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/libglu-9.0.0/src/libnurbs/internals/slicer.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/libglu-9.0.0/src/libnurbs/internals/knotvector.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/libglu-9.0.0/src/libnurbs/internals/flist.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/libglu-9.0.0/src/libnurbs/internals/curve.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/libglu-9.0.0/src/libnurbs/internals/tobezier.cc
* /opt/cola/permits/1173740786_1657859045.253643/0/libglu-9-0-0-orig-1-tar-gz/libglu-9.0.0/src/libnurbs/internals/renderhints.cc

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AC_PREREQ([2.60])
AC_INIT([glu],
         [9.0.0],
         [https://bugs.freedesktop.org/enter_bug.cgi?product=Mesa&component=GLU])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CANONICAL_HOST

AM_INIT_AUTOMAKE([dist-bzip2 foreign subdir-objects])

LT_PREREQ([2.2])
LT_INIT
AC_PROG_CPP
AC_PROG_CC
AC_PROG_CXX

m4_ifndef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

AC_ARG_ENABLE(debug,
   AS_HELP_STRING([--enable-debug],
   [Enable debugging information]),
   [CFLAGS="$CFLAGS -g -O0"
   CXXFLAGS="$CXXFLAGS -g -O0"],
   []
)

m4_ifndef([PKG_PROG_PKG_CONFIG],
   [m4_fatal([Could not locate the pkg-config autoconf macros. These are usually located in /usr/share/aclocal/pkg.m4. If your macros are in a different location, try setting the environment variable ACLOCAL=\"aclocal -I/other/macro/dir\" before running autoreconf.])]
)

AC_ARG_ENABLE(osmesa,
   AS_HELP_STRING([--enable-osmesa],
   [Enable use of OSMesa instead of libGL]),
   [OSMESA="$enableval"],
   [OSMESA=no])

if test "x$OSMESA" = "xyes"; then
   GLU_REQUIRES="osmesa"
   PKG_CHECK_MODULES(OSMESA, [osmesa], [], [
      AC_CHECK_LIB([OSMesa],
         [glBegin],
         [OSMESA_LIBS=-lOSMesa],
         AC_MSG_ERROR([OSMesa required])
      )
   ])
else
   GLU_REQUIRES="gl"
   PKG_CHECK_MODULES(GL, [gl], [], [
      AC_CHECK_HEADER([GL/gl.h],
         [],
         AC_MSG_ERROR([GL not found])
      ])
      AC_CHECK_LIB([GL],
         [glBegin],
         []
   ])

   AC_PROG_CC
   AC_PROG_CXX
   AC_PROG_CPP

   dnl Check for progs
   AC_PROG_CC
   AC_PROG_CXX

   dnl Enable quiet compiles on automake 1.11.
   m4_ifndef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

   AC_ARG_ENABLE(debug,
      AS_HELP_STRING([--enable-debug],
      [Enable debugging information]),
      [CFLAGS="$CFLAGS -g -O0"
      CXXFLAGS="$CXXFLAGS -g -O0"],
      []
   )

   m4_ifndef([PKG_PROG_PKG_CONFIG],
      [m4_fatal([Could not locate the pkg-config autoconf macros. These are usually located in /usr/share/aclocal/pkg.m4. If your macros are in a different location, try setting the environment variable ACLOCAL=\"aclocal -I/other/macro/dir\" before running autoreconf.])]
   )

   AC_ARG_ENABLE(osmesa,
      AS_HELP_STRING([--enable-osmesa],
      [Enable use of OSMesa instead of libGL]),
      [OSMESA="$enableval"],
      [OSMESA=no])

   if test "x$OSMESA" = "xyes"; then
      GLU_REQUIRES="osmesa"
      PKG_CHECK_MODULES(OSMESA, [osmesa], [], [
         AC_CHECK_LIB([OSMesa],
            [glBegin],
            [OSMESA_LIBS=-lOSMesa],
            AC_MSG_ERROR([OSMesa required])
         )
      ])
   else
      GLU_REQUIRES="gl"
      PKG_CHECK_MODULES(GL, [gl], [], [
         AC_CHECK_HEADER([GL/gl.h],
            [],
            AC_MSG_ERROR([GL not found])
         ])
         AC_CHECK_LIB([GL],
            [glBegin],
            []
      ])

   dnl Get the pkg-config definitions for libGL/OSMesa. We include a fallback
dnl path for implementations that don't provide a .pc file
   if test "x$OSMESA" = "xyes"; then
      GLU_REQUIRES="osmesa"
      PKG_CHECK_MODULES(OSMESA, [osmesa], [], [
         AC_CHECK_LIB([OSMesa],
            [glBegin],
            [OSMESA_LIBS=-lOSMesa],
            AC_MSG_ERROR([OSMesa required])
         )
      ])
   else
      GLU_REQUIRES="gl"
      PKG_CHECK_MODULES(GL, [gl], [], [
         AC_CHECK_HEADER([GL/gl.h],
            [],
            AC_MSG_ERROR([GL not found])
         ])
         AC_CHECK_LIB([GL],
            [glBegin],
            []
      ])

   dnl Check for progs
   AC_PROG_CC
   AC_PROG_CXX
   AC_PROG_CXX
[GL_LIBS=-lGL],
AC_MSG_ERROR([GL required])
)
fi
AC_SUBST([GLU_REQUIRES])
dnl Set up C warning and visibility flags.
if test "xSGCC" = xyes; then
    WARNCFLAGS="-Wall"
    # Enable -fvisibility=hidden if using a gcc that supports it
    save_CFLAGS="$CFLAGS"
    AC_MSG_CHECKING([whether $CC supports -fvisibility=hidden])
    VISIBILITY_CFLAGS="-fvisibility=hidden"
    CFLAGS="$CFLAGS $VISIBILITY_CFLAGS"
    AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),
        [VISIBILITY_CFLAGS=""; AC_MSG_RESULT([no])]);
    # Restore CFLAGS; VISIBILITY_CFLAGS are added to it where needed.
    CFLAGS=$save_CFLAGS
    if test "xSGXX" = xyes; then
        WARNCXXFLAGS="-Wall"
        # Enable -fvisibility=hidden if using a gcc that supports it
        save_CXXFLAGS="$CXXFLAGS"
        AC_MSG_CHECKING([whether $CXX supports -fvisibility=hidden])
        VISIBILITY_CXXFLAGS="-fvisibility=hidden"
        CXXFLAGS="$CXXFLAGS $VISIBILITY_CXXFLAGS"
        AC_LANG_PUSH([C++])
        AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),
            [VISIBILITY_CXXFLAGS=""; AC_MSG_RESULT([no])]);
        AC_LANG_POP([C++])
        # Restore CXXFLAGS; VISIBILITY_CXXFLAGS are added to it where needed.
        CXXFLAGS=$save_CXXFLAGS
    fi
else
    AC_CHECK_DECL([__SUNPRO_C], [SUNCC="yes"], [SUNCC="no"])
    if test "x$SUNCC" = "xyes"; then
        WARNCFLAGS="-v"
        WARNCXXFLAGS="-v"
    fi
    fi
AC_SUBST([WARNCFLAGS])
AC_SUBST([WARNCXXFLAGS])
AC_SUBST([VISIBILITY_CFLAGS])
AC_SUBST([VISIBILITY_CXXFLAGS])
AC_OUTPUT([
  Makefile
  glu.pc
])

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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/SslContext.java
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ipfilter/package-info.java
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*/opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/FlushConsolidationHandler.java
*/opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
*/opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
*/opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/traffic/package-info.java

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  jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
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  jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/pcap/TCPPacket.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
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  jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

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1.461 spring-cloud-starter-kubernetes-config

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1.464 x-net 0.0.0-20200707034311-ab3426394381

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1.465 libnlroute 3.2.29-0ubuntu3

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The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging of libnl1.

It was downloaded from https://github.com/thom311/libnl/releases

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1.466 go-redis-redis 6.15.9+incompatible

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1.467 argon2 0~20161029 1.1
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Argon2 reference source code package - reference C implementations

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* /opt/cola/permits/1305465787_1649753331.06/0/resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/bulkhead/monitoring/endpoint/package-info.java
* /opt/cola/permits/1305465787_1649753331.06/0/resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/ratelimiter/monitoring/endpoint/package-info.java
* /opt/cola/permits/1305465787_1649753331.06/0/resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/package-info.java
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* /opt/cola/permits/1305465787_1649753331.06/0/resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/UpdateState.java

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* /opt/cola/permits/1305465787_1649753331.06/0/resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/bulkhead/configuration/ThreadPoolBulkheadConfigurationProperties.java
* /opt/cola/permits/1305465787_1649753331.06/0/resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/retry/configuration/RetryConfigurationProperties.java
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Agreement version 2.4

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Version 3, 29 June 2007

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If such an object file uses only numerical parameters, data 
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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
September 29, 2017

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# means that e.g. 'FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with './').
#
# Don't put empty lines into this file!
#
.gitignore
#
built/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
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/ftrandom/ftrandom.c
#
# EOF

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1.476 libxcrypt 4.4.10-10ubuntu4
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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distlib has started off using some of the code from distutil2.

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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.

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.

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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 distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

Otherwise, if the work is a derivative of the Library, you may
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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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1.497 python-jsonpointer 1.10-1

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Julian Seward, jsward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.504 libdnet 1.12 7build1
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1.505 libvirt-daemon-system 4.0.0-
1ubuntu8.21
1.505.1 Available under license:

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1.510 containerd-fifo 1.0.0

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Version 2.1, February 1999

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1.524 openssl 1.0.2k

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Upstream Authors: Fabio Fiorina <fiorinaf@gnutls.org>
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1.532 libxcb-sync1 1.13-2~ubuntu18.04

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Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by
restricting functionality too much.

Installing
----------
Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
        <ul>
        {% for user in users %}
            <li><a href="{{ user.url }}">{{ user.username }}</a></li>
        {% endfor %}
        </ul>
    {% endblock %}

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
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- Test status: https://dev.azure.com/pallets/jinja/_build
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Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
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",
    provides_extra="i18n",
    requires_python=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*"
)

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import re

from setuptools import find_packages
from setuptools import setup

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    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]"]},
)

Found in path(s):
* /opt/cola/permits/1160876753_1620411588.74/0/jinja2-2.11.3-1.tar-gz/Jinja2-2.11.3/setup.py

1.534 opencontainers-image-spec 1.0.3-0.20211202183452-c5a74bcca799
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The End

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# PCG64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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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. 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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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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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
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-- Keir Fraser (on behalf of the Xen team)

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We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.550 python-lazy-object-proxy 1.7.1

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1.551 masterminds-goutils 1.1.0

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

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

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister
----------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.  
http://www.math.keio.ac.jp/matumoto/emt.html  
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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October 28, 1997
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Sam Lantinga(slouken@libsdl.org)
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Version 2.1, February 1999

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1.556 gopsutil 3.22.3

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1.558 aws-sdk-go-v2 1.16.2

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"  
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
"github.com/aws/smithy-go/middleware"  
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }
}
out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// * ProductSKU
// * Status
// * Fingerprint
// * IssuerName
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
  }
  if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
  }
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

name: License Scan

on: [pull_request]

jobs:
  licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.9]

steps:
- name: Checkout target
  uses: actions/checkout@v2
  with:
    path: sdkbase
    ref: ${{ github.base_ref }}
- name: Checkout this ref
  uses: actions/checkout@v2
  with:
    path: new-ref
    fetch-depth: 0
- name: Get Diff
  run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}${{ github.sha }} > refDiffFiles.txt
- name: Get Target Filesun: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
uses: actions/checkout@v2
with:
  repository: nexB/scancode-toolkit
  path: scancode-toolkit
  fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
uses: actions/setup-python@v2
with:
  python-version: ${{ matrix.python-version }}

# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt

# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) { if params == nil { params = &CheckInLicenseInput{} } result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, c.addOperationCheckInLicenseMiddlewares) if err != nil {

---
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    return nil, err
}

type CheckInLicenseInput struct {
    LicenseConsumptionToken *string
    Beneficiary *string
}

type CheckInLicenseOutput struct {
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    return nil, err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:      region,
package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
    c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string
type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string) *awsMiddleware.RegisterServiceMetadata {
    return &awsMiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "DisassociateLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
  if params == nil {
    params = &GetLicenseInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

    return err
}
```go
} if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
} if err = addRetryMiddlewares(stack, options); err != nil {
    return err
} if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
} if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
} if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
} if err = addClientUserAgent(stack); err != nil {
    return err
} if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
} if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
} if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
} if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
} if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
} if err = addResponseErrorMiddleware(stack); err != nil {
    return err
} if err = addRequestResponseLogging(stack, options); err != nil {
    return err
} return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
```
package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {
    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
}
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde

} type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

cfunc (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {

if params == nil {
  params = &CheckoutLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
  return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil


type CheckoutLicenseInput struct {

  // Checkout type.
  //
  // This member is required.
  CheckoutType types.CheckoutType

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // License entitlements.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Key fingerprint identifying the license.
  //
  // This member is required.
  KeyFingerprint *string

  // Product SKU.
  //
  // This member is required.
  ProductSKU *string

  // License beneficiary.
  Beneficiary *string

  // Node ID.
  NodeId *string

}
type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the checkout license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err := awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err := smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err := addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err := v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err := addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err := addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err := awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err := awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err := addClientUserAgent(stack); err != nil {
    return err
}
if err := smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err := smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err := addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err := stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err := addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err := addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err := addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) { 
    if params == nil { 
        params = &ListLicensesInput{} 
    } 

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, 
        c.addOperationListLicensesMiddlewares) 
    if err != nil { 
        return nil, err 
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata 
    return out, nil 
} 

type ListLicensesInput struct {
// Filters to scope the results. The following filters are supported:
// *
// Beneficiary
// *
// * ProductSKU
// *
// * Fingerprint
// *
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }
    }
    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.

}
LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
}


if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:      region,
        ServiceID:   ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana Enterprise incurs additional fees. For more information, see Upgrade a workspace (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {
    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string
}

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type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}
return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "AssociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
    c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
// This member is required.
HomeRegion *string

// License issuer.

// This member is required.
Issuer *types.Issuer

// License name.

// This member is required.
LicenseName *string

// Product name.

// This member is required.
ProductName *string

// Product SKU.

// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.

// This member is required.
Validity *typesDatetimeRange

// Information about the license.
LicenseMetadata []typesMetadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata


func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

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1.559 json 2.1.0
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Internet Engineering Task Force (IETF) T. Bray, Ed.
Request for Comments: 7159 Google, Inc.
Obsoletes: 4627, 7158 March 2014
The JavaScript Object Notation (JSON) Data Interchange Format

Abstract

JavaScript Object Notation (JSON) is a lightweight, text-based, language-independent data interchange format. It was derived from the ECMAScript Programming Language Standard. JSON defines a small set of formatting rules for the portable representation of structured data.

This document removes inconsistencies with other specifications of JSON, repairs specification errors, and offers experience-based interoperability guidance.

Status of This Memo

This is an Internet Standards Track document.

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1. Introduction

JavaScript Object Notation (JSON) is a text format for the serialization of structured data. It is derived from the object literals of JavaScript, as defined in the ECMAScript Programming Language Standard, Third Edition [ECMA-262].

JSON can represent four primitive types (strings, numbers, booleans,
and null) and two structured types (objects and arrays).

A string is a sequence of zero or more Unicode characters [UNICODE]. Note that this citation references the latest version of Unicode rather than a specific release. It is not expected that future changes in the UNICODE specification will impact the syntax of JSON.

An object is an unordered collection of zero or more name/value pairs, where a name is a string and a value is a string, number, boolean, null, object, or array.

An array is an ordered sequence of zero or more values.
1.3. Introduction to This Revision

In the years since the publication of RFC 4627, JSON has found very wide use. This experience has revealed certain patterns, which, while allowed by its specifications, have caused interoperability problems.

Also, a small number of errata have been reported (see RFC Errata IDs 607 [Err607] and 3607 [Err3607]).

This document's goal is to apply the errata, remove inconsistencies with other specifications of JSON, and highlight practices that can lead to interoperability problems.

2. JSON Grammar

A JSON text is a sequence of tokens. The set of tokens includes six structural characters, strings, numbers, and three literal names.

A JSON text is a serialized value. Note that certain previous specifications of JSON constrained a JSON text to be an object or an array. Implementations that generate only objects or arrays where a JSON text is called for will be interoperable in the sense that all implementations will accept these as conforming JSON texts.

\[
\text{JSON-text} = \text{ws value ws}
\]

These are the six structural characters:

begin-array = ws %x5B ws ; [ left square bracket

begin-object = ws %x7B ws ; { left curly bracket

end-array = ws %x5D ws ; ] right square bracket

end-object = ws %x7D ws ; } right curly bracket

name-separator = ws %x3A ws ; : colon

value-separator = ws %x2C ws ; , comma
Insignificant whitespace is allowed before or after any of the six structural characters.

\[
ws = ^(\%x20 / ; Space \\
\%x09 / ; Horizontal tab \\
\%x0A / ; Line feed or New line \\
\%x0D ) ; Carriage return
\]

3. Values

A JSON value MUST be an object, array, number, or string, or one of the following three literal names:

false null true

The literal names MUST be lowercase. No other literal names are allowed.

\[
value = false / null / true / object / array / number / string
\]

false = %x66.61.6c.73.65 ; false
null = %x6e.75.6c.6c ; null
true = %x74.72.75.65 ; true

4. Objects

An object structure is represented as a pair of curly brackets surrounding zero or more name/value pairs (or members). A name is a string. A single colon comes after each name, separating the name from the value. A single comma separates a value from a following name. The names within an object SHOULD be unique.

\[
object = begin-object [ member *( value-separator member ) ]
end-object
\]
member = string name-separator value

An object whose names are all unique is interoperable in the sense that all software implementations receiving that object will agree on the name-value mappings. When the names within an object are not unique, the behavior of software that receives such an object is unpredictable. Many implementations report the last name/value pair only. Other implementations report an error or fail to parse the object, and some implementations report all of the name/value pairs, including duplicates.

JSON parsing libraries have been observed to differ as to whether or not they make the ordering of object members visible to calling software. Implementations whose behavior does not depend on member ordering will be interoperable in the sense that they will not be affected by these differences.

5. Arrays

An array structure is represented as square brackets surrounding zero or more values (or elements). Elements are separated by commas.

array = begin-array [ value *( value-separator value ) ] end-array

There is no requirement that the values in an array be of the same type.

6. Numbers

The representation of numbers is similar to that used in most programming languages. A number is represented in base 10 using decimal digits. It contains an integer component that may be prefixed with an optional minus sign, which may be followed by a fraction part and/or an exponent part. Leading zeros are not allowed.

A fraction part is a decimal point followed by one or more digits.
Numeric values that cannot be represented in the grammar below (such as Infinity and NaN) are not permitted.

number = [ minus ] int [ frac ] [ exp ]

decimal-point = %x2E ; .
digit1-9 = %x31-39 ; 1-9
e = %x65 / %x45 ; e E

exp = e [ minus / plus ] 1*DIGIT

frac = decimal-point 1*DIGIT

int = zero / ( digit1-9 *DIGIT )

minus = %x2D ; -

plus = %x2B ; +

zero = %x30 ; 0

This specification allows implementations to set limits on the range and precision of numbers accepted. Since software that implements IEEE 754-2008 binary64 (double precision) numbers [IEEE754] is generally available and widely used, good interoperability can be achieved by implementations that expect no more precision or range than these provide, in the sense that implementations will approximate JSON numbers within the expected precision. A JSON number such as 1E400 or 3.141592653589793238462643383279 may indicate potential interoperability problems, since it suggests that the software that created it expects receiving software to have greater capabilities for numeric magnitude and precision than is widely available.

Note that when such software is used, numbers that are integers and are in the range \([-2^{*}53)+1, (2^{*}53)-1\] are interoperable in the sense that implementations will agree exactly on their numeric values.
7. Strings

The representation of strings is similar to conventions used in the C family of programming languages. A string begins and ends with quotation marks. All Unicode characters may be placed within the quotation marks, except for the characters that must be escaped: quotation mark, reverse solidus, and the control characters (U+0000 through U+001F).

Any character may be escaped. If the character is in the Basic Multilingual Plane (U+0000 through U+FFFF), then it may be represented as a six-character sequence: a reverse solidus, followed by the lowercase letter u, followed by four hexadecimal digits that encode the character's code point. The hexadecimal letters A though F can be upper or lower case. So, for example, a string containing only a single reverse solidus character may be represented as "\u005C".

Alternatively, there are two-character sequence escape representations of some popular characters. So, for example, a string containing only a single reverse solidus character may be represented more compactly as "\\".

To escape an extended character that is not in the Basic Multilingual Plane, the character is represented as a 12-character sequence, encoding the UTF-16 surrogate pair. So, for example, a string containing only the G clef character (U+1D11E) may be represented as "\uD834\uDD1E".

```
string = quotation-mark *char quotation-mark

char = unescaped /
   escape ( %x22 / ; " quotation mark U+0022
          %x5C / ; \ reverse solidus U+005C
          %x2F / ; / solids U+002F
          %x62 / b backspace U+0008
          %x66 / f form feed U+000C
          %x6E / n line feed U+000A
          %x72 / r carriage return U+000D
          %x74 / t tab U+0009
          %x75 4HEXDIG ) ; uXXXX U+XXXX
```
8. String and Character Issues

8.1. Character Encoding

JSON text SHALL be encoded in UTF-8, UTF-16, or UTF-32. The default encoding is UTF-8, and JSON texts that are encoded in UTF-8 are interoperable in the sense that they will be read successfully by the maximum number of implementations; there are many implementations that cannot successfully read texts in other encodings (such as UTF-16 and UTF-32).

Implementations MUST NOT add a byte order mark to the beginning of a JSON text. In the interests of interoperability, implementations that parse JSON texts MAY ignore the presence of a byte order mark rather than treating it as an error.

8.2. Unicode Characters

When all the strings represented in a JSON text are composed entirely of Unicode characters [UNICODE] (however escaped), then that JSON text is interoperable in the sense that all software implementations that parse it will agree on the contents of names and of string values in objects and arrays.

However, the ABNF in this specification allows member names and string values to contain bit sequences that cannot encode Unicode characters; for example, \uDEAD (a single unpaired UTF-16 surrogate). Instances of this have been observed, for example, when a library truncates a UTF-16 string without checking whether the truncation split a surrogate pair. The behavior of software that receives JSON texts containing such values is unpredictable; for example, implementations might return different values for the length of a string value or even suffer fatal runtime exceptions.

8.3. String Comparison
Software implementations are typically required to test names of object members for equality. Implementations that transform the textual representation into sequences of Unicode code units and then perform the comparison numerically, code unit by code unit, are interoperable in the sense that implementations will agree in all cases on equality or inequality of two strings. For example, implementations that compare strings with escaped characters unconverted may incorrectly find that "a\b" and "a\u005Cb" are not equal.

9. Parsers

A JSON parser transforms a JSON text into another representation. A JSON parser MUST accept all texts that conform to the JSON grammar. A JSON parser MAY accept non-JSON forms or extensions.

An implementation may set limits on the size of texts that it accepts. An implementation may set limits on the maximum depth of nesting. An implementation may set limits on the range and precision of numbers. An implementation may set limits on the length and character contents of strings.

10. Generators

A JSON generator produces JSON text. The resulting text MUST strictly conform to the JSON grammar.

11. IANA Considerations

The MIME media type for JSON text is application/json.

Type name: application

Subtype name: json

Required parameters: n/a
Optional parameters: n/a

Encoding considerations: binary

Security considerations: See [RFC7159], Section 12.

Interoperability considerations: Described in [RFC7159]

Published specification: [RFC7159]

Applications that use this media type:
JSON has been used to exchange data between applications written in all of these programming languages: ActionScript, C, C#, Clojure, ColdFusion, Common Lisp, E, Erlang, Go, Java, JavaScript, Lua, Objective CAML, Perl, PHP, Python, Rebol, Ruby, Scala, and Scheme.
Note: No "charset" parameter is defined for this registration. Adding one really has no effect on compliant recipients.

12. Security Considerations

Generally, there are security issues with scripting languages. JSON is a subset of JavaScript but excludes assignment and invocation.

Since JSON's syntax is borrowed from JavaScript, it is possible to use that language's "eval()" function to parse JSON texts. This generally constitutes an unacceptable security risk, since the text could contain executable code along with data declarations. The same consideration applies to the use of eval()-like functions in any other programming language in which JSON texts conform to that language's syntax.

13. Examples

This is a JSON object:

```json
{
    "Image": {
        "Width": 800,
        "Height": 600,
        "Title": "View from 15th Floor",
        "Thumbnail": {
            "Url": "http://www.example.com/image/481989943"
        }
    }
}
```
Its Image member is an object whose Thumbnail member is an object and whose IDs member is an array of numbers.

This is a JSON array containing two objects:

```
[
  {
    "precision": "zip",
    "Latitude": 37.7668,
    "Longitude": -122.3959,
    "Address": "",
    "City": "SAN FRANCISCO",
    "State": "CA",
    "Zip": "94107",
    "Country": "US"
  },
  {
    "precision": "zip",
    "Latitude": 37.371991,
    "Longitude": -122.026020,
    "Address": "",
    "City": "SUNNYVALE",
    "State": "CA",
    "Zip": "94085",
    "Country": "US"
  }
]
```

Here are three small JSON texts containing only values:

"Hello world!"
14. Contributors

RFC 4627 was written by Douglas Crockford. This document was constructed by making a relatively small number of changes to that document; thus, the vast majority of the text here is his.

15. References

15.1. Normative References


15.2. Informative References


Appendix A. Changes from RFC 4627

This section lists changes between this document and the text in RFC 4627.

- Changed the title and abstract of the document.
- Changed the reference to [UNICODE] to be not version specific.
- Added a "Specifications of JSON" section.
- Added an "Introduction to This Revision" section.
- Changed the definition of "JSON text" so that it can be any JSON value, removing the constraint that it be an object or array.
- Added language about duplicate object member names, member ordering, and interoperability.
- Clarified the absence of a requirement that values in an array be of the same JSON type.
- Applied erratum #607 from RFC 4627 to correctly align the artwork for the definition of "object".
- Changed "as sequences of digits" to "in the grammar below" in the "Numbers" section, and made base-10-ness explicit.
- Added language about number interoperability as a function of IEEE754, and added an IEEE754 reference.
- Added language about interoperability and Unicode characters and about string comparisons. To do this, turned the old "Encoding" section into a "String and Character Issues" section, with three subsections: "Character Encoding", "Unicode Characters", and
"String Comparison".

- Changed guidance in the "Parsers" section to point out that implementations may set limits on the range "and precision" of numbers.

- Updated and tidied the "IANA Considerations" section.

- Made a real "Security Considerations" section and lifted the text out of the previous "IANA Considerations" section.

<table>
<thead>
<tr>
<th>Bray</th>
<th>Standards Track</th>
<th>[Page 15]</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFC 7159</td>
<td>JSON</td>
<td>March 2014</td>
</tr>
</tbody>
</table>

- Applied erratum #3607 from RFC 4627 by removing the security consideration that begins "A JSON text can be safely passed" and the JavaScript code that went with that consideration.

- Added a note to the "Security Considerations" section pointing out the risks of using the "eval()" function in JavaScript or any other language in which JSON texts conform to that language's syntax.

- Added a note to the "IANA Considerations" clarifying the absence of a "charset" parameter for the application/json media type.

- Changed "100" to 100 and added a boolean field, both in the first example.

- Added examples of JSON texts with simple values, neither objects nor arrays.

- Added a "Contributors" section crediting Douglas Crockford.

- Added a reference to RFC 4627.

- Moved the ECMAScript reference from Normative to Informative and updated it to reference ECMAScript 5.1, and added a reference to ECMA 404.

Author's Address
Bray                         Standards Track                   [Page 16]

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/references/rfc7159.txt
No license file was found, but licenses were detected in source scan.

* Distributed under the Ruby license: https://www.ruby-lang.org/en/about/license.txt

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/java/src/json/ext/Parser.rl
No license file was found, but licenses were detected in source scan.

/*
 * Copyright 2001-2004 Unicode, Inc.
 * 
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 * 
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* remains attached.
*/

Found in path(s):
* /opt/cola/permits/1112082490_1607034739.82/0/flori-json-v2-1-0-0-g4688035-tar-gz/flori-json-4688035/ext/json/ext/generator/generator.c

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

# Changes

## 2017-04-18 (2.1.0)
* Allow passing of `decimal_class` option to specify a class as which to parse
  JSON float numbers.

## 2017-03-23 (2.0.4)
* Raise exception for incomplete unicode surrogates/character escape
  sequences. This problem was reported by Daniel Gollahon (dgollahon).
* Fix arbitrary heap exposure problem. This problem was reported by Ahmad
  Sherif (ahmadsherif).

## 2017-01-12 (2.0.3)
* Set `required_ruby_version` to 1.9
* Some small fixes

## 2016-07-26 (2.0.2)
* Specify `required_ruby_version` for json\_pure.
* Fix issue #295 failure when parsing frozen strings.

## 2016-07-01 (2.0.1)
* Fix problem when requiring json\_pure and Parser constant was defined top
  level.
* Add `RB_GC_GUARD` to avoid possible GC problem via Pete Johns.
* Store `current_nesting` on stack by Aaron Patterson.

## 2015-09-11 (2.0.0)
* Now complies to newest JSON RFC 7159.
* Implements compatibility to ruby 2.4 integer unification.
* Drops support for old rubies whose life has ended, that is rubies < 2.0.
  Also see https://www.ruby-lang.org/en/news/2014/07/01/eol-for-1-8-7-and-1-9-2/
* There were still some mentions of dual GPL licensing in the source, but JSON
has just the Ruby license that itself includes an explicit dual-licensing
clause that allows covered software to be distributed under the terms of
the Simplified BSD License instead for all ruby versions >= 1.9.3. This is
however a GPL compatible license according to the Free Software Foundation.
I changed these mentions to be consistent with the Ruby license setting in
the gemspec files which were already correct now.

## 2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.

## 2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of
  `JSON.dump_default_options`.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing
  `space_before` accessor in generator.
* Performance on Jruby improved by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io>
  and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

## 2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

## 2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre
  Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with
  -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to `JSON::GenericObject` to make
  serialize :some_attribute, `JSON::GenericObject`
  work in Rails active models for convenient `SomeModel#some_attribute.foo.bar`
  access to serialised JSON data.

## 2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and
  `JSON::GenericObject`. It should not be possible to create additions unless
explicitly requested by setting the create_additions argument to true or
using the JSON.load/dump interface. If `JSON::GenericObject` is supposed to
be automatically deserialised, this has to be explicitly enabled by
setting

```
JSON::GenericObject.json_creatable = true
```

as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155
  provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.
## 2012-11-29 (1.7.6)
* Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.

## 2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

## 2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

## 2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

## 2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

## 2012-04-28 (1.7.1)
* Some small fixes for building

## 2012-04-28 (1.7.0)
* Add `JSON::GenericObject` for method access to objects transmitted via JSON.

## 2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

## 2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enebo@gmail.com>), should fix https://github.com/flori/json/issues/issue/119.
* Fix https://github.com/flori/json/issues#issue/117

## 2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda <bkabrua@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and developing a patch fix.

## 2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
  * Support `object_class`/`array_class` with duck typed hash/array.

## 2011-12-01 (1.6.3)
* Let `JSON.load('')` return nil as well to make mysql text columns (default to `''`) work better for serialization.

## 2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in `quirks_mode`.
* Make JSON.dump and JSON.load methods better cooperate with Rails’ serialize method. Just use:
  ```ruby
serialize :value, JSON
  ```
* Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in:
  https://github.com/flori/json/pull/103

## 2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.

## 2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.

## 2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbt.net> that fixes garbage collection problem reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

## 2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add `as_json` methods in json/add/core, so rails can create its json objects the new way.

## 2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gems specs for json and json\_pure.
* Fix bug in jruby pretty printing.
* Fix bug in `object_class` and `array_class` when inheriting from Hash or Array.

## 2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue https://github.com/flori/json/issues#issue/54.

## 2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz <dev@mernen.com>.
* Output full exception message of `deep_const_get` to aid debugging.
* Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.

## 2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23, always create a new object from the state prototype.
* Made pure and ext api more similar again.

## 2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This should reduce problems with `to_json` method definitions that only have one argument.
* Some fixes in the state objects and additional tests.

## 2010-08-06 (1.4.4)

## 2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by electronicwhisper@github. Thx!

## 2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
* Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of json_pure if extensiontask is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
* Applied 993f261ccbf8f911d2ae57e9db48ec7acd0187283 patch from josh@github.

## 2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM being different on 32bit/64bit architectures.

## 2010-04-23 (1.4.0)
* Major speed improvements and building with simplified directory/file-structure.
* Extension should at least be comapatible with MRI, YARV and Rubinius.

## 2010-04-07 (1.2.4)
* Triger const_missing callback to make Rails' dynamic class loading work.

## 2010-03-11 (1.2.3)
* Added a `State#[]` method which returns an attribute's value in order to
increase duck type compatibility to Hash.

## 2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible to Rubinius.

## 2009-11-25 (1.2.1)
* Added `:symbolize_names` option to Parser, which returns symbols instead of strings in object names/keys.

## 2009-10-01 (1.2.0)
* `fast_generate` now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

## 2009-08-23 (1.1.9)
* Added forgotten main doc file `extra_rdoc_files`.

## 2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Finally got around to avoid the rather paranoid escaping of ?/ characters in the generator's output. The parsers aren't affected by this change.
Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

## 2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue.
Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

## 2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

## 2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler
## 2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure variant.

## 2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.
* Some minor changes.

## 2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

## 2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a `JSON.parse!` method without depth checking for people who like danger.
* Made generate and `pretty_generate` methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN,
Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the ‘max_nesting’ feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

## 2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by `\` as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
* Extended license to Ruby License, which includes the GPL.
* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

## 2007-05-09 (1.0.4)
* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

## 2007-03-24 (1.0.3)
* Improved performance of pure variant a bit.
* The ext variant of this release supports the mswin32 platform. Ugh!

## 2007-03-24 (1.0.2)
* Ext Parser didn’t parse 0e0 correctly into 0.0: Fixed!

## 2007-03-24 (1.0.1)
* Forgot some object files in the build dir. I really like that - not!

## 2007-03-24 (1.0.0)
* Added C implementations for the JSON generator and a ragel based JSON parser in C.
* Much more tests, especially fixtures from json.org.
* Further improved conformance to RFC4627.

## 2007-02-09 (0.4.3)
* Conform more to RFC4627 for JSON: This means JSON strings
now always must contain exactly one object `"{ ... }"` or array `"[ ... ]"` in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby (`\t\r\n`), and there are differences in floats and integers (no octals or hexadecimal) as well.

* Added aliases generate and `pretty_generate` of `unparse` and `pretty_unparse`.
* Fixed a test case.
* Catch an `Iconv::InvalidEncoding` exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

## 2006-08-25 (0.4.2)
* Fixed a bug in handling solidi (/ characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

## 2006-02-06 (0.4.1)
* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

## 2005-09-23 (0.4.0)
* Initial Rubyforge Version

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1.560 attr 2.4.48-5

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1.566 libaio 0.3.110-5

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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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package spec

// License information for the exposed API.

//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.572 zlib 1.2.12

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* zlib.h -- interface of the 'zlib' general purpose compression library
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#
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
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src/pcf/pcfutil.c
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src/pcf/README
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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
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1.577 python-stdlib-extensions 3.6.9-1~18.04
1.577.1 Available under license:

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_types.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_dict.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_xrange.py
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
     | NAME [Details] [Repeater]
     | '(' Alternatives ')' [Repeater]
     | '|' Alternatives '|
   )
NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives '))

Repeater: '* | '+' | '{' NUMBER [',' NUMBER] '}

Details: '<' Alternatives '>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/PatternGrammar.txt
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/PatternGrammar.txt
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/PatternGrammar.txt

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/literals.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/parser.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/__init__.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/pgen.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/__init__.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/grammar.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/parser.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/pgen.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/literals.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/literals.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/conv.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/conv.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarbz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/parser.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/pgen.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/__init__.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/grammar.py

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```
file.write('License: %s
' % self.get_license())
```

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/dist.py

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```

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Modules/_tkinter.c
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Modules/_tkinter.c

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```
# version.
```

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9.orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/cygwinccompiler.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_wininst.py

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/driver.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/driver.py

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executable.

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/spawn.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/spawn.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/spawn.py

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('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'"
)'License: ' + self.distribution.get_license(),

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_rpm.py

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b2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_print.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/patcomp.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_long.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_exec.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/refactor.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/patcomp.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/refactor.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_apply.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/test_pytree.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pygram.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_print.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_repr.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pytree.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-b2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_exec.py
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src/udev/udev-builtin.c
src/udev/udev-builtin-net_id.c
src/udev/udev-builtin-net_setup_link.c
src/udev/udev-builtin-hwdb.c
src/udev/udev-builtin-btrfs.c
src/udev/udev-builtin-keyboard.c
src/udev/net/link-config.h
src/udev/net/link-config.c
src/udev/net/ethtool-util.c
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1.600 golang-lru 0.5.4

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

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github.com/pelletier/go-toml:

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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_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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1.613 lazy-object-proxy 1.3.1

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Source: https://github.com/ionelmc/python-lazy-object-proxy

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1.618 paramiko 2.11.0

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jar/io/github/resilience4j/reactor/bulkhead/operator/FluxBulkhead.java
* /opt/cola/permits/1323908981_1652092386.35/0/resilience4j-reactor-1-7-1-sources-
jar/io/github/resilience4j/reactor/circuitbreaker/operator/FluxCircuitBreaker.java
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<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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    </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:value-of select="holder"/>
                <xsl:value-of select="$isc.copyright.breakline"/>
            </xsl:for-each>
        </xsl:with-param>
    </xsl:call-template>
</xsl:variable>

---

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1.627 types-python-dateutil 2.8.18

1.627.1 Available under license:

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

Metadata-Version: 2.1
Name: types-python-dateutil
Version: 2.8.18
Summary: Typing stubs for python-dateutil
Home-page: https://github.com/python/typeshed
License: Apache-2.0 license
Project-URL: GitHub, https://github.com/python/typeshed
Project-URL: Chat, https://gitter.im/python/typing
Platform: UNKNOWN
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Classifier: Programming Language :: Python :: 3
## Typing stubs for python-dateutil

This is a PEP 561 type stub package for the `python-dateutil` package. It can be used by type-checking tools like mypy, PyCharm, pytype etc. to check code that uses `python-dateutil`. The source for this package can be found at https://github.com/python/typeshed/tree/master/stubs/python-dateutil. All fixes for types and metadata should be contributed there.

See https://github.com/python/typeshed/blob/master/README.md for more details. This package was generated from typeshed commit `89f4dee4522beaa967b47136c3f3d54f33ff0e1f`.

Found in path(s):
* /opt/cola/permits/1359015682_1657744212.0806923/0/types-python-dateutil-2.8.18-tar-gz/types-python-dateutil-2.8.18/PKG-INFO
* /opt/cola/permits/1359015682_1657744212.0806923/0/types-python-dateutil-2.8.18/types_python_dateutil.egg-info/PKG-INFO

1.628 pam 1.1.8-3.6ubuntu2.18.04.3

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------------------------------------------------------------------------Patch for Ubuntu bug #399071
Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.
Authors: Dustin Kirkland <kirkland@canonical.com>
Upstream status: Ubuntu-specific, maybe submit to Debian
Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}
+int display_legal(pam_handle_t *pamh)
+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+
PAM_MODUTIL_DEF_PRIVS(privs);
+
+
/* Get the password entry */
+
pwd = pam_modutil_getpwnam (pamh, user);
+
if (pwd != NULL)
+
{
+
if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+
pam_syslog(pamh, LOG_ERR,

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+ "Unable to change UID to %d temporarily\n",
+ pwd->pw_uid);
+ retval = PAM_SESSION_ERR;
+ goto finished;
+ }
+
+ if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+ goto finished;
+ if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+ goto finished;
+
+ if (stat(flag, &s) != 0)
+ {
+ display_file(pamh, "/etc/legal");
+ mkdir(dir, 0700);
+ f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+ S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+ if (f>=0) close(f);
+ }
+
+ finished:
+ if (pam_modutil_regain_priv(pamh, &privs)) {
+ pam_syslog(pamh, LOG_ERR,
+ "Unable to change UID back to %d\n", privs.old_uid);
+ retval = PAM_SESSION_ERR;
+ }
+
+ _pam_drop(flag);
+ _pam_drop(dir);
+
+ return retval;
+
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);
+
+ /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+ return retval;
}

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1.629 go-cleanhttp 0.5.2

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1.632 dill 0.3.4

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</plugin>
</plugins>
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</project>

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Manifest-Version: 1.0
Bundle-Description: Annotation for structural pattern matching.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: io.vavr.match
Built-By: daniel
Bnd-LastModified: 1564762773204
Bundle-ManifestVersion: 2
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.1.0.201810181252
Export-Package: io.vavr.match.annotation;version="0.10.2"
Bundle-Name: Vavr Match
Bundle-Version: 0.10.2
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_201

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* /opt/cola/permits/1135892294_1613626827.85/0/vavr-match-0-10-2-jar/META-INF/MANIFEST.MF

1.634 golang-genproto 0.0.0-20200526211855-cb27e3aa2013

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jar/netty_unix.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
  jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
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  jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
  jar/netty_unix_util.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/netty_unix_limits.h
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/netty_unix_util.c
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/netty_unix_limits.c
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/netty_unix_errors.c
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/io/netty/channel/unix/DatagramSocketChannel.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-jar/io/netty/channel/unix/DatagramSocketAddress.java
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1.jar/netty_unix_filedescriptor.h
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1.jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
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* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1.jar/netty_unix_buffer.c
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1.jar/io/netty/channel/unix/Buffer.java
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  jar/io/netty/channel/unix/DomainDatagramPacket.java
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  jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
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Manifest-Version: 1.0
Export-Package: io.jsonwebtoken;version="0.9.1",io.jsonwebtoken.lang;version="0.9.1"
Implementation-Title: JSON Web Token support for the JVM
Implementation-Version: 0.9.1
Built-By: lhazlewood
Tool: Bnd-3.3.0.021609221906
Bundle-Name: JSON Web Token support for the JVM
Created-By: Apache Maven Bundle Plugin
Implementation-URL: https://github.com/jwt/jjwt
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Implementation-Vendor-Id: io.jsonwebtoken
Bundle-Version: 0.9.1
Build-Jdk: 1.7.0_80
Bnd-LastModified: 1530831044984
Bundle-ManifestVersion: 2
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Bundle-SymbolicName: io.jsonwebtoken.jjwt
Import-Package: android.util;resolution:=optional,org.bouncycastle.jce
1.639 lvm2 2.02.176-4.1ubuntu3.18.04.3
1.639.1 Available under license :

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Version 2.1, February 1999

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1.656 libnl-cli-3-dev 3.2.29-0ubuntu3

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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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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A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.
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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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37. [40] David L. Mills <mills@udel.edu> Version 4 foundation,
    precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19,
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46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnittz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.671 liblz4-dev 0.0~r131-2ubuntu3.1

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Gocheck - A rich testing framework for Go

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1.679 libharfbuzz-dev 1.7.2-1ubuntu1

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version

 - trivial database library - private includes
 -
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

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

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

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

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

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repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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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
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e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
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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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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
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```
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<signature of Ty Coon>, 1 April 1989
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/
   doio.c
 */
/*
 *
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 *
 */

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The End

# To give due honour to those who have made Perl 5 what it is today,
# here are easily-from-changelogs-extractable people and their
# (hopefully) current and preferred email addresses from the commits.
# These people have either submitted patches or suggestions, or their bug
# reports or comments have inspired the appropriate patches. Corrections,
# additions, deletions welcome; send them to perlbug@perl.org, preferably
# as the output of diff(1), diff -u or diff -c between the original and a
# corrected version of this file.
#
# The use of this database for anything else than Perl development
# is strictly forbidden. (Passive distribution with the Perl source
# code kit is, of course, allowed.)
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# This should contain the preferred addresses. Alternate addresses are in
# Porting/checkAUTHORS.pl.
#
# After editing, please run: make test_porting
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SUMMARY OF CHANGES

The cPython 3.8.1 function `quote` from the `shlex` module (`shlex.quote()`) was backported in order to provide access
to this function in earlier versions of Python. The regular expression used to identify unsafe command line strings
was modified to:
_find_unsafe = re.compile(r'[^\w@%+=:,./-]').search

from:

_find_unsafe = re.compile(r'[^\w@%+=:,./-]', re.ASCII).search

in order to remove the re.ASCII flag which is not available in the Python 2.x re module

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    'freedreno_layout',
    [
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no.override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
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localtime.go, localtime_test.go:

Originals:
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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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STACK-LESS JUST-IN-TIME COMPILER

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

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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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[dialyzer]

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[edoc, syntax_tools]

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[wx webview2 loader on windows]

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    skip := map[string]bool{
        // Automatically generated.
        "bigtable/cmd/cbt/cbtdoc.go": true,
    }
    // BSD license, which is compatible, is embedded in the file.
    "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go": true,
    "third_party/pkgsite/print_type.go": true,
    "third_party/pkgsite/synopsis.go": true,
}

err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if err != nil {
        return err
    }
})
if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if skip[path] {
    return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

src = src[:300] // Ensure all of the sentinel values are at the top of the file.

    // Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
    }
}

    return nil
}
if err != nil {
    t.Fatal(err)
}

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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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```
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1.724 armon-go-metrics 0.3.9

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1.727 lz4 1.9.2 2ubuntu0.20.04.1

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

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both traditional one-character options, and GNU'ish --long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs

shopt-1.1.2.tar.gz

Platforms: Requires ANSI C-compiler.

Copying-policy: BeerWare: If you have the time and money, send me a bottle of your favourite beer. If not, just send me a mail or something. Copy and use as you wish; just leave the author's name where you find it.

1.730 jakarta-annotation-api 1.3.5

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 */

/* checkTag : validation tool for libzstd
 * command :
 * $ ./checkTag tag
 * checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
 * The tag is then compared to zstd version number.
 * They are compatible if first 3 digits are identical.
 * Anything beyond that is free, and doesn't impact validation.
 * Example : tag v1.8.1.2 is compatible with version 1.8.1
 * When tag and version are not compatible, program exits with error code 1.
 * When they are compatible, it exists with a code 0.
 * checkTag is intended to be used in automated testing environment.
 */

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1.737 xz 5.2.4 1ubuntu1.1

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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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1.740 consul 1.12.0
1.740.1 Available under license:
<div ...
attributes
class="consul-intention-permission-header-form"
>
<FormGroup
   @name={{name}}
as |group|>

   {{yield (hash
      submit=(action 'submit' changeset)
      reset=(action 'reset' changeset)

      isDirty=(and changeset.isValid changeset.isDirty)
      changeset=changeset
   )}}

</fieldset>
</div>
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   @type="select"
as |el|>
   <el.Label>Header type</el.Label>
   <PowerSelect
      @options={{headerTypes}}
      @selected={{headerType}}
      @onChange={{action 'change' 'HeaderType' changeset}} as |Type|
         {{get headerLabels Type}}
   </PowerSelect>
</group.Element>
The `/operator/license` endpoint allows for retrieving the Consul Enterprise License.

---

# License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api-docs/features/blocking), [consistency modes](/api-docs/features/consistency), [agent caching](/api-docs/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

The corresponding CLI command is `consul license get`.

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api-docs/features/blocking), [consistency modes](/api-docs/features/consistency), [agent caching](/api-docs/features/caching), and [required ACLs](/api-docs/authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
<td></td>
</tr>
</tbody>
</table>
The corresponding CLI command is `consul license put`.

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```shell-session
$ curl
    --request PUT
    --data @consul.license
    http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
    "Valid": true,
    "License": {
        "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
        "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
        "installation_id": "*",
        "issue_time": "2018-05-21T20:03:35.911567355Z",
        "start_time": "2018-05-21T04:00:00Z",
        "expiration_time": "2019-05-22T03:59:59.999Z",
        "product": "consul",
        "flags": {
            "package": "premium"
        },
        "features": [
            "Automated Backups",
            "Automated Upgrades",
            "Enhanced Read Scalability",
            "Network Segments",
            "Redundancy Zone",
            "Advanced Network Federation"
        ],
        "temporary": false
    }
}
```
## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for blocking queries[/api-docs/features/blocking], consistency modes[/api-docs/features/consistency], agent caching[/api-docs/features/caching], and required ACLs[/api#authentication].

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

The corresponding CLI command is `consul license reset`[/commands/license#reset].

### Parameters

- `-dc` `(string: "")` - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
  "Valid": true,
  "License": {
```
<input type="radio" name="Action" value={{intent}} checked={{if (eq changeset.Action intent) 'checked'}} onchange={{action (changeset-set changeset 'Action') value="target.value"}} />
</label>
{/each}]
</div>
</div>
</fieldset>

<fieldset>
<header>
<h2>Path</h2>
</header>
<div>
<group.Element
@name="PathType"
@type="select"
as |el|>
<el.Label>
Path type
</el.Label>
<PowerSelect
@options={{pathTypes}}
@selected={{pathType}}
@onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
{{get pathLabels Type}}
</PowerSelect>
</group.Element>

{{#if shouldShowPathField}}
<group.Element
@name="Path"
@error={{changeset-get changeset 'error.HTTP.Path'}}
as |el|>
{{get pathLabels pathType}}
</el.Label>
<el.Text
@value={{changeset-get changeset 'HTTP.Path'}}
oninput={{action 'change' 'HTTP.Path' changeset}} />
<State @state={{el.state}} @matches="error">
<el.Error
{{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}

Open Source Used In 5GaaS Edge 9.70 8584
Path Regex should not be blank
{{else}}
Path should begin with a '/'
{{/if}}
</el.Error>
</State>
</group.Element>
{{/if}}
</div>
</fieldset>

<fieldset>
<h2>Methods</h2>
<div class="type-toggle">
<span>All methods are applied by default unless specified</span>
<group.Element
@name="allMethods"
as |el|>
<el.Checkbox
checked={{if allMethods 'checked'}}
onchange={{action 'change' 'allMethods' changeset}}
/>
<el.Label>
All Methods
</el.Label>
</group.Element>
</div>

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
{{#each methods as |method|}}
<label class="type-checkbox">
<input
type="checkbox"
name="method"
value={{method}}
checked={{if (contains method changeset.HTTP.Methods) 'checked'}}
onchange={{action 'change' 'method' changeset}}
/>
<span>{{method}}</span>
</label>
{{/each}}
</div>
{{/if}}
</fieldset>


<h2>Headers</h2>

<Consul::Intention::Permission::Header::List
  @items={{changeset-get changeset 'HTTP.Header'}}
  @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as [headerList]>
</Consul::Intention::Permission::Header::List>

<Consul::Intention::Permission::Header::Form
  @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as [headerForm]>
  <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
</Consul::Intention::Permission::Header::Form>

<button
  data-test-add-header
type="button"
class="type-submit"
disabled={{if (not this.headerForm.isDirty) 'disabled'}}
onclick={{action this.headerForm.submit}}>
  Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
</button>

<button
type="button"
class="type-cancel"
onclick={{action this.headerForm.reset}}>
  Cancel
</button>

</fieldset>
</FormGroup>
</div>

.consul-intention-permission-form {
  h2 {
    padding-top: 1.4em;
    margin-top: 0.2em;
    margin-bottom: 0.6em;
  }
  .consul-intention-permission-header-form {
    margin-top: 10px;
  }
  fieldset:nth-child(2) > div,
  .consul-intention-permission-header-form fieldset > div {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
  }
The MIT License (MIT)

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<a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
{{t "components.consul.intention.notice.permissions.footer"}}
</a>
The MIT License (MIT)

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# Consul Enterprise License

## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

**Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the `license_path` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability
to retrieve the license automatically under specific circumstances.

### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn’t need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the `start_join` or `retry_join` configurations. If those are both unset or no `agent` token is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

---

```
@import './skin';
@import './layout';

layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
  Configuring the Consul Helm chart to use an enterprise license stored in Vault.
```

## Prerequisites

Prior to setting up the data integration between Vault and Consul on Kubernetes, you will need to have:

1. Read and completed the steps in the [Systems Integration](/docs/k8s/installation/vault/systems-integration) section of [Vault as a Secrets Backend](/docs/k8s/installation/vault).
2. Read the [Data Integration Overview](/docs/k8s/installation/vault/data-integration) section of [Vault as a Secrets Backend].
## Overview
To use an enterprise license stored in Vault, we will follow the steps outlined in the [Data Integration](https://docs/k8s/installation/vault/data-integration) section:

### One time setup in Vault
1. Store the secret in Vault.
2. Create a Vault policy that authorizes the desired level of access to the secret.

### Setup per Consul datacenter
1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
2. Configure the Vault Kubernetes auth role in the Consul on Kubernetes helm chart.

## One time setup in Vault
### Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put secret/consul/license key="<enterprise license>"
```

### Create a Vault policy that authorizes the desired level of access to the secret

-> **Note:** The secret path referenced by the Vault Policy below will be your `global.enterpriseLicense.secretName` Helm value.

Next, you will need to create a policy that allows read access to this secret:

```
# HCL
path "secret/data/consul/license" {
  capabilities = ["read"]
}
```

Apply the Vault policy by issuing the `vault write` CLI command:

```
$ vault policy write license-policy license-policy.hcl
```

## Setup per Consul datacenter
Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
    bound_service_account_names=<Consul server service account> \
    bound_service_account_namespaces=<Consul installation namespace> \
    policies=license-policy \
    ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
    bound_service_account_names=<Consul client service account> \
    bound_service_account_namespaces=<Consul installation namespace> \
    policies=license-policy \
    ttl=1h
```

To find out the service account names of the Consul server and client, you can run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
  ```shell-session
  $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul
  ```

- Generate Consul client service account name
  ```shell-session
  $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul
  ```

Configure the Vault Kubernetes auth role in the Consul on Kubernetes helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to use the enterprise enterprise license in Vault:

```yaml
---
secretsBackend:
  vault:
    enabled: true
    consulServerRole: consul-server
    consulClientRole: consul-client
```
enterpriseLicense:
  secretName: secret/data/consul/enterpriselicense
  secretKey: key
```
</CodeBlockConfig>

Note that `global.enterpriseLicense.secretName` is the path of the secret in Vault. This should be the same path as the one you included in your Vault policy. `global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same as the key you passed when creating the enterprise license secret in Vault.

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
  @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
  @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
  @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
  @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
  @extend %pill-deny;
}

---
layout: commands
page_title: 'Commands: License'
description: >
The license command provides a datacenter-level view of the Consul Enterprise license.

---

# Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](/docs/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

```
Usage: consul license <subcommand> [options] [args]

This command has subcommands for managing the Consul Enterprise license
Here are some simple examples, and more detailed examples are
available in the subcommands or the documentation.

Install a new license from a file:

    $ consul license put @consul.license

Install a new license from stdin:

    $ consul license put -

Install a new license from a string:

    $ consul license put "<license blob>"

Retrieve the current license:

    $ consul license get

Inspect a license:

    $ consul license inspect "<path to license file>"

Reset the current license:

    $ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
get    Get the active license
inspect Inspect a signed license
put    Puts a new license in the datacenter
reset   Resets the license in the datacenter
```

## inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```bash
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```bash
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```bash
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
  Global Visibility, Routing and Scale
  Governance and Policy
Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
  Namespaces
  SSO
  Audit Logging
  Admin Partitions
License is valid

...

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: `[/v1/operator/license](/api-docs/operator/license#updating-the-consul-license)`

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/api#authentication). Configuration of [blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

<table>
<thead>
<tr>
<th>ACL Required</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>operator:write</code></td>
<td></td>
</tr>
</tbody>
</table>

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c15f2f1
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
   Automated Backups
   Automated Upgrades
   Enhanced Read Scalability
   Network Segments
   Redundancy Zone
   Advanced Network Federation
```

```text
```
## get

Corresponding HTTP API Endpoint: 

```
[GET] /v1/operator/license
```

This command gets the Consul Enterprise license.

The table below shows this command's required ACLs. Configuration of blocking queries and agent caching are not supported from commands, but may be from the corresponding HTTP endpoint.

<table>
<thead>
<tr>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>none</code></td>
</tr>
</tbody>
</table>

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features: Automated Backups, Automated Upgrades, Enhanced Read Scalability, Network Segments, Redundancy Zone, Advanced Network Federation
```

## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.
Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/api#authentication). Configuration of [blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

<table>
<thead>
<tr>
<th>ACL Required</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>operator:write</code></td>
<td></td>
</tr>
</tbody>
</table>

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```
<Route
  @name={{routeName}}
  as |route|>
  <DataLoader
    @src={{
      uri '/${partition}/${nspace}/${dc}/license'
      (hash
        partition=route.params.partition
        nspace=route.params.nspace
        dc=route.params.dc
      )
    }}
    as |loader|>
    {{#let
      loader.data
    as [item]}}
      <BlockSlot @name="error">
        <ErrorState
          @error={{loader.error}}
          @login={{route.model.app.login.open}}
        />
      </BlockSlot>
    {{/let}}
    <BlockSlot @name="disconnected" as |after|>
      {{#if (eq loader.error.status "404")}}
        <Notice
          {{notification
            sticky=true
          }}
          @type="warning"
          as |notice|>
            <notice.Header>
              <strong>Warning!</strong>
            </notice.Header>
            <notice.Body>
              <p>
                This service has been deregistered and no longer exists in the catalog.
              </p>
            </notice.Body>
        </Notice>
      {{else if (eq loader.error.status "403")}}
        <Notice
          {{notification
            sticky=true
          }}
          @type="warning"
          as |notice|>
            <notice.Header>
              <strong>Warning!</strong></notice.Header>
            </notice.Body>
        </Notice>
      {{/if}}
    </BlockSlot>
  </DataLoader>
</Route>
You no longer have access to this service.

An error was returned whilst loading this data, refresh to try again.
(hash
  type=(if item.Valid 'valid' 'expired')
  date=(format-time item.License.expiration_time
      year='numeric'
      month='long'
      day='numeric'
    )
  time=(format-time item.License.expiration_time
      hour12=true
      hour='numeric'
      hourCycle='h12'
      minute='numeric'
      second='numeric'
      timeZoneName='short'
    )
  htmlSafe=true
)}
</p>

<dl>
  <dt class={{class-map
      (array 'valid' item.Valid)
      (array 'expired' (not item.Valid))
  (array 'warning' (temporal-within item.License.expiration_time 2629800000))}}>
    [ {compute (fn route.t 'expiry.${type}.header'
        hash
        type=(if item.Valid 'valid' 'expired')
      )}]
  </dt>
  <dd>
    [ {temporal-format item.License.expiration_time}]</dd>
</dl>

<aside>
  <header>
    <h3>
      [ {compute (fn route.t 'documentation.title')} ]
    </h3>
  </header>
  [ {compute (fn route.t 'documentation.body'
      (hash
      htmlSafe=true
    )}]}]}}
</aside>

Open Source Used in 5GaaS Edge 9.70 8601
Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise. There is no CTS Enterprise specific license. As a result, CTS Enterprise’s licensing is very similar to Consul Enterprise. All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the trial license for Consul Enterprise.

## Setting the License

Choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

```
```
```shell-session
export CONSUL_LICENSE=<LICENSE_VALUE>
```
1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```
shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

1. Configure the `license_path` option in the configuration file to point to the file containing the license.

```
hcl
license_path = "<PATH>/<TO>/<FILE>"
```

~> **Note**: the options to set the license and the order of precedence) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Updating the License

The previous section describes options for setting the license) needed to start running CTS Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

## Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, CTS Enterprise will provide notifications in the system logs:

<table>
<thead>
<tr>
<th>Time period</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>----------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>30 days before expiration</td>
<td>Warning-level log every 24-hours</td>
</tr>
<tr>
<td>7 days before expiration</td>
<td>Warning-level log every 1 hour</td>
</tr>
<tr>
<td>1 hour before expiration</td>
<td>Warning-level log every 1 minute</td>
</tr>
<tr>
<td>1 day before expiration</td>
<td>Warning-level log every 5 minutes</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>At or after expiration (before termination)</td>
<td>Error-level log every 1 minute</td>
</tr>
<tr>
<td>At or after termination</td>
<td>Error-level log and exit</td>
</tr>
</tbody>
</table>

--> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```json
{
    "Valid": true,
    "License": {
        "license_id": "${fake.random.uuid()}",
        "customer_id": "${fake.random.uuid()}",
        "installation_id": "*",
        "issue_time": "2021-01-13T15:25:19.052900132Z",
        "start_time": "2021-01-13T00:00:00Z",
        "expiration_time": "$\{\text{env(\text{CONSUL_LICENSE_EXPIRATION}, \text{\textquoteprintf{2022-05-02T23:59:59.999Z}})}\}\}$",
        "termination_time": "$\{\text{env(\text{CONSUL_LICENSE_TERMINATION}, \text{\textquoteprintf{2022-01-13T23:59:59.999Z}})}\}\}$",
        "product": "consul",
        "flags": {
            "modules": [
                "global-visibility-routing-scale",
                "governance-policy"
            ],
            "modules": [
                "Global Visibility, Routing and Scale",
                "Governance and Policy"
            ],
            "features": [
                "Automated Backups",
                "Automated Upgrades",
                "Enhanced Read Scalability",
                "Network Segments",
                "Redundancy Zone",
                "Advanced Network Federation",
                "Namespaces",
                "SSO",
                "Audit Logging",
                "Admin Partitions"
            ],
            "Warnings": [
                
            ],
        },
    },
    "consul-intention-permission-header-list": {
        "dt::before": {
            @extend %with-glyph-icon;
            content: 'H';
        }
    }
}
```
Mozilla Public License, version 2.0

1. Definitions

1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. Contribution

means Covered Software of a particular Contributor.

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```html
<ListCollection class="consul-intention-permission-header-list"
    @items={{items}}
    @scroll="native"
    @cellHeight={{42}}
    as |item|>
    <BlockSlot @name="details">
    <dl>
    <dt>
    <Tooltip>
    Header
    </Tooltip>
    </dt>
    <dd>
    {{item.Name}} {{route-match item}}
    </dd>
    </dl>
    </BlockSlot>
    <BlockSlot @name="actions" as |Actions|>
```
<Actions as |Action|>
  <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
    <BlockSlot @name="label">
      Delete
    </BlockSlot>
  </Action data-test-delete-action>
</ListCollection>

# License
```hbs preview-template
<figure>
  <figcaption>URI: <code>/partition/:nspace/:dc/license</code></figcaption>
  <DataSource
    @src={{
      uri '/${partition}/${nspace}/${dc}/license'
      (hash
        partition='partition'
        nspace='ns'
        dc='dc-1'
      )
    }}
    @onchange={{action (mut data) value="data"}}
  >/n
  <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

## Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).
## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/docs/enterprise/upgrades)
- [Consul License Documentation](/docs/enterprise/license/overview)
- [License configuration values documentation](/docs/enterprise/license/overview#binaries-without-built-in-licenses)
- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up. The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on trial licenses due to this change?

Consul Enterprise 1.10.0+ server agents require a valid license to start. The license can be provided on disk (auto-loaded) or as an environment variable. There is no longer a 6-hour trial period in which Consul Enterprise server agents can operate without a license.

## Q: Is there a grace period when licenses expire?

Yes Consul will continue normal operation after license expiration as defined in [expiration time](/api-docs/operator/license#getting-the-consul-license). As license expiration is approached or passed, Consul will issue warnings in the system logs. Consul will only cease operation after license expiration and is defined in [termination time](/api-docs/operator/license#getting-the-consul-license).
## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

Visit [consul.io/trial](/trial) for a free 30-day trial license.

**Trial install will cease operation 24 hours after 30-day license expiration:**

Trial licenses are not meant to be used in production.

This is unlike non-trial licenses which provide a 10 year grace period as described in the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

## Q: How can I renew a license?

Contact your organization's HashiCorp account team or email support-softwaredelivery@hashicorp.com for information on how to renew your organization's enterprise license.

## Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's HashiCorp account team or email support-softwaredelivery@hashicorp.com for information on how to renew your organization's enterprise license.

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a
## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable. Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

### VM

1. Run `consul license get -signed` to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-
my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise]/(docs/k8s/installation/deployment-configurations/consul-enterprise).

1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

--> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

## Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
2. Store the license in a secure location on disk.
3. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   - Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
4. Follow the Consul upgrade [documentation](/docs/k8s/upgrading).

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
2. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
   - Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
3. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

--> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example. 
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader). 
The `consul license put` operation will fail due to being removed from 1.10.0. 
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+. 
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version. 
You will need to add the following configuration.

```yaml
server:
  enterpriseLicense:
    enableLicenseAutoload: false
```

---

```yaml
section[data-route='dc.show.license'] {
  @extend %license-route;
}
%license-route .validity {
  @extend %license-validity;
}
%license-route aside {
  @extend %license-route-learn-more;
}

%license-route h2 {
  @extend %h200;
}
%license-validity p {
  color: rgb(var(--tone-gray-700));
}
%license-validity dl {
  @extend %horizontal-kv-list;
  font-size: var(--typo-size-400);
}
%license-validity dl.expired + dd {
  @extend %visually-hidden;
}
```
package api

import (  "io/ioutil"  "strings"  "time"
)

type License struct {
// The unique identifier of the license
LicenseID string `json:"license_id"

// The customer ID associated with the license
CustomerID string `json:"customer_id"

// If set, an identifier that should be used to lock the license to a
// particular site, cluster, etc.
InstallationID string `json:"installation_id"

// The time at which the license was issued
IssueTime time.Time `json:"issue_time"

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
Valid bool
License *License
Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
    return nil, err
} else {
    return &reply, nil
}
func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return "", err
    }
    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return nil, err
    }
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}
<dl class="permission-path">
  <dt>
    <Tooltip>{{item.HTTP.PathType}}</Tooltip>
  </dt>
  <dd>
    {{item.HTTP.Path}}
  </dd>
</dl>

{{/if}}

{{#each item.HTTP.Header as |item|}}
  <dl class="permission-header">
    <dt>
      <Tooltip>Header</Tooltip>
    </dt>
    <dd>
      {{item.Name}} {{route-match item}}
    </dd>
  </dl>
{{/each}}
</div>
</BlockSlot>

{{#if onclick}}
  <BlockSlot @name="actions" as |Actions|>
    <Actions as |Action|>
      <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
        <BlockSlot @name="label">Edit</BlockSlot>
      </Action>
      <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
        <BlockSlot @name="label">Delete</BlockSlot>
        <BlockSlot @name="confirmation" as |Confirmation|>
          <Confirmation class="warning">
            <BlockSlot @name="header">Confirm delete</BlockSlot>
            <BlockSlot @name="body">
              <p>Are you sure you want to delete this permission?</p>
            </BlockSlot>
            <BlockSlot @name="confirm" as |Confirm|>
Presentational component for informational/warning/error banners/notices.

```hbs
<Notice
  @type={{this.type}}
as |notice|
  <notice.Header>
    <h3>Header</h3>
  </notice.Header>
  <notice.Body>
    <p>
      Body
    </p>
  </notice.Body>
  <notice.Footer>
    <p>
      <a href="">Footer link</a>
    </p>
  </notice.Footer>
</Notice>

<figure>
  <figcaption>Provide a widget to change the <code>@type</code></figcaption>
  <select
    onchange={{action (mut this.type) value="target.value"}}
  >
    <option>info</option>
    <option>success</option>
    <option>warning</option>
    <option>error</option>
  </select>
</figure>
```
## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info</td>
</tr>
</tbody>
</table>

## See

- [Template Source Code]('./index.hbs')

```hbs
---
%notice {
  position: relative;
  padding: 0.8rem;
}
%notice header {
  margin-bottom: 0.1rem;
}
%notice header > * {
  margin-bottom: 0;
}
%notice p {
  margin-bottom: 0.3rem;
  line-height: 1.4;
}
/* this is probably skin */
%notice {
  padding-left: calc(0.8rem + 1.4rem);
}
%notice::before {
  position: absolute;
  top: 0.8rem;
  left: 0.6rem;
  font-size: 1rem;
}
```

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```hbs
<Notice
  class="consul-intention-notice-custom-resource crd"
  ...attributes
  @type={{or @type "info"}}
  as |notice|>
  <notice.Header>
    <h3>
      Intention Custom Resource
    </h3>
  </notice.Header>
</Notice>
```
Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.

Learn more about CRDs
1.741 python-jsonschema 2.6.0-2

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; 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
}

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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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define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
 ; First, extend each i32 to i64
 ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
 ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
 ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
 ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
 ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
 ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
 ; Next, convert each to double.
 ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
 ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
 ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
 ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
 ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
 ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
 ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
 ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
 ; CHECK: ret
 %flt = sitofp <16 x i32> %in to <16 x double>
 %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
 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
}
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; 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() {


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; 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:  %2 = inttoptr i32 %[[C2]], 4
; CHECK-NEXT:  %3 = 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: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 7
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M5]] 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: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %13 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* inttoptr(i32 805874800 to i8*), 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*
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
}

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 2
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 2
  %2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 2
  %3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 2
  %4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 2
  %5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 2
  ret void
}
%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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# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
# Names should be added to this file as:
# Name <email address>
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# Please keep the list sorted.

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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>* nocapture writeonly ![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_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[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
}

... 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>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) ![ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) ![ARG1:%.*])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
  ; CHECK-NEXT: ret void
}

... This should promote ...

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>* nocapture writeonly [[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* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[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_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>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; 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>* nocapture writeonly [[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* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; 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>* %arg, <8 x i64>* %arg1) #0 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
    ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
    ; 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:    alloca <8 x i64>, align 32
    ; CHECK-NEXT:    alloca <8 x i64>, align 32
    ; CHECK-NEXT:    alloca <8 x i64>, align 32
    ; CHECK-NEXT:    bitcast <8 x i64>* [[TMP]] to i8*
    ;
    bb:
    ; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 32
    ; CHECK-NEXT:    store <8 x i64> %tmp, <8 x i64>* %arg, align 2
    ; CHECK-NEXT:    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #0 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
    ; 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:    alloca <8 x i64>, align 32
    ; CHECK-NEXT:    alloca <8 x i64>, align 32
    ; CHECK-NEXT:    alloca <8 x i64>, align 32
    ; CHECK-NEXT:    bitcast <8 x i64>* [[TMP]] to i8*
    ;
    bb:
    ; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 32
    ; CHECK-NEXT:    store <8 x i64> %tmp, <8 x i64>* %arg, align 2
    ; CHECK-NEXT:    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>* nocapture writeonly [[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*
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1, align 32
    store <8 x i64> %tmp, <8 x i64>* %arg, align 2
    ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
    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 dereferenceable(64) %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 not promote
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
    bb: %tmp = load <8 x i64>, <8 x i64>* %arg
    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>* nocapture nonfree nullnonnull writeonly [[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*
call void @llvm.memset.p0i8.i64(i8* nullnonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* noalias nocapture nonfree nullnonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nonfree nullnonnull align 32 dereferenceable(64) [[TMP]])
    ; CHECK-NEXT:  bb:
    ; 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:
    ; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 32
    ; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
    ; CHECK-NEXT:    ret void
}
; 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
declare 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>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; 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
}

declare 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>* nocapture writeonly [[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* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[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_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>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; 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>* nocapture writeonly [[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* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[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_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 }

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; NOTE: Assertions have been autogenerated by util/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -
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 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>  
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>  
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
    ;  
    ; VEC512-LABEL: '"zext256'  
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>  
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>  
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>  
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>  
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>  
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
  
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 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>  
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>  
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void  
    ;  
    ; SKX256-LABEL: '"zext512'
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 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    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 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    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 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    %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" {
    ; 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
    %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
}

; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

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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 | FileCheck %s --check-prefixes=CHECK,CHECK-VMX

; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpaddq
This file primarily contains tests for specific places in X86ISelLowering.cpp that needed to be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```c
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: add256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:   vpadd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:   vpaddd (%rsi), %ymm0, %ymm0
  ; 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 void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: add512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:   vpadd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:   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 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, %<64 x i32>
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %<64 x i32>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    CHECK-LABEL: avg_v64i8_512:
    CHECK: # %bb.0:
    CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
    CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
    CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
    CHECK-NEXT: vzeroupper
    CHECK-NEXT: retq

    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %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, %<64 x i32>
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
  # %bb.0:
  ; CHECK-LABEL: pmaddwd_32_256:
  ; CHECK:
  ; 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 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:
  ; 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 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: vmovdqa32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%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 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 i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:      # %bb.0: # %entry
    ; CHECK-NEXT:  movl %edx, %eax
    ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:  xorl %ecx, %ecx
    ; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT:  .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB8_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
    ; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
    ; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
    ; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
    ; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB8_1
    ; CHECK-NEXT:  # %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[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,2,3]
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %xmm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq

    entry:
    %3 = zext i32 %2 to i64
    br label %vector.body

    vector.body:
    %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
    %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
    %4 = getelementptr inbounds i8, i8* %0, i64 %index
    %5 = bitcast i8* %4 to <32 x i8>*
    %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde

define 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:  vpmovsx bw (%rdi, %rcx), %zmm2
; CHECK-NEXT:  vpmovsx bw (%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:  vextracti64 x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %zmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} %zmm1 = %xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %zmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} %xmm1 = %xmm0[1,1,2,3]
; 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, %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
; CHECK-NEXT:  <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,
@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sad_16i8_256:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT:    .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB10_1: # %vector.body
  ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    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, %ymm0
  ; CHECK-NEXT:    vpaddd %xmm0, %ymm0, %ymm0
  ; CHECK-NEXT:    vpaddd %xmm1, %ymm1, %ymm1

  ; CHECK-NEXT:  .LBB10_1:
  ; CHECK-NEXT:    # %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, %ymm0
  ; CHECK-NEXT:    vpaddd %xmm0, %ymm0, %ymm0
  ; CHECK-NEXT:    vpaddd %xmm1, %ymm1, %ymm1
}

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; CHECK-NEXT: vpshufd {{.*#*}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#*}} xmm1 = xmm0[1,1,2,3]
; 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>
  %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, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %.lcssa = phi <16 x i32> [ %10, %vector.body ]
  %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <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> %.lcssa, %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, 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>
  %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sad_16i8_512:
    ; CHECK:      # %bb.0: # %entry
    ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT: .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB11_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
    ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
    ; CHECK-NEXT:    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[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
    ; 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>
    %8 = sub nsw <16 x i32> zeroinitializer, %6
    %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <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> %.lcssa, %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, 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>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbtol632_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbtol632_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, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbtol632_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbtol632_512:
; CHECK: # %bb.0:
define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    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 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 %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %zmm0, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %ymm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%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 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 %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, %rdi
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
 ; CHECK-LABEL: ubto16f64_512:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: vpmovm2d %k0, %zmm0
 ; CHECK-NEXT: vpsrlq $31, %zmm0, %zmm0
 ; CHECK-NEXT: vcvtqd2pd %xmm0, %zmm1
 ; CHECK-NEXT: vcvtqd2pd %xmm0, %zmm1
 ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
 ; CHECK-NEXT: vmovaps %zmm1, 64(%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq

 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
 }

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
 ; CHECK-LABEL: test_16f32toub_256:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
 ; CHECK-NEXT: vpsld $31, %ymm1, %ymm1
; CHECK-NEXT:   vpmovd2m %ymm1, %k0
; CHECK-NEXT:   vcvtpps2dq 32(%rdi), %ymm1
; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:   vpmovd2m %ymm1, %k1
; CHECK-NEXT:   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> zeroinitialize
ret <16 x i16> %select
}
define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:   # %bb.0:
; CHECK-NEXT:   vcvtpps2dq (%rdi), %zmm1
; CHECK-NEXT:   vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:   vpmovd2m %zmm1, %k1
; CHECK-NEXT:   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> zeroinitialize
ret <16 x i16> %select
}
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:   # %bb.0:
; CHECK-NEXT:   vcvtpps2dq (%rdi), %zmm1
; CHECK-NEXT:   vpmovd2m %zmm1, %k0
; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:   kunpckbw %k0, %k1, %k1
; CHECK-NEXT:   retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
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-NEXT:   vpmovd2m %ymm1, %k0
; CHECK-NEXT:   vcvtpps2dq 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> zeroinitialize
ret <16 x i16> %select
}
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" { 
 ; CHECK-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],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13] ,ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31] 
 ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = 
 ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13] ,ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31] 
 ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 = 
 ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13] ,ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31] 
}
ymm2[8], ymm0[8], ymm2[9], ymm0[9], ymm2[10], ymm0[10], ymm2[11], ymm0[11], ymm2[12], ymm0[12], ymm2[13], ymm0[13], ymm2[14], ymm0[14], ymm2[15], ymm0[15], ymm2[24], ymm0[24], ymm2[25], ymm0[25], ymm2[26], ymm0[26], ymm2[27], ymm0[27], ymm2[28], ymm0[28], ymm2[29], ymm0[29], ymm2[30], ymm0[30], ymm2[31], ymm0[31]

; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22]

; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4

; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0

; 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

}
zmm1[0], zmm0[0], zmm1[1], zmm0[1], zmm1[2], zmm0[2], zmm1[3], zmm0[3], zmm1[4], zmm0[4], zmm1[5], zmm0[5],
zmm1[6], zmm0[6], zmm1[7], zmm0[7], zmm1[16], zmm0[16], zmm1[17], zmm0[17], zmm1[18], zmm0[18], zmm1[19],
zmm0[19], zmm1[20], zmm0[20], zmm1[21], zmm0[21], zmm1[22], zmm0[22], zmm1[23], zmm0[23], zmm1[32], zmm0[32],
zmm1[33], zmm0[33], zmm1[34], zmm0[34], zmm1[35], zmm0[35], zmm1[36], zmm0[36], zmm1[37], zmm0[37],
zmm1[38], zmm0[38], zmm1[39], zmm0[39], zmm1[48], zmm0[48], zmm1[49], zmm0[49], zmm1[50], zmm0[50], zmm1[51], zmm0[51], zmm1[52], zmm0[52], zmm1[53], zmm0[53], zmm1[54], zmm0[54], zmm1[55], zmm0[55]

; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm0 =
zmm0[0, 0, 0, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 11, 12, 12, 13, 13, 14, 14, 15, 15, 16, 16, 17, 17, 18, 18, 19, 19, 20, 20, 21, 21, 22, 22, 23, 23, 24, 24, 25, 25, 26, 26, 27, 27, 28, 28, 29, 29, 30, 30, 31, 31, 32, 32, 33, 33, 34, 34, 35, 35, 36, 36, 37, 37, 38, 38, 39, 39, 40, 40, 41, 41, 41, 41, 42, 42, 43, 43, 44, 44, 44, 44, 45, 45, 45, 45, 46, 46, 46, 46, 47, 47, 47, 47, 48, 48, 48, 48, 48, 48, 49, 49, 49, 49, 50, 50, 50, 50, 51, 51, 52, 52, 53, 53, 54, 54, 54, 54, 55, 55]

; CHECK-AVX512-NEXT: vpmullw %zmm1, %zmm0, %zmm0

; CHECK-AVX512-NEXT: vpmullw %zmm1, %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), %zmm1

; CHECK-VBMI-NEXT: vmovdqa64 (%rsi), %zmm1

; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm2 =
zmm1[8], zmm0[8], zmm1[9], zmm0[9], zmm1[10], zmm0[10], zmm1[11], zmm0[11], zmm1[12], zmm0[12], zmm1[13], zmm0[13], zmm1[14], zmm0[14], zmm1[15], zmm0[15], zmm1[16], zmm0[16], zmm1[17], zmm0[17], zmm1[18], zmm0[18], zmm1[19], zmm0[19], zmm1[20], zmm0[20], zmm1[21], zmm0[21], zmm1[22], zmm0[22], zmm1[23], zmm0[23], zmm1[24], zmm0[24], zmm1[25], zmm0[25], zmm1[26], zmm0[26], zmm1[27], zmm0[27], zmm1[28], zmm0[28], zmm1[29], zmm0[29], zmm1[30], zmm0[30], zmm1[31], zmm0[31], zmm1[32], zmm0[32], zmm1[33], zmm0[33], zmm1[34], zmm0[34], zmm1[35], zmm0[35], zmm1[36], zmm0[36], zmm1[37], zmm0[37], zmm1[38], zmm0[38], zmm1[39], zmm0[39], zmm1[40], zmm0[40], zmm1[41], zmm0[41], zmm1[42], zmm0[42], zmm1[43], zmm0[43], zmm1[44], zmm0[44], zmm1[45], zmm0[45], zmm1[46], zmm0[46], zmm1[47], zmm0[47], zmm1[48], zmm0[48], zmm1[49], zmm0[49], zmm1[50], zmm0[50], zmm1[51], zmm0[51], zmm1[52], zmm0[52], zmm1[53], zmm0[53], zmm1[54], zmm0[54], zmm1[55], zmm0[55]

; CHECK-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, 41, 41, 42, 42, 43, 43, 44, 44, 44, 44, 45, 45, 45, 45, 46, 46, 46, 46, 47, 47, 47, 47, 48, 48, 48, 48, 48, 48, 49, 49, 49, 49, 50, 50, 50, 50, 51, 51, 52, 52, 52, 52, 53, 53, 54, 54, 54, 54, 55, 55]

; CHECK-VBMI-NEXT: vpmullw %zmm1, %zmm0, %zmm0

; 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: vinvers128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT: vpmovqd %ymm2, %xmm1
; CHECK-NEXT: vpmovqd %ymm3, %ymm2
; CHECK-NEXT: vinvers128 $1, %ymm2, %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:     # %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), %ymm1
; CHECK-NEXT:   vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT:   vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT:   vpermi2w %ymm1, %ymm2, %ymm0
; 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
%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:   vpsrlw $8, 32(%rdi), %ymm0
; CHECK-NEXT:   vpsrlw $8, (%rdi), %ymm1
; CHECK-NEXT:   vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:   vperm2w 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
%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]
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), %ymm1
  ; CHECK-NEXT:    vpsraq $48, (%rdi), %ymm2
  ; CHECK-NEXT:    vmovdqa [./*#+] ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
  ; CHECK-NEXT:    vpermi2w %ymm1, %ymm2, %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>
  %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:    vpfsraw $8, 32(%rdi), %ymm0
define 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: vpmovzxwb {{.*#+}} 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[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm2 = xmm2[0],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[2,3,0,1]
; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm3 = xmm3[0],zero,zero,xmm3[1],zero,zero,xmm3[2],zero,zero,xmm3[3],zero,zero,xmm3[4],zero,zero,xmm3[5],zero,zero,xmm3[6],zero,zero,xmm3[7],zero,zero,xmm3[8],zero,zero,xmm3[9],zero,zero,xmm3[10],zero,zero,xmm3[11],zero,zero,xmm3[12],zero,zero,xmm3[13],zero,zero,xmm3[14],zero,zero,xmm3[15],zero
; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm1 = xmm1[0],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,xmm0[1],zero,zero,zero,xmm0[2],zero,zero,zero,xmm0[3],zero,zero,zero,xmm0[4],zero,zero,zero,xmm0[5],zero,zero,zero,xmm0[6],zero,zero,zero,xmm0[7],zero,zero,zero,xmm0[8],zero,zero,zero,xmm0[9],zero,zero,zero,xmm0[10],zero,zero,zero,xmm0[11],zero,zero,zero,xmm0[12],zero,zero,zero,xmm0[13],zero,zero,zero,xmm0[14],zero,zero,zero,xmm0[15],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 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, %ymm0  
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]  
; CHECK-NEXT: vpmovsxml %ymm1, %xmm1  
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm2  
; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]  
; CHECK-NEXT: vpmovsxml %ymm3, %xmm3  
; CHECK-NEXT: vpmovsxml %ymm0, %ymm0  
; CHECK-NEXT: vpmovsxml %ymm2, %ymm2  
; CHECK-NEXT: vmovdqa %ymm2, 64(%rdi)  
; CHECK-NEXT: vmovdqa %ymm0, (%rdi)  
; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)  
; CHECK-NEXT: vmovdqa %ymm1, 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 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: vpmpeqw %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  
%a = load <8 x i16>, <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 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:  

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define 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 i64> %x, <16 x i64> %y
    store <16 x i64> %b, <16 x i64>* %r
    ret void
}

define 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:    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 <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 i64> %x, <16 x i64> %y
    store <16 x i64> %b, <16 x i64>* %r
    ret void
}

define void @vselect_split_v16i32_setcc(<16 x i32> %s, <16 x i32> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v16i32_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 <16 x i32>, <16 x i32>* %p
    %y = load <16 x i32>, <16 x i32>* %q
    %a = icmp eq <16 x i32> %s, %t
    %b = select <16 x i1> %a, <16 x i64> %x, <16 x i64> %y
    store <16 x i64> %b, <16 x i64>* %r
    ret void
}
; 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>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %x, <16 x i32> %y
%e = trunc <16 x i32> %c to <16 x i32>
ret <16 x i8> %e
}

define 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, %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>
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 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, %k1  
; 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 = 0xFFF7FFFF
; 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 = 0xFFF7FFFF
; 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 = 0xFFF7FFFF
; 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 = 0xFFF7FFFF
; 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 = 0xFFF7FFFF
; 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 = 0xFFF7FFFF
; 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 $29, %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 $28, %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 $31, %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 $30, %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, %k1
; CHECK-NEXT:  kshiftrd %ym0, %ym0, %k1
; CHECK-NEXT:  kshiftlq $63, %k0, %k0
; CHECK-NEXT:  kshiftrq $30, %k0, %k0
; CHECK-NEXT:  korq %k2, %k0, %k0
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitializer
  %shuf = shufflevector <64 x i1> %b, undef, <64 x i1> %b, undef <64 x i1>
  call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8> %y, i32 %shuf)
  ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8( <64 x i8> %a, <64 x i8> %y, i32 %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8( <64 x i8> %a, <64 x i8> %y, i32 %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8( <64 x i8> %a, <64 x i8> %y, i32 %shuf)
ret void
}
define 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 "", "~{dirflag},~{fpsr},~{flags}"(i64 %2)  
store i64 %3, i64* @mem64_dst, align 8  
%4 = load i32, i32* %1, align 4  
ret i32 %4  
}  
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------------------------------------------------------------------------
add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  lldbCore
  lldbHost
  lldbSymbol
LINK_COMPONENTS
  Support
)
------------------------------------------------------------------------

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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 attributes.

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: (\{[^\@]+\})@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; CHECK-NEXT:  bb:
  ; CHECK-NEXT:    store <8 x i64>, <8 x i64>* %arg1
  ;
  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>* %arg
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

open source used in 5gaaS edge

; 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_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)
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> %arg, <8 x i64>* %arg
  ; CHECK-NEXT: 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
}

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; 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_legal512_prefer256_call_avx512_legal512_prefer512(<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_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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_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_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: call fastcc void @callee_avx512_legal512_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_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 not 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>* %arg
    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_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 = load <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_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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
    ; CHECK-LABEL: define ([[^@]+])@callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  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"="512" }
  attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
  attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
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Joao Paulo Magalhaes <joaoppmagalhaes@gmail.com>
John Millikin <jmillikin@stripe.com>
Jussi Knuuttila <jussi.knuuttila@gmail.com>
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 ]
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; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked 
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; 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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; 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.

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  ; CHECK-LABEL: TestFabs:
  ; CHECK movaps 16(%rsp), %xmm1
  ; CHECK-NEXT callq __subtf3
  ; CHECK-NEXT testl %ebx, %ebx
  ; CHECK-NEXT jg .LBB0_2
  ; CHECK-NEXT # %bb.1:
  ; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
  ; CHECK-NEXT .LBB0_2:
  ; CHECK-NEXT addq $32, %rsp
  ; CHECK-NEXT popq %rbx
  ; CHECK-NEXT retq
}

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
; CHECK-LABEL:  TestFabs:
; CHECK      andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL:  TestCopysign:
; CHECK      andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
; CHECK-LABEL:  TestFneg:
; CHECK      movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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1.756 kubernetes-klog 2.2.0

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* /opt/cola/permits/1271151975_1644878424.86/0/argcomplete-2-0-0-tar-gz/argcomplete-2.0.0/argcomplete/my_argparse.py
* /opt/cola/permits/1271151975_1644878424.86/0/argcomplete-2-0-0-tar-gz/argcomplete-2.0.0/scripts/python-argcomplete-check-easy-install-script
* /opt/cola/permits/1271151975_1644878424.86/0/argcomplete-2-0-0-tar-gz/argcomplete-2.0.0/argcomplete/__init__.py
* /opt/cola/permits/1271151975_1644878424.86/0/argcomplete-2-0-0-tar-gz/argcomplete-2.0.0/scripts/activate-global-python-argcomplete
* /opt/cola/permits/1271151975_1644878424.86/0/argcomplete-2-0-0-tar-gz/argcomplete-2.0.0/argcomplete/completers.py

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Summary: Bash tab completion for argparse
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Platform: Posix
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Classifier: Operating System :: POSIX
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
argcomplete - Bash tab completion for argparse

*Tab complete all the things!*

Argcomplete provides easy, extensible command line tab completion of arguments for your Python script.

It makes two assumptions:

* You're using bash as your shell (limited support for zsh, fish, and tcsh is available)
* You're using `argparse <http://docs.python.org/3/library/argparse.html>`_ to manage your command line arguments/options

Argcomplete is particularly useful if your program has lots of options or subparsers, and if your program can dynamically suggest completions for your argument/option values (for example, if the user is browsing resources over the network).

Installation

```
::

    pip3 install argcomplete
    activate-global-python-argcomplete

```

See `Activating global completion`_ below for details about the second step (or if it reports an error).

Refresh your bash environment (start a new shell or `source /etc/profile`).

Synopsis

```
Python code (e.g. `my-awesome-script`):

```

_Activating global completion_
.. code-block:: python

#!/usr/bin/env python
# PYTHON_ARGCOMPLETE_OK
import argcomplete, argparse
parser = argparse.ArgumentParser()
...
argcomplete.autocomplete(parser)
args = parser.parse_args()
...

Shellcode (only necessary if global completion is not activated - see `Global completion` below), to be put in e.g. `~/.bashrc`:

```bash
eval "$(register-python-argcomplete my-awesome-script)"
```

argcomplete.autocomplete(*parser*)
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

This method is the entry point to the module. It must be called **after** ArgumentParser construction is complete, but **before** the `ArgumentParser.parse_args()` method is called. The method looks for an environment variable that the completion hook shellcode sets, and if it's there, collects completions, prints them to the output stream (fd 8 by default), and exits. Otherwise, it returns to the caller immediately.

.. admonition:: Side effects

Argcomplete gets completions by running your program. It intercepts the execution flow at the moment `argcomplete.autocomplete()` is called. After sending completions, it exits using `os._exit` by default. This means if your program has any side effects that happen before `argcomplete` is called, those side effects will happen every time the user presses `<TAB>` (although anything your program prints to stdout or stderr will be suppressed). For this reason it's best to construct the argument parser and call `argcomplete.autocomplete()` as early as possible in your execution flow.

.. admonition:: Performance

If the program takes a long time to get to the point where `argcomplete.autocomplete()` is called, the tab completion process will feel sluggish, and the user may lose confidence in it. So it's also important to minimize the startup time of the program up to that point (for example, by deferring initialization or importing of large modules until after parsing options).

Specifying completers
---------------------

You can specify custom completion functions for your options and arguments. Two styles are supported: callable and readline-style. Callable completers are simpler. They are called with the following keyword arguments:
* "prefix": The prefix text of the last word before the cursor on the command line. For dynamic completers, this can be used to reduce the work required to generate possible completions.
* "action": The `argparse.Action` instance that this completer was called for.
* "parser": The `argparse.ArgumentParser` instance that the action was taken by.
* "parsed_args": The result of argument parsing so far (the `argparse.Namespace` args object normally returned by `ArgumentParser.parse_args()`).

Completers should return their completions as a list of strings. An example completer for names of environment variables might look like this:

.. code-block:: python

    def EnvironCompleter(**kwargs):
        return os.environ

To specify a completer for an argument or option, set the `completer` attribute of its associated action. An easy way to do this at definition time is:

.. code-block:: python

    from argcomplete.completers import EnvironCompleter
    parser = argparse.ArgumentParser()
    parser.add_argument("--env-var1").completer = EnvironCompleter
    parser.add_argument("--env-var2").completer = EnvironCompleter
    argcomplete.autocomplete(parser)

If you specify the `choices` keyword for an argparse option or argument (and don't specify a completer), it will be used for completions.

A completer that is initialized with a set of all possible choices of values for its action might look like this:

.. code-block:: python

    class ChoicesCompleter(object):
        def __init__(self, choices):
            self.choices = choices

        def __call__(self, **kwargs):
            return self.choices

The following two ways to specify a static set of choices are equivalent for completion purposes:

.. code-block:: python

    from argcomplete.completers import ChoicesCompleter
parser.add_argument("--protocol", choices=('http', 'https', 'ssh', 'rsync', 'wss'))
parser.add_argument("--proto").completer=ChoicesCompleter(('http', 'https', 'ssh', 'rsync', 'wss'))

Note that if you use the ```choices=<completions>``` option, argparse will show all these choices in the ```--help``` output by default. To prevent this, set ```metavar``` (like ```parser.add_argument("--protocol", metavar="PROTOCOL", choices=(http, https, ssh, rsync, wss))``).

The following script uses `parsed_args` and Requests <http://python-requests.org/> to query GitHub for publicly known members of an organization and complete their names, then prints the member description:

```python
#!/usr/bin/env python
# PYTHON_ARGCOMPLETE_OK
import argcomplete, argparse, requests, pprint

def github_org_members(prefix, parsed_args, **kwargs):
    resource = "https://api.github.com/orgs/{org}/members".format(org=parsed_args.organization)
    return (member['login'] for member in requests.get(resource).json() if member['login'].startswith(prefix))

parser = argparse.ArgumentParser()
parser.add_argument("--organization", help="GitHub organization")
parser.add_argument("--member", help="GitHub member").completer = github_org_members
argcomplete.autocomplete(parser)

args = parser.parse_args()
pprint.pprint(requests.get("https://api.github.com/users/{m}".format(m=args.member)).json())

"Try it <https://raw.githubusercontent.com/kislyuk/argcomplete/master/docs/examples/describe_github_user.py>" like this::

```
./describe_github_user.py --organization heroku --member <TAB>
```

If you have a useful completer to add to the `completer library <https://github.com/kislyuk/argcomplete/blob/master/argcomplete/completers.py>`_, send a pull request!

Readline-style completers

The readline_ module defines a completer protocol in rlcompleter_. Readline-style completers are also supported by argcomplete, so you can use the same completer object both in an interactive readline-powered shell and on the bash command line. For example, you can use the readline-style completer provided by IPython_ to get introspective completions like you would get in the IPython shell:

.. _readline: http://docs.python.org/3/library/readline.html
.. _rlcompleter: http://docs.python.org/3/library/rlcompleter.html#completer-objects
.. _IPython: http://ipython.org/

.. code-block:: python

    import IPython
    parser.add_argument("--python-name").completer = IPython.core.completer.Completer()

``argcomplete.CompletionFinder.rl_complete`` can also be used to plug in an argparse parser as a readline completer.

Printing warnings in completers
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Normal stdout/stderr output is suspended when argcomplete runs. Sometimes, though, when the user presses ``<TAB>``
appropriately to print information about why completions generation failed. To do this, use ``warn``:

.. code-block:: python

    from argcomplete import warn

    def AwesomeWebServiceCompleter(prefix, **kwargs):
        if login_failed:
            warn("Please log in to Awesome Web Service to use autocompletion")
        return completions

Using a custom completion validator
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

By default, argcomplete validates your completions by checking if they start with the prefix given to the completer.
You can override this validation check by supplying the ``validator`` keyword to ``argcomplete.autocomplete()``:

.. code-block:: python

    def my_validator(current_input, keyword_to_check_against):
      # Pass through ALL options even if they don't all start with 'current_input'
      return True

    argcomplete.autocomplete(parser, validator=my_validator)

Global completion
-----------------

In global completion mode, you don't have to register each argcomplete-capable executable separately. Instead, bash
will look for the string **PYTHON_ARGCOMPLETE_OK** in the first 1024 bytes of any executable that it's running
completion for, and if it's found, follow the rest of the argcomplete protocol as described above.

Additionally, completion is activated for scripts run as ``python <script>`` and ``python -m <module>``.
This also works for alternate Python versions (e.g. ``python3`` and ``pypy``), as long as that version of Python has
argcomplete installed.

.. admonition:: Bash version compatibility

Global completion requires bash support for ``complete -D``, which was introduced in bash 4.2. On OS X or older Linux systems, you will need to update bash to use this feature. Check the version of the running copy of bash with ```echo $BASH_VERSION``. On OS X, install bash via `Homebrew <http://brew.sh/>` using ```brew install bash```, add ```/usr/local/bin/bash``` to ```/etc/shells```, and run ```chsh``` to change your shell.

Global completion is not currently compatible with zsh.

.. note:: If you use setuptools/distribute ``scripts`` or ``entry_points`` directives to package your module, argcomplete will follow the wrapper scripts to their destination and look for ``PYTHON_ARGCOMPLETE_OK`` in the destination code.

If you choose not to use global completion, or ship a bash completion module that depends on argcomplete, you must register your script explicitly using ```eval "$(register-python-argcomplete my-awesome-script)"``. Standard bash completion registration rules apply: namely, the script name is passed directly to ```complete```, meaning it is only tab completed when invoked exactly as it was registered. In the above example, ```my-awesome-script``` must be on the path, and the user must be attempting to complete it by that name. The above line alone would **not** allow you to complete ```./my-awesome-script```, or ```/path/to/my-awesome-script``.

Activating global completion
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

The script ```activate-global-python-argcomplete``` will try to install the file ```bash_completion.d/python-argcomplete``` (```see on GitHub``` into an appropriate location on your system (```/etc/bash_completion.d/``` or ```~/.bash_completion.d/```). If it fails, but you know the correct location of your bash completion scripts directory, you can specify it with ```--dest```:

```
activate-global-python-argcomplete --dest=/path/to/bash_completion.d
```

Otherwise, you can redirect its shellcode output into a file:

```
activate-global-python-argcomplete --dest=- > file
```

The file's contents should then be sourced in e.g. ```~/.bashrc``.

.. _`see on GitHub`: https://github.com/kislyuk/argcomplete/blob/master/argcomplete/bash_completion.d/python-argcomplete

Zsh Support
To activate completions for zsh you need to have `bashcompinit` enabled in zsh:

```bash
autoload -U bashcompinit
bashcompinit
```

Afterwards you can enable completion for your scripts with `register-python-argcomplete`:

```bash
eval "$(register-python-argcomplete my-awesome-script)"
```

**Tcsh Support**

To activate completions for tcsh use:

```bash
eval `register-python-argcomplete --shell tcsh my-awesome-script`
```

The `python-argcomplete-tcsh` script provides completions for tcsh. The following is an example of the tcsh completion syntax for `my-awesome-script` emitted by `register-python-argcomplete`:

```
complete my-awesome-script 'p@*@`python-argcomplete-tcsh my-awesome-script' @'
```

**Fish Support**

To activate completions for fish use:

```bash
register-python-argcomplete --shell fish my-awesome-script | source
```

or create new completion file, e.g.:

```bash
register-python-argcomplete --shell fish my-awesome-script > ~/.config/fish/completions/my-awesome-script.fish
```

**Completion Description For Fish**

By default help string is added as completion description.

```bash
.. image:: docs/fish_help_string.png
```

You can disable this feature by removing `_ARGCOMPLETE_DFS` variable, e.g.:

```bash
register-python-argcomplete --shell fish my-awesome-script | grep -v _ARGCOMPLETE_DFS | source
```

**Absolute Path Completion**

If script is not in path you still can register it's completion by specifying absolute path:

```bash
register-python-argcomplete --shell fish /home/awesome-user/my-awesome-script | source
```
then you can complete it by using `~/home/awesome-user/my-awesome-script` or `./my-awesome-script`.

Unfortunately `~/my-awesome-script` would not work, to fix it you can run::

```
register-python-argcomplete --shell fish my-awesome-script -e /home/awesome-user/my-awesome-script | source
```

This would enable completion for any `my-awesome-script` in any location.

Git Bash Support
----------------
Due to limitations of file descriptor inheritance on Windows, Git Bash not supported out of the box. You can opt in to using temporary files instead of file descriptors for for IPC by setting the environment variable `ARGCOMPLETE_USE_TEMPFILES`, e.g. by adding `export ARGCOMPLETE_USE_TEMPFILES=1` to `~/.bashrc`.

For full support, consider using Bash with the Windows Subsystem for Linux (WSL).

External argcomplete script
---------------------------
To register an argcomplete script for an arbitrary name, the `--external-argcomplete-script` argument of the `register-python-argcomplete` script can be used::

```
eval "$(register-python-argcomplete --external-argcomplete-script /path/to/script arbitrary-name)"
```

This allows, for example, to use the auto completion functionality of argcomplete for an application not written in Python. The command line interface of this program must be additionally implemented in a Python script with argparse and argcomplete and whenever the application is called the registered external argcomplete script is used for auto completion.

This option can also be used in combination with the other supported shells.

Python Support
--------------
Argcomplete requires Python 3.6+.

Common Problems
---------------
If global completion is not completing your script, bash may have registered a default completion function::

```
$ complete | grep my-awesome-script
complete -F _minimal my-awesome-script
```

You can fix this by restarting your shell, or by running `complete -r my-awesome-script`.
Debugging
---------
Set the `"_ARC_DEBUG"` variable in your shell to enable verbose debug output every time argcomplete runs. This will disrupt the command line composition state of your terminal, but make it possible to see the internal state of the completer if it encounters problems.

Acknowledgments
-----------------
Inspired and informed by the optcomplete_ module by Martin Blais.

.. _optcomplete: http://pypi.python.org/pypi/optcomplete

Links
-----
* Project home page (GitHub) <https://github.com/kislyuk/argcomplete>
* Documentation <https://kislyuk.github.io/argcomplete/>
* Package distribution (PyPI) <https://pypi.python.org/pypi/argcomplete>
* Change log <https://github.com/kislyuk/argcomplete/blob/master/Changes.rst>

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~~~~
Please report bugs, issues, feature requests, etc. on `GitHub <https://github.com/kislyuk/argcomplete/issues>`_.

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* /opt/cola/permits/1271151975_1644878424.86/0/argcomplete-2-0-0-tar-gz/argcomplete-2.0.0/argcomplete.egg-info/PKG-INFO
* /opt/cola/permits/1271151975_1644878424.86/0/argcomplete-2-0-0-tar-gz/argcomplete-2.0.0/PKG-INFO

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# Copyright 2012-2021, Andrey Kislyuk and argcomplete contributors.
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__python_argcomplete_expand_tilde_by_ref () {
    if [ "${!1:0:1}" = "~" ]; then
        if [ "${!1}" != "${!1///}" ]; then
            eval $1="${!1/%/\}$!\#/";
        else
            eval $1="$!1";
        fi
    fi
}

__python_argcomplete_run() {
    if [[ -z ${ARGCOMPLETE_USE_TEMPFILES-} ]]; then
        _ARGCOMPLETE_STDOUT_FILENAME="$(mktemp)
        __python_argcomplete_run_inner "$@
        return
    fi
    local tmpfile="$(mktemp)
    local code=$? 8>&1 9>&2 1>/dev/null 2>&1
    cat "$tmpfile"
    rm "$tmpfile"
    return $code
}

__python_argcomplete_run_inner() {
    if [[ -z ${_ARC_DEBUG-} ]]; then
        "$@" 8>&1 9>&2 1>/dev/null 2>&1
    else
        "$@" 8>&1 9>&2 1>&9 2>&1
    fi
}

__python_argcomplete_scan_head() {
    read -s -r ${3:--N} 1024 < "$1"
    [[ "$REPLY" =~ ${2:-PYTHON_ARGCOMPLETE_OK} ]] ||
}

__python_argcomplete_scan_head_noerr() {
    _python_argcomplete_scan_head "$@" 2>/dev/null
}
ARGCOMPLETE=$ARGCOMPLETE
ARGCOMPLETE_SUPPRESS_SPACE=1
__python_argcomplete_run "$executable" "${COMP_WORDS[@]:1:ARGCOMPLETE-1})"
if [[ $? != 0 ]]; then
 unset COMPREPLY
elif [[ "${COMPREPLY-}" =~ [=/:]$ ]]; then
  compopt -o nospace
fi
else
  type -t _completion_loader | grep -q 'function' & & _completion_loader "$@
fi
}
complete -o default -o bashdefault -D -F _python_argcomplete_global

Found in path(s):
* /opt/cola/permits/1271151975_1644878424.86/0/argcomplete-2-0-0-tar-gz/argcomplete-2.0.0/argcomplete/bash_completion.d/python-argcomplete

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1.758 glob 0.2.3

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1.759 x-time-rate 0.0.0-20200416051211-89c76fbcdf5d1

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1.760 validator 10.11.0
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1.761 pylint 3.0.0a4
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Contributors

Current team:

* Ashley Whetter: maintainer, contributor
* Bryce Guinta: maintainer, contributor
* Claudiu Popa: maintainer, contributor
* Cara Vinson: astroid committer.

* Guillaume Peillex: committer

* ukasz Rogalski: committer.

* Roy Williams (Lyft): committer

  added check for implementing __eq__ without implementing __hash__.
  Added Python 3 check for accessing Exception.message.
  Added Python 3 check for calling encode/decode with invalid codecs.
  Added Python 3 check for accessing sys.maxint.
  Added Python 3 check for bad import statements.
  Added Python 3 check for accessing deprecated methods on the 'string' module,
  various patches.

* Dmitry Pribysh: committer

  multiple-imports, not-iterable, not-a-mapping, various patches.

* Jim Robertson: committer

Ex-maintainers:

* Sylvain Thenault (Logilab): main author / maintainer

* Torsten Marek (Google): committer / contributor

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* Julien Cristau, Emile Anclin (Logilab): python 3 support

* Sandro Tosi: Debian packaging

* Mads Kiilerich, Boris Feld, Bill Wendling, Sebastian Ulrich:
various patches

* Brian van den Broek: windows installation documentation

* Amaury Forgeot d'Arc: check names imported from a module exists in the module

* Benjamin Niemann: allow block level enabling/disabling of messages

* Nathaniel Manista: suspicious lambda checking

* David Shea: invalid sequence and slice index

* Carl Crowder: don't evaluate the value of arguments for 'dangerous-default-value'


* David Lindquist: logging-format-interpolation warning.

* Brett Cannon: Port source code to be Python 2/3 compatible, Python 3 checker.

* Vlad Temian: redundant-unittest-assert and the JSON reporter.

* Cosmin Poiean: unichr-builtin and improvements to bad-open-mode.

* Viorel tirbu: intern-builtin warning.

* Dan Goldsmith: support for msg-template in HTML reporter.

* Chris Rebert: unidiomatic-typecheck.

* Steven Myint: duplicate-except.


* Bruno Daniel: check_docs extension.

* James Morgensen: ignored-modules option applies to import errors.

* Cezar Elnazli: deprecated-method

* Stphane Wirtel: nonlocal-without-binding

* Laura Medioni (Logilab, on behalf of the CNES): misplaced-comparison-constant, no-classmethod-decorator, no-staticmethod-decorator, too-many-nested-blocks, too-many-boolean-expressions, unneeded-not, wrong-import-order, ungrouped-imports, wrong-import-position, redefined-variable-type
* Aru Sahni: Git ignoring, regex-based ignores

* Mike Frysinger: contributor.

* Moiss Lpez (Vauxoo): Support for deprecated-modules in modules not installed, Refactor wrong-import-order to integrate it with `isort` library Add check too-complex with mccabe for cyclomatic complexity Refactor wrong-import-position to skip try-import and nested cases Add consider-merging-isinstance, superfluous-else-return Fix consider-using-ternary for 'True and True and True or True' case

* Luis Escobar (Vauxoo), Moiss Lpez (Vauxoo): Add bad-docstring-quotes and docstring-first-line-empty

* Yannick Brehon: contributor.

* Glenn Matthews: autogenerated documentation for optional extensions, bug fixes and enhancements for docparams (ne check_docs) extension

* Elias Dorneles: minor adjust to config defaults and docs

* Yuri Bochkarev: Added epytext support to docparams extension.

* Alexander Todorov: added new error conditions to 'bad-super-call', Added new check for incorrect len(SEQUENCE) usage, Added new extension for comparison against empty string constants, Added new extension which detects comparing integers to zero, Added new useless-return checker, Added new try-except-raise checker

* Erik Eriksson - Added overlapping-except error check.

* Anthony Foglia (Google): Added simple string slots check.

* Derek Gustafson: contributor

* Petr Pulc: require whitespace around annotations

* John Paraskevopoulos: add 'differing-param-doc' and 'differing-type-doc'

* Martin von Gagern (Google): Added 'raising-format-tuple' warning.

* Ahirnish Pareek, 'keyword-arg-before-var-arg' check

* Daniel Miller: contributor.

* Bryce Guinta: contributor
* Martin Bati: contributor
  Added new check for shallow copy of os.environ

* Jacques Kvam: contributor

* Brian Shiginaw: prevent error on exception check for functions

* Ioana Tagirta: fix bad thread instantiation check

* Reverb Chu: contributor

* Tobias Hernstig: contributor

* Konstantin Manna: contributor

* Andreas Freimuth: fix indentation checking with tabs

* Renat Galimov: contributor

* Thomas Snowden: fix missing-docstring for inner functions

* Mitchell Young: minor adjustment to docparams

* Marianna Polatoglou: minor contribution for wildcard import check

* Ben Green: contributor

* Benjamin Freeman: contributor

* Fureigh: contributor

* Jace Browning: updated default report format with clickable paths

* Sushobhit (sushobhit27): contributor
  Added new check 'comparison-with-itself'.
  Added new check 'useless-import-alias'.
  Added support of annotations in missing-type-doc and missing-return-type-doc.
  Added new check 'comparison-with-callable'.
  Removed six package dependency.
  Added new check 'chained-comparison'.
  Added new check 'useless-object-inheritance'.

* Mariatta Wijaya: contributor
  Added new check `logging-fstring-interpolation`
  Documentation typo fixes

* Jason Owen: contributor
* Mark Roman Miller: fix inline defs in too-many-statements

* Adam Dangoor: contributor

* Gary Tyler McLeod: contributor

* Wolfgang Grafen, Axel Muller, Fabio Zadrozny, Pierre Rouleau, Maarten ter Huurne, Mirko Friedenhagen and all the Logilab's team (among others).

* Matej Marusak: contributor

* Nick Drozd: contributor, performance improvements to astroid

* Kosarchuk Sergey: contributor

* Carey Metcalfe: demoted `try-except-raise` from error to warning

* Marcus Nslund (naslundx): contributor

* Natalie Serebryakova: contributor

* Caio Carrara: contributor

* Roberto Leinardi: PyCharm plugin maintainer

* Aivar Annamaa: contributor

* Hornwitser: fix import graph

* Yuri Gribov: contributor

* Drew Risinger: committer (docs)

* Ben James

* Tomer Chachamu, Richard Goodman: simplifiable-if-expression

* Alan Chan: contributor

* Benjamin Drung: contributing Debian Developer

* Scott Worley: contributor

* Michael Hudson-Doyle

* Lucas Cimon: contributor

* Mike Miller: contributor
* Sergei Lebedev: contributor

* Sasha Bagan

* Pablo Galindo Salgado: contributor
  Fix false positive 'Non-iterable value' with async comprehensions.

* Matus Valo

* Sardorbek Imomaliev: contributor

* Justin Li (justinhli)

* Nicolas Dickreuter

* Pascal Corpet

* Svetoslav Neykov: contributor

* Federico Bond: contributor

* Fantix King (UChicago): contributor

* Yory (yory8): contributor

* Thomas Hisch: contributor

* Clment Pit-Claudel : contributor

* Goudcode: contributor

* Paul Renvoise : contributor

* Bluesheepoken: contributor

* Michael Scott Cuthbert: contributor

* Pierre Sassoulas : maintainer, contributor

* Nathan Marrow

* Taewon Kim : contributor

* Daniil Kharkov: contributor

* Tyler N. Thieding: contributor
* Zeb Nicholls: contributor
  - Made W9011 compatible with 'of' syntax in return types

* Martin Vielsmaier: contributor

* Agustin Toledo: contributor

* Nicholas Smith: contributor

* Peter Kolbus (Garmin): contributor

* Oisin Moran: contributor

* Andrzej Klajnert: contributor

* Andrs Prez Hortal: contributor

* Niko Wenselowski: contributor

* Danny Hermes: contributor

* Eric Froemling: contributor

* Robert Schweizer: contributor

* Hugo van Kemenade: contributor

* Mikhail Fesenko: contributor

* Trevor Bekolay: contributor
  - Added --list-msgs-enabled command

* Rmi Cardona: contributor

* Daniel Draper: contributor

* Gabriel R. Sezefredo: contributor
  - Fixed "exception-escape" false positive with generators

* laike9m: contributor

* Janne Rnkk: contributor

* Hugues Bruant: contributor

* Tim Gates: contributor

* Enji Cooper: contributor
* Bastien Vallet: contributor

* Pek Chhan: contributor

* Craig Henriques: contributor

* Matthijs Blom: contributor

* Andy Palmer: contributor

* Wes Turner (Google): added new check 'inconsistent-quotes'

* Athos Ribeiro
  Fixed dict-keys-not-iterating false positive for inverse containment checks

* Anubhav: contributor

* Ben Graham: contributor

* Anthony Tan: contributor

* Benny Miller: contributor

* Bernie Gray: contributor

* Slavfox: contributor

* Matthew Beckers (mattlbeck): contributor

* Yang Yang: contributor

* Andrew J. Simmons (anjsimmo): contributor

* Damien Baty: contributor

* Daniel R. Neal (danrneal): contributer

* Jeremy Fleischman (jfly): contributer

* Shiv Venkatasubrahmanyam

* Jochen Preusche (iilei): contributor

* Ram Rachum (cool-RR)

* Pieter Engelbrecht
* Ethan Leba: contributor
* Matj Grabovsk: contributor
* Yeting Li (yetingli): contributor
* Frost Ming (frostming): contributor
* Luigi Bertaco Cristofolini (luigibertaco): contributor
* Eli Fine (eli88fine): Fixed false positive duplicate code warning for lines with symbols only
* Ganden Schaffner: contributor
* Josselin Feist: contributor
* David Cain: contributor
* Pedro Algarvio (s0undt3ch): contributor
* Luigi Bertaco Cristofolini (luigibertaco): contributor
* Or Bahari
* Joshua Cannon: contributor
* Giuseppe Valente: contributor
* Takashi Hirashima: contributor
* Joffrey Mander: contributor
* Julien Palard: contributor
* Raphael Gaschignard: contributor
* Sorin Sbarnea: contributor
* Gergely Kalmr: contributor
* Batuhan Taskaya: contributor
* Frank Harrison (doublethefish): contributor
* Gauthier Sebaux: contributor
* Logan Miller (komodo472): contributor
* Matthew Suozzo: contributor

* Marc Mueller (cdce8p): contributor

* David Gilman: contributor

* Ikraduya Edian: contributor
  - Added new checks 'consider-using-generator' and 'use-a-generator'.

* Tiago Honorato: contributor

* Lefteris Karapetsas: contributor

* Louis Sautier: contributor

* Quentin Young: contributor

* Alexander Kapshuna: contributor

* Mark Byrne: contributor

* Konstantina Saketou: contributor

* Andrew Howe: contributor

* James Sinclair (irgeek): contributor

* Andreas Finkler: contributor

* Aidan Haase, Elizabeth Bott: contributor

* Sebastian Miller: contributor

* Ramiro Leal-Cavazos (ramiro050): Fixed bug preventing pylint from working with emacs tramp

* manderj: contributor

* qwiddle: contributor

* das-intensity: contributor

* Jiajunsu (victor): contributor

* Andrew Haigh (nelfin): contributor

* Pang Yu Shao (yushao2): contributor

* Aditya Gupta (adityagu1089) : contributor
- Added ignore_signatures to duplicate checker

* Jacob Walls: contributor

* ruro: contributor

* David Liu (david-yz-liu): contributor

* Bernard Nauwelaerts: contributor

* Fabian Damken: contributor

* Markus Siebenhaar: contributor

* Lorena Buciu (lorena-b): contributor

* Sergei Lebedev (superbobry): contributor

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```
-- vile: txtmode file-encoding=utf-8
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This package was put together by Vaidhyanathan G Mayilrangam <vaidhy@debian.org> and Joel Klecker <espy@debian.org>, using sources obtained from ftp://ftp.gnu.org/gnu/ncurses/ncurses-5.0.tar.gz. Current versions of the ncurses sources are found at ftp://invisible-island.net/ncurses/.

It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>, Michael Alan Dorman <mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup <jjtroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.763 c-ares 1.8.15

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1.764 librdkafka 1.7.0

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

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librdkafka - Apache Kafka C driver library

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Version 2, June 1991
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
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b) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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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
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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.

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1.776 gosnmp 1.34.0

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1.777 libtext-charwidth-perl 0.04-7.1

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1.780 grpc-go 1.48.0

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1.784 typing 4.1.1

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<th>Year</th>
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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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1.785 pytz-deprecation-shim 0.1.0.post0

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1.786 zlib 1.2.8

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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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*/

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1.787 libxcb-randr0 1.13-2~ubuntu18.04

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1.788 python-debian 0.1.32
```python
#!/usr/bin/python
#
# vim: fileencoding=utf-8
#
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'''Check the format and dumpability of debian/copyright filenames on stdin.

Usage:

    find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py

The --suppress_warnings and --summary flags can be used to make the program
output less verbose.

import argparse
import codecs
import io
import sys
import warnings
from debian import copyright

def parse_args():
    parser = argparse.ArgumentParser()
    parser.add_argument('--summary', action='store_true',
                        help='Whether to print only a summary')
    parser.add_argument('--suppress_warnings', action='store_true',
                        help='Whether to suppress copyright warnings')
    return parser.parse_args()
```
def main():
    args = parse_args()

    if args.suppress_warnings:
        warnings.filterwarnings('ignore', module='debian.copyright')

    problems = {
        parse_failures = [],
        dump_failures = [],
    }

total = 0
for filename in sys.stdin:
    total += 1
    filename = filename.rstrip()
    with io.open(filename, mode='rt', encoding='utf-8') as f:
        try:
            c = copyright.Copyright(f)
        except Exception as e:
            problems.setdefault((1, 'Parse failures'), []).append((filename, e))
            continue

        try:
            c.dump()
        except Exception as e:
            problems.setdefault((2, 'Dump failures'), []).append((filename, e))

    if not c.header.known_format():
        problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
    for glob in p.files:
        if glob.startswith('./'):
            globs_with_leading_dot_slash.append(glob)
        if glob.endswith(', '):
            globs_with_trailing_comma.append(glob)
        if '**' in glob:
globs_with_double_star.append(glob)
if invalid_globs:
problems.setdefault((4, 'Invalid glob'), []).append(
(filename, invalid_globs))
if globs_with_leading_dot_slash:
problems.setdefault((5, 'Globs with leading ./'), []).append(
(filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
problems.setdefault((6, 'Globs with trailing ,'), []).append(
(filename, globs_with_trailing_comma))
if globs_with_double_star:
problems.setdefault((7, 'Globs with **'), []).append(
(filename, globs_with_double_star))
f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
f.write('\n%s: (%d / %d)\n' % (heading, len(problems), total))
if not args.summary:
for filename, problem in problems:
f.write(' %s: %s\n' % (filename, problem))

if __name__ == '__main__':
main()
# vim: fileencoding=utf-8
#
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"""Utilities for parsing and creating machine-readable debian/copyright files.
The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Open Source Used In 5GaaS Edge 9.70 9112


from __future__ import unicode_literals

import collections
import itertools
import io
import re
import warnings

from debian import deb822

_CURRENT_FORMAT = (
    'http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/)

_KNOWN_FORMATS = frozenset(
    _CURRENT_FORMAT,
    # TODO(jsw): Transparently rewrite https:// as http://, at least for this?
    'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/',
)

class Error(Exception):
    """Base class for exceptions in this module."""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."""

class Copyright(object):
    """Represents a debian/copyright file."

    A Copyright object contains a Header paragraph and a list of additional Files or License paragraphs. It provides methods to iterate over those paragraphs, in addition to adding new ones. It also provides a mechanism for finding the Files paragraph (if any) that matches a particular filename.

    Typical usage:

    with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
        c = copyright.Copyright(f)

        header = c.header
        # Header exposes standard fields, e.g.
print('Upstream name: ', header.upstream_name)
lic = header.license
if lic:
    print('Overall license: ', lic.synopsis)
# You can also retrieve and set custom fields.
header['My-Special-Field'] = 'Very special'

# Find the license for a given file.
paragraph = c.find_files_paragraph('debian/rules')
if paragraph:
    print('License for debian/rules: ', paragraph.license)

# Dump the result, including changes, to another file.
with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
    c.dump(f=f)

It is possible to build up a Copyright from scratch, by modifying the
header and using add_files_paragraph and add_license_paragraph. See the
associated method docstrings.

```python
def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a
                    file-like object. If not specified, a blank Copyright object is
                    initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
                    It is recommended to use unicode objects everywhere instead, e.g.
                    by opening files in text mode.

    Raises:
    NotMachineReadableError if 'sequence' does not contain a
    machine-readable debian/copyright file.
    """
    super(Copyright, self).__init__()

    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
        if not paragraphs:
            raise NotMachineReadableError('no paragraphs in input')
        self.__header = Header(paragraphs[0])
        for i in range(1, len(paragraphs)):
            p = paragraphs[i]
            if 'Files' in p:
```
p = FilesParagraph(p)
elif 'License' in p:
p = LicenseParagraph(p)
else:
    warnings.warn('Non-header paragraph has neither "Files"
    ' nor "License" fields')
    self.__paragraphs.append(p)
else:
    self.__header = Header()

@property
def header(self):
    """The file header paragraph."""
    return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file paragraphs as FilesParagraph objects; license paragraphs as LicenseParagraph objects.
    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs

    see all_paragraphs() for more information
    """
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last FilesParagraph
    that matches the filename. If no paragraphs matched, returns None.
    """
def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which
    might be before a standalone LicenseParagraph).
    """
    if not isinstance(paragraph, FilesParagraph):
        raise TypeError('paragraph must be a FilesParagraph instance')

    last_i = -1
    for i, p in enumerate(self.__paragraphs):
        if isinstance(p, FilesParagraph):
            last_i = i
    self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenceParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    """
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents
    to f, which must be a file-like object that is opened in text mode
    (i.e. that accepts unicode objects directly). It is thus up to the
    caller to arrange for the file to do any appropriate encoding.
    """
    return_string = False
    if f is None:
        return_string = True
    f = io.StringIO()
    self.header.dump(f, text_mode=True)
for p in self.__paragraphs:
    f.write('n')
    p.dump(f, text_mode=True)
if return_string:
    return f.getvalue()

def _single_line(s):
    "Returns s if it is a single line; otherwise raises ValueError.""
    if 'n' in s:
        raise ValueError('must be single line')
    return s

class _LineBased(object):
    "Namespace for conversion methods for line-based lists as tuples.""

    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
    def from_str(s):
        """Returns the lines in 's', with whitespace stripped, as a tuple.""
        return tuple(v for v in
                     (line.strip() for line in (s or '').strip().splitlines())
                     if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line."
        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        """
        l = list(seq)
        if not l:
            return None

        def process_and_validate(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if 'n' in s:
                raise ValueError('values must not contain newlines')
            return s

        if len(l) == 1:
            return process_and_validate(l[0])
        tmp = []
for s in l:
    tmp.append(' ' + process_and_validate(s))
return 'n'.join(tmp)

class _SpaceSeparated(object):
    
    """Namespace for conversion methods for space-separated lists as tuples."
    
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r's')

    @staticmethod
    def from_str(s):
        
        """Returns the values in s as a tuple (empty if only whitespace).""
        return tuple(v for v in (s or '').split() if v)

    @classmethod
    def to_str(cls, seq):
        
        """Returns the sequence as a space-separated string (None if empty).""
        l = list(seq)
        if not l:
            return None
        tmp = []
        for s in l:
            if cls._has_space.search(s):
                raise ValueError('values must not contain whitespace')
            s = s.strip()
        if not s:
            raise ValueError('values must not be empty')
        tmp.append(s)
        return ' '.join(tmp)

    # TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    
    """Formats multiline text for insertion in a Deb822 field.

    Each line except for the first one is prefixed with a single space. Lines
    that are blank or only whitespace are replaced with '.'
    ""
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
    
    """Same as format_multiline, but taking input pre-split into lines."""
out_lines = []
for i, line in enumerate(lines):
    if i != 0:
        if not line.strip():
            line = '.
        line = ' ' + line
    out_lines.append(line)
return 'n'.join(out_lines)

def parse_multiline(s):
    """Inverse of format_multiline.

    Technically it can't be a perfect inverse, since format_multiline must
    replace all-whitespace lines with ' '. Specifically, this function:
    - Does nothing to the first line
    - Removes first character (which must be ' ') from each proceeding line.
    - Replaces any line that is ' ' with an empty line.
    """
    if s is None:
        return None
    return 'n'.join(parse_multiline_as_lines(s))

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    """
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == ' ':
            line = '
        lines[i] = line
    return lines

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable."""

def __new__(cls, synopsis, text=''): 
    """Creates a new License object."""
:param synopsis: The short name of the license, or an expression giving
alternatives. (The first line of a License field.)
:param text: The full text of the license, if any (may be None). The
lines should not be mangled for "deb822"-style wrapping - i.e. they
should not have whitespace prefixes or single '.' for empty lines.
"""
return super(License, cls).__new__(
cls, synopsis=_single_line(synopsis), text=(text or ''))
@classmethod
def from_str(cls, s):
if s is None:
return None
lines = parse_multiline_as_lines(s)
if not lines:
return cls('')
return cls(lines[0], text='\n'.join(itertools.islice(lines, 1, None)))
def to_str(self):
return format_multiline_lines([self.synopsis] + self.text.splitlines())
# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
r"""Returns an re object for the given globs.
Only * and ? wildcards are supported. Literal * and ? may be matched via
\* and \?, respectively. A literal backslash is matched \\. Any other
character after a backslash is forbidden.
Empty globs match nothing.
Raises ValueError if any of the globs is illegal.
"""
buf = io.StringIO()
for i, glob in enumerate(globs):
if i != 0:
buf.write('|')
i=0
n = len(glob)
while i < n:
c = glob[i]
i += 1
if c == '*':

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buf.write('.*')
elif c == '?':
    buf.write('.')
elif c == '\':
    if i < n:
        c = glob[i]
        i += 1
    else:
        raise ValueError('single backslash not allowed at end')
if c in r'\?*':
    buf.write(re.escape(c))
else:
    raise ValueError(r'invalid escape sequence: \%s' % c)
else:
    buf.write(re.escape(c))

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

    This kind of paragraph is used to specify the copyright and license for a
    particular set of files in the package.
    """

def __init__(self, data, _internal_validate=True):
    super(FilesParagraph, self).__init__(data)

    if _internal_validate:
        if 'Files' not in data:
            raise ValueError("Files" field required)
        # For the other "required" fields, we just warn for now. Perhaps
        # these should be upgraded to exceptions (potentially protected by
        # a "strict" param).
        if 'Copyright' not in data:
            warnings.warn('Files paragraph missing Copyright field')
        if 'License' not in data:
            warnings.warn('Files paragraph missing License field')

        if not self.files:
            warnings.warn('Files paragraph has empty Files field')

        self.__cached_files_pat = (None, None)
@classmethod
def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

    :param files: The list of file globs.
    :param copyright: The copyright for the files (free-form text).
    :param license: The Licence for the files.
    """
    p = cls(deb822.Deb822(), _internal_validate=False)
    p.files = files
    p.copyright = copyright
    p.license = license
    return p

def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.

    Caches the result until files is set to a different value.

    Raises ValueError if any of the globs are invalid.
    """
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files."""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822.RestrictedField(
    'Files', from_str=_SpaceSeparated.from_str,
    to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822.RestrictedField('Copyright', allow_none=False)
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)
comment = deb822.RestrictedField('Comment')

class LicenseParagraph(deb822.RestrictedWrapper):
    """Represents a standalone license paragraph of a debian/copyright file.

    Minimally, this kind of paragraph requires a 'License' field and has no
    """
'Files' field. It is used to give a short name to a license text, which can be referred to from the header or files paragraphs.

```python
def __init__(self, data, _internal_validate=True):
    super(LicenseParagraph, self).__init__(data)
    if _internal_validate:
        if 'License' not in data:
            raise ValueError("'License' field required")
        if 'Files' in data:
            raise ValueError('input appears to be a Files paragraph')

@classmethod
def create(cls, license):
    """Returns a LicenseParagraph with the given license."
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or 
# short name with exceptions (not an alternatives expression). This 
# requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you 
    must explicitly set them (rather than modifying a returned reference).
    """

def __init__(self, data=None):
    """Initializer.
    :param parsed: A deb822.Deb822 object for underlying data. If None, a 
    new one will be created.
    """
    if data is None:
data = deb822.Deb822()
data['Format'] = _CURRENT_FORMAT

if 'Format-Specification' in data:
    warnings.warn('use of deprecated "Format-Specification" field;
    ' rewriting as "Format")
data['Format'] = data['Format-Specification']
del data['Format-Specification']

super(Header, self).__init__(data)

fmt = self.format
if fmt is None:
    raise NotMachineReadableError('input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    """Returns True iff the format is known."""
    return self.format in _KNOWN_FORMATS

def current_format(self):
    """Returns True iff the format is the current format."""
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(  
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(  
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(  
    'Upstream-Contact', from_str=_LineBased.from_str,  
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(  
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
Copyright: Debian python-debian Maintainers (see debian/control for maintainer names)
License: GPL-2+

Files: lib/deb822.py lib/debian/deb822.py lib/debian/tests/test_deb822.py
Copyright: Copyright (C) 2005-2006 dann frazier <dannf@dannf.org>
    Copyright (C) 2006-2010 John Wright <john@johnwright.org>
    Copyright (C) 2006 Adeodato Sim <dato@net.com.org.es>
    Copyright (C) 2008 Stefano Zacchiroli <zack@upsilon.cc>
    Copyright (C) 2014 Google, Inc.
License: GPL-2+

Files:
examples/changelog/*
lib/debian/changelog.py
README.changelog
setup.py.in
lib/debian/tests/test_changelog.py
Copyright: Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
    Copyright (C) 2008 Canonical Ltd.
License: GPL-2+
Comment: lib/debian/changelog.py’s parsing code is based on that from dpkg which is:
Copyright 1996 Ian Jackson
Copyright 2005 Frank Lichtenheld <frank@lichtenheld.de>
and licensed under the same license.

Files:
lib/debian/debian_support.py
lib/debian/tests/test_debian_support.py
Copyright: Copyright (C) 2005 Florian Weimer <fw@deneb.enyo.de>
    Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
    Copyright (C) 2010 John Wright <jsw@debian.org>
License: GPL-2+

Files:
examples/debtags/*
lib/debian/debtags.py
lib/debian/doc-debtags
lib/debian/tests/test_debtags.py
Copyright: Copyright (C) 2003-2007 Enrico Zini <enrico@debian.org>
License: GPL-3+

Files:
examples/debfile/*
lib/debian/arfile.py
lib/debian/debfile.py  
lib/debian/tests/test_debfile.py  
Copyright: Copyright (C) 2007-2008 Stefano Zacchiroli <zack@debian.org>  
Copyright (C) 2007 Filippo Giunchedi <filippo@debian.org>  
License: GPL-3+

Files:  
lib/debian/deprecation.py  
Copyright: Copyright (C) Ben Finney <ben+debian@benfinney.id.au>  
License: GPL-2+

Files:  
examples/copyright/*  
lib/debian/copyright.py  
lib/debian/tests/test_copyright.py  
Copyright: Copyright (C) 2014 Google, Inc.  
License: GPL-2+

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1.789 python3-6-minimal 3.6.9-1~18.04ubuntu1.7

1.789.1 Available under license:

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens. Current maintainer is Matthias Klose <doko@debian.org>.

It was downloaded from http://python.org/

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Upstream Author: Guido van Rossum <guido@cwi.nl> and others.

License:

The following text includes the Python license and licenses and acknowledgements for incorporated software. The licenses can be read in the HTML and texinfo versions of the documentation as well, after installing the pythonx.y-doc package. Licenses for files not licensed under the Python Licenses are found at the end of this file.

Python License
==============

A. HISTORY OF THE SOFTWARE
==============================

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<th>Owner</th>
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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.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

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Mersenne Twister
-------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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

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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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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.795 wrapt 1.12.1

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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStream.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java
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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
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  jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
  jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.801 sysv-init 2.96-2.1ubuntu1

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- Copy files to and from Containers in a cluster

## Motivation

# Copying Container Files

## Motivation
- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{% endpanel %}

{% method %}
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path\>`
- Remote file format is `\<pod-name\>:\<path\>`

{% sample lang="yaml" %}
```
bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

{% endmethod %}

{% method %}
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path\>`
- Remote file format is `\<pod-name\>:\<path\>`

{% sample lang="yaml" %}
```
bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

{% endmethod %}

{% method %}
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `\-c <container-name>`

{% sample lang="yaml" %}
### Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

{% sample lang="yaml" %}
```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
{% endmethod %}

---

1.809 xcb-util-keysyms 0.4.0 1

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1.810 p11-kit 0.23.20-1ubuntu0.1

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1.811 libldap-common 2.4.45+dfsg-1ubuntu1.10

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1.812 json-c 0.12.1-1.3ubuntu0.3

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1.814 aws-sdk-go-v2 1.15.3
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //
    // * Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}
type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:          region,
        ServiceID:       ServiceID,
        SigningName:     "license-manager",
        OperationName:   "ListReceivedLicenses",
    }
}

name: License Scan

on: [pull_request]

jobs:

licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
        matrix:
            python-version: [3.9]
steps:
- name: Checkout target
  uses: actions/checkout@v2
  with:
    path: sdkbase
    ref: ${{ github.base_ref }}
- name: Checkout this ref
  uses: actions/checkout@v2
  with:
    path: new-ref
    fetch-depth: 0
- name: Get Diff
  run: git --git-dir .new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }} ${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir .sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
    fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
  uses: actions/setup-python@v2
  with:
    python-version: ${{ matrix.python-version }}
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo .sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo .new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
    c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    // //
    // // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{
    }
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns, 
        c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string

} noSmithyDocumentSerde

} type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation’s result.
    ResultMetadata middleware.Metadata

} noSmithyDocumentSerde

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {

return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}
func newServiceMetadataMiddleware_opDisassociateLicense(region string) *awsmiddleware.RegisterServiceMetadata

return &awsmiddleware.RegisterServiceMetadata{
Region:        region,
ServiceID:     ServiceID,
SigningName:   "grafana",
OperationName: "DisassociateLicense",
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"  
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
"github.com/aws/smithy-go/middleware"  
smithyhttp "github.com/aws/smithy-go/transport/http"
)
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
    c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:      region,
        ServiceID:   ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
    c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    noSmithyDocumentSerde
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData
// Key fingerprint identifying the license.
// This member is required.
KeyFingerprint *string

// Product SKU.
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:         region,
        ServiceID:      ServiceID,
        SigningName:    "license-manager",
        OperationName:  "CheckoutLicense",
    }
}

AWS SDK for Go
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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
if params == nil {
    params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil


type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListLicensesOutput struct {

    // License details.
    Licenses []types.License

    // Token for the next set of results.
    NextToken *string
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorResponseCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }

    return err
}
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {  
    return &awsmiddleware.RegisterServiceMetadata{  
        Region:        region,  
        ServiceID:     ServiceID,  
        SigningName:   "license-manager",  
        OperationName: "ListLicenses",  
    }  
}  

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)  

// Deletes the specified license.  
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {  
    if params == nil {  
        params = &DeleteLicenseInput{}  
    }  
}
result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, c.addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// This member is required.
LicenseArn *string

// This member is required.
SourceVersion *string

// Date when the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana Enterprise incurs additional fees. For more information, see Upgrade a workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns ...func(*Options))
    (*AssociateLicenseOutput, error) {
        if err != nil {
            return nil, err
        }
        out := result.(*AssociateLicenseOutput)
        out.ResultMetadata = metadata
        return out, nil
    }
type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

    noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opAssociateLicense(region string) *
awsmiddleware.RegisterServiceMetadata {

return &awsmiddleware.RegisterServiceMetadata{
    Region:    region,
    ServiceID: ServiceID,
    SigningName: "grafana",
    OperationName: "AssociateLicense",
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //

/ This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
type CreateLicenseOutput struct {

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

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1.815 libidn2-dev 2.0.4-1.1ubuntu0.2

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

1.818 libyajl 2.1.0-2build1

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Upstream-Contact: Lloyd Hilaiel <me@lloyd.io>
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1.819 python3-venv 3.6.7-1~18.04
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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==================================
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1.825 did-you-mean 1.2.0

1.825.1 Available under license:

```
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```

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Open Source Used In 5GaaS Edge 9.70 8466
1.826 aws-sdk-go-v2 1.12.3

1.826.1 Available under license:

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmanager "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //

// * Beneficiary
Filters [][]types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde

}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses [][]types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSinerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddFieldResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddFieldResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
Region:    region,
ServiceID:        ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
nname: License Scan

on: [pull_request]

jobs:
  licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.9]
    steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }} ${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
      - name: Checkout scancode
        uses: actions/checkout@v2
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit
          fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
  - name: Run Scan code on pr ref
    run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
  - name: License test
    run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string


type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)
// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...
  func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
  params = &DisassociateLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
  return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

  // The type of license to remove from the workspace.
  //
  // This member is required.
  LicenseType types.LicenseType

  // The ID of the workspace to remove the Grafana Enterprise license from.
  //
  // This member is required.
  WorkspaceId *string

}

type DisassociateLicenseOutput struct {

  // A structure containing information about the workspace.
  //
  // This member is required.
  Workspace *types.WorkspaceDescription

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata

}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),

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func newServiceMetadataMiddleware_opDisassociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "grafana",
        OperationName: "DisassociateLicense",
    }
}


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package licensemanager

import (  
  "context"
  aws middlware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {  
  if params == nil {  
    params = &GetLicenseInput{  
  }  
  }  

  result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)  
  if err != nil {  
    return nil, err  
  }

  out := result.(*GetLicenseOutput)  
  out.ResultMetadata = metadata  
  return out, nil
}

type GetLicenseInput struct {  
  // Amazon Resource Name (ARN) of the license.  
  //  
  // This member is required.  
  LicenseArn *string

  // License version.  
  Version *string

  noSmithyDocumentSerde
}

type GetLicenseOutput struct {
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string
type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    noSmithyDocumentSerde
}

if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyMiddleware.AddRequestIDMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyMiddleware.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyMiddleware.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
	noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  return nil
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {
    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32
// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
)
// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string

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}

type DeleteLicenseOutput struct {
    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
Region:        region,
ServiceID:     ServiceID,
SigningName:   "license-manager",
OperationName: "DeleteLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {  
if params == nil {  
params = &AssociateLicenseInput{}  
}
}

result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
if err != nil {  
return nil, err  
}

out := result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil  
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

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}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
return err
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "grafana",
        OperationName: "AssociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    // // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    // // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    // // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    // // This member is required.
    HomeRegion *string

    // License issuer.
    // // This member is required.
    Issuer *types.Issuer

    // License name.
    // // This member is required.
    LicenseName *string

    // Product name.
    // // This member is required.
    ProductName *string
// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11SerializeOpCreateLicense{}, middleware.After)
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputedPayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

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1.827 libpolkitagent 0.105-20ubuntu0.18.04.6

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changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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its purpose remains meaningful.

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

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for 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 "rdjpgcm" and "wrjpgcm", 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 (configguess, configsub, 
lconfig, ltmaint.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 "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

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

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

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

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified 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

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.uunet.net for information on retrieving files that way.

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

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

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

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

RELATED SOFTWARE

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.

1.839 libhcryptoheimdal 7.5.0+dfsg-1

1.839.1 Available under license:

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@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>
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## Commands to generate dependency files

```bash
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```bash
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```bash
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```bash
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```bash
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```bash
LD_SOOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```bash
SO = so
```

## Non-shared intermediate object suffix

```bash
STATIC_O = ao
```

## Compilation rules

```bash
%.$(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

```bash
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\("GEN_DEPS.c\) $< \n| sed "s/\($^\)/\(.*\)/$\1.o $@ : /g\" > $@;
| -s $@ \| rm -f $@"
```

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**Open Source Used In 5GaaS Edge 9.70 9729**
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\!(\text{GEN\_DEPS.cc}) \text{ $<}$ \ \
| sed 's/\(\w+\)/\1.o : /g' > $@; \n[ -s $@ ] || rm -f $@

## Versioned libraries rules

%.%$(SO).%$(SO\_TARGET\_VERSION\_MAJOR): %.%$(SO).%$(SO\_TARGET\_VERSION)
$\!(\text{RM}) $@ && ln -s ${<F} $@
%.%$(SO): %.%$(SO).%$(SO\_TARGET\_VERSION\_MAJOR)
$\!(\text{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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* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/searchTree.cc
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/rectBlock.cc
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/quicksort.cc
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/directedLine.cc
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/interface/glrenderer.cc

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* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0.0-orig-tar-gz/glu-9.0.0/src/libnurbs/normal.c
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0.0-orig-tar-gz/glu-9.0.0/src/libnurbs/primivtiveStream.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0.0-orig-tar-gz/glu-9.0.0/src/libnurbs/memory.c
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0.0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/simplicmath.h
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* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/sampleCompRight.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/renderhints.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/varray.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/directedLine.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/mesher.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/bufpool.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ interface/mystdio.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/jarcloc.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/arc.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/bufpool.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/mystring.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/flist.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/arcloc.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/coveandtiler.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/sampleCompTop.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/quicksort.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/arc.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ normals.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/ internals/nurbsconsts.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/ directedLine.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/mesh.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/sweep.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/priorityq- heap.c
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/filist.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/priorityq- heap.c
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/quad.c
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/sampleCompTop.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/polyUtil.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9.0-0-orig-tar-gz/glu-9.0.0/src/libtess/render.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/interface/mystdlib.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/mysetjmp.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/defines.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/monoPolyPart.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/sampleMonoPoly.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/bezierarc.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/bezierPatch.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libutil/registry.c
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/interface/glrenderer.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/arctess.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libtess/render.c
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/slicer.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/partitionX.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libtess/sweep.c
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/gridWrap.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/arcassert.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/myassert.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/nurbtess/monoChain.h
* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/arcsorter.h

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* /opt/cola/permits/1264086188_1657825288.7195044/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/hull.h

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 * Version:  3.0
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AC_PREREQ([2.60])
AC_INIT([glu],
[9.0.0],
[https://bugs.freedesktop.org/enter_bug.cgi?product=Mesa&component=GLU])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CANONICAL_HOST

AM_INIT_AUTOMAKE([dist-bzip2 foreign subdir-objects])

LT_PREREQ([2.2])
LT_INIT

dnl Check for progs
AC_PROG_CPP
AC_PROG_CC
AC_PROG_CXX

dnl Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

AC_ARG_ENABLE(debug,
AS_HELP_STRING([--enable-debug],
[Enable debugging information]),
[CFLAGS="$CFLAGS -g -O0"
CXXFLAGS="$CXXFLAGS -g -O0"],
[])

dnl Make sure the pkg-config macros are defined
m4_ifndef([PKG_PROG_PKG_CONFIG],
  [m4_fatal([Could not locate the pkg-config autoconf macros. These are usually located in /usr/share/aclocal/pkg.m4. If your macros are in a different location, try setting the environment variable ACLOCAL="aclocal -I/other/macro/dir" before running autoreconf.])])
PKG_PROG_PKG_CONFIG()

AC_ARG_ENABLE(osmesa,
AS_HELP_STRING([--enable-osmesa],
[Enable use of OSMesa instead of libGL]),
[OSMESA="$enableval"],
[OSMESA=no])

dnl Get the pkg-config definitions for libGL/OSMesa. We include a fallback
dnl path for implementations that don't provide a .pc file
if test "xOSMESA" = "xyes"; then
  GLU_REQUIRES="osmesa"
PKG_CHECK_MODULES(OSMESA, [osmesa], [], [}]}]
AC_CHECK_LIB([OSMesa],
   [glBegin],
   [OSMESA_LIBS=-lOSMesa],
   AC_MSG_ERROR([OSMesa required]))
)
else
   GLU_REQUIRES="gl"
PKG_CHECK_MODULES(GL, [gl], [], [
   AC_CHECK_HEADER([GL/gl.h], [],
   AC_MSG_ERROR([GL not found]))
   AC_CHECK_LIB([GL], [glBegin],
   [GL_LIBS=-lGL],
   AC_MSG_ERROR([GL required]))
])
fi
AC_SUBST([GLU_REQUIRES])

dnl Set up C warning and visibility flags.
if test "x$GCC" = xyes; then
   WARNCFLAGS="-Wall"

   # Enable -fvisibility=hidden if using a gcc that supports it
   save_CFLAGS="$CFLAGS"
   AC_MSG_CHECKING([whether $CC supports -fvisibility=hidden])
   VISIBILITY_CFLAGS="-fvisibility=hidden"
   CFLAGS="$CFLAGS $VISIBILITY_CFLAGS"
   AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),
      [VISIBILITY_CFLAGS=""; AC_MSG_RESULT([no])]);

   # Restore CFLAGS; VISIBILITY_CFLAGS are added to it where needed.
   CFLAGS=$save_CFLAGS

if test "x$GXX" = xyes; then
   WARNCXXFLAGS="-Wall"

   # Enable -fvisibility=hidden if using a gcc that supports it
   save_CXXFLAGS="$CXXFLAGS"
   AC_MSG_CHECKING([whether $CXX supports -fvisibility=hidden])
   VISIBILITY_CXXFLAGS="-fvisibility=hidden"
   CXXFLAGS="$CXXFLAGS $VISIBILITY_CXXFLAGS"
   AC_LANG_PUSH([C++])
   AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),
      [VISIBILITY_CXXFLAGS=""; AC_MSG_RESULT([no])]);
   AC_LANG_POP([C++])

   # Restore CXXFLAGS; VISIBILITY_CXXFLAGS are added to it where needed.
### 1.847 libinput10 1.10.4-1ubuntu0.18.04.2

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### 1.852 types-paramiko 2.11.3

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Metadata-Version: 2.1
Name: types-paramiko
Version: 2.11.3
Summary: Typing stubs for paramiko
This is a PEP 561 type stub package for the `paramiko` package. It can be used by type-checking tools like mypy, PyCharm, pytype etc. to check code that uses `paramiko`. The source for this package can be found at https://github.com/python/typeshed/tree/master/stubs/paramiko. All fixes for types and metadata should be contributed there.

See https://github.com/python/typeshed/blob/master/README.md for more details.

This package was generated from typeshed commit `6348a58b8b950f894c9bd92f5ee55eeb521a0cbf`.

Found in path(s):
* `/opt/cola/permits/1384758724_1660699174.6210563/0/types-paramiko-2-11-3-tar-gz/types-paramiko-2.11.3/PKG-INFO`
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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-
jar/io/fabric8/kubernetes/client/VersionUsageUtils.java
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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-
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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/NetworkAPIGroupClient.java
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/dsl/Applicable.java
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/dsl/Gettable.java

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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/V1beta1AdmissionRegistrationAPIGroupDSL.java
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/dsl/internal/LogWatchCallback.java
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/informers/cache/Indexer.java
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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/AutoscalingAPIGroupClient.java
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/internal/readiness/Readiness.java
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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/dsl/internal/core/v1/ComponentStatusOperationsImpl.java
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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/utils/HttpClientUtils.java
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/dsl/internal/core/v1/ReplicationControllerRollingUpdater.java
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/dsl/internal/core/v1/ReplicationControllerOperationsImpl.java
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/io/fabric8/kubernetes/client/utils/ReplaceValueStream.java
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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/resource-handler.vm
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/resource-operation.vm
* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4-13-2-sources-jar/resource-handler-services.vm

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#
io.fabric8.kubernetes.client.AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
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#
io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl
io.fabric8.kubernetes.client.URLFromClusterIPImpl

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* /opt/cola/permits/1189735546_1643748554.84/0/kubernetes-client-4.13.2-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ServiceToURLProvider

1.857 libparted2 3.2-20ubuntu0.2
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Blog Blueprint
==============
You'll use the same techniques you learned about when writing the authentication blueprint to write the blog blueprint. The blog should list all posts, allow logged in users to create posts, and allow the author of a post to edit or delete it.

As you implement each view, keep the development server running. As you save your changes, try going to the URL in your browser and testing them out.

The Blueprint
------------
Define the blueprint and register it in the application factory.

.. code-block:: python
   :caption: ``flaskr/blog.py``

   from flask import (Blueprint, flash, g, redirect, render_template, request, url_for)
   from werkzeug.exceptions import abort
   from flaskr.auth import login_required
   from flaskr.db import get_db
bp = Blueprint('blog', __name__)

Import and register the blueprint from the factory using
:meth:`app.register_blueprint()` <Flask.register_blueprint>`. Place the
new code at the end of the factory function before returning the app.

.. code-block:: python
  :caption: "flaskr/__init__.py"

def create_app():
    app = ...
    # existing code omitted

    from . import blog
    app.register_blueprint(blog.bp)
    app.add_url_rule('/', endpoint='index')

    return app

Unlike the auth blueprint, the blog blueprint does not have a
``url_prefix``. So the ``index`` view will be at ``/``, the ``create``
view at ``/create`` , and so on. The blog is the main feature of Flaskr,
so it makes sense that the blog index will be the main index.

However, the endpoint for the ``index`` view defined below will be
``blog.index``. Some of the authentication views referred to a plain
``index`` endpoint. :meth:`app.add_url_rule()` <Flask.add_url_rule>
associates the endpoint name ``"index"`` with the ``/`` url so that
``url_for('index')`` or ``url_for('blog.index')`` will both work,
generating the same ``/`` URL either way.

In another application you might give the blog blueprint a
``url_prefix`` and define a separate ``index`` view in the application
factory, similar to the ``hello`` view. Then the ``index`` and
``blog.index`` endpoints and URLs would be different.

Index
-----

The index will show all of the posts, most recent first. A ``JOIN`` is
used so that the author information from the ``user`` table is
available in the result.

.. code-block:: python
  :caption: "flaskr/blog.py"
@bp.route('/')
def index():
    db = get_db()
    posts = db.execute(
        'SELECT p.id, title, body, created, author_id, username
         FROM post p JOIN user u ON p.author_id = u.id
         ORDER BY created DESC
    ).fetchall()
    return render_template('blog/index.html', posts=posts)

.. code-block:: html+jinja

    {% extends 'base.html' %}
    {% block header %}
    <h1>{% block title %}Posts{% endblock %}</h1>
    {% if g.user %}
    <a class="action" href="{{ url_for('blog.create') }}">New</a>
    {% endif %}
    {% endblock %}
    
    {% block content %}
    {% for post in posts %}
    <article class="post">
        <header>
            <div>
                <h1>{{ post['title'] }}</h1>
                <div class="about">by {{ post['username'] }} on {{ post['created'].strftime('%Y-%m-%d') }}</div>
            </div>
            {% if g.user['id'] == post['author_id'] %}
            <a class="action" href="{{ url_for('blog.update', id=post['id']) }}">Edit</a>
            {% endif %}
        </header>
        <p class="body">{{ post['body'] }}</p>
    </article>
    {% if not loop.last %}
    <hr>
    {% endif %}
    {% endfor %}
    {% endblock %}

When a user is logged in, the `header` block adds a link to the `create` view. When the user is the author of a post, they'll see an "Edit" link to the `update` view for that post. `loop.last` is a special variable available inside 'Jinja for loops'. It's used to display a line after each post except the last one, to visually separate them.
Create

------

The `create` view works the same as the auth `register` view. Either the form is displayed, or the posted data is validated and the post is added to the database or an error is shown.

The `login_required` decorator you wrote earlier is used on the blog views. A user must be logged in to visit these views, otherwise they will be redirected to the login page.

.. code-block:: python
   :caption: "flaskr/blog.py"

```python
@bp.route('/create', methods=('GET', 'POST'))
@login_required
def create():
    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

        if not title:
            error = 'Title is required.'

        if error is not None:
            flash(error)
        else:
            db = get_db()
            db.execute(
                'INSERT INTO post (title, body, author_id)
                VALUES (?, ?, ?)',
                (title, body, g.user['id'])
            )
            db.commit()
            return redirect(url_for('blog.index'))
    return render_template('blog/create.html')
```

.. code-block:: html+jinja
   :caption: "flaskr/templates/blog/create.html"

```html
{% extends 'base.html' %}
```

[Open Source Used In 5GaaS Edge 9.70 10058]
Update
------

Both the `update` and `delete` views will need to fetch a `post` by `id` and check if the author matches the logged in user. To avoid duplicating code, you can write a function to get the `post` and call it from each view.

.. code-block:: python
   :caption: `flaskr/blog.py`

```python
def get_post(id, check_author=True):
    post = get_db().execute(
        'SELECT p.id, title, body, created, author_id, username
         FROM post p JOIN user u ON p.author_id = u.id
         WHERE p.id = ?
         ', (id,
         ).fetchone()

    if post is None:
        abort(404, f"Post id {id} doesn't exist.")

    if check_author and post['author_id'] != g.user['id']:
        abort(403)

    return post
```

`abort` will raise a special exception that returns an HTTP status code. It takes an optional message to show with the error, otherwise a default message is used. ``404`` means "Not Found", and ``403`` means "Forbidden". ``401`` means "Unauthorized", but you redirect to the login page instead of returning that status.)
The `check_author` argument is defined so that the function can be used to get a `post` without checking the author. This would be useful if you wrote a view to show an individual post on a page, where the user doesn't matter because they're not modifying the post.

```python
@bp.route('/<int:id>/update', methods=('GET', 'POST'))
@login_required
def update(id):
    post = get_post(id)

    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

        if not title:
            error = 'Title is required.'

        if error is not None:
            flash(error)
        else:
            db = get_db()
            db.execute(
                'UPDATE post SET title = ?, body = ?
                 WHERE id = ?
              ', (title, body, id))
            db.commit()
            return redirect(url_for('blog.index'))
    else:
        db = get_db()
        db.execute(
            'UPDATE post SET title = ?, body = ?
             WHERE id = ?
          ', (title, body, id))
        db.commit()
        return render_template('blog/update.html', post=post)
```

Unlike the views you've written so far, the `update` function takes an argument, `id`. That corresponds to the `<int:id>` in the route. A real URL will look like `/1/update`. Flask will capture the `1`, ensure it's an :class:`int`, and pass it as the `id` argument. If you don't specify `int:`, and instead do `<id>`, it will be a string.

To generate a URL to the update page, :func:`url_for` needs to be passed the `id` so it knows what to fill in:

`url_for('blog.update', id=post['id'])`. This is also in the `index.html` file above.

The `create` and `update` views look very similar. The main difference is that the `update` view uses a `post` object and an `UPDATE` query instead of an `INSERT`. With some clever refactoring,
you could use one view and template for both actions, but for the
tutorial it's clearer to keep them separate.

.. code-block:: html+jinja

    {% extends 'base.html' %}
    
    {% block header %}
    <h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
    {% endblock %}
    
    {% block content %}
    <form method="post">
        <label for="title">Title</label>
        <input name="title" id="title"
        value="{{ request.form['title'] or post['title'] }}" required>
        <label for="body">Body</label>
        <textarea name="body" id="body">{{ request.form['body'] or post['body'] }}</textarea>
        <input type="submit" value="Save">
    </form>
    
    <hr>
    <form action="{{ url_for('blog.delete', id=post['id']) }}" method="post">
        <input class="danger" type="submit" value="Delete" onclick="return confirm('Are you sure?');">
    </form>
    
    {% endblock %}

This template has two forms. The first posts the edited data to the
current page (`/<id>/update`). The other form contains only a button
and specifies an `action` attribute that posts to the delete view
instead. The button uses some JavaScript to show a confirmation dialog
before submitting.

The pattern `{{ request.form['title'] or post['title'] }}` is used to
choose what data appears in the form. When the form hasn't been
submitted, the original `post` data appears, but if invalid form data
was posted you want to display that so the user can fix the error, so
`request.form` is used instead. :data:`request` is another variable
that's automatically available in templates.

Delete
------

The delete view doesn't have its own template, the delete button is part
of `update.html` and posts to the `/<id>/delete` URL. Since there
is no template, it will only handle the `POST` method and then redirect
to the `index` view.
.. code-block:: python
   :caption: ``flaskr/blog.py``

@bp.route('/<int:id>/delete', methods=('POST',))
@login_required
def delete(id):
    get_post(id)
    db = get_db()
    db.execute('DELETE FROM post WHERE id = ?', (id,))
    db.commit()
    return redirect(url_for('blog.index'))

Congratulations, you've now finished writing your application! Take some
time to try out everything in the browser. However, there's still more
to do before the project is complete.

Continue to :doc:`install`.

Found in path(s):
* /opt/cola/permits/1271883594_1649054873.91/0/flask-2-0-3-tar-gz/Flask-2.0.3/docs/tutorial/blog.rst

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

[metadata]
name = Flask
version = attr: flask.__version__
url = https://palletsprojects.com/p/flask
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://flask.palletsprojects.com/
    Changes = https://flask.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/flask/
    Issue Tracker = https://github.com/pallets/flask/issues/
    Twitter = https://twitter.com/PalletsTeam
    Chat = https://discord.gg/pallets
license = BSD-3-Clause
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A simple framework for building complex web applications.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Web Environment
    Framework :: Flask
    Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Internet :: WWW/HTTP :: WSGI
Topic :: Internet :: WWW/HTTP :: WSGI :: Application
Topic :: Software Development :: Libraries :: Application Frameworks

[options]
packages = find:
    package_dir = = src
    include_package_data = True
    python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
console_scripts =
    flask = flask.cli:main

[tool:pytest]
testpaths = tests
    filterwarnings =
        error

[coverage:run]
branch = True
source =
    flask
tests

[coverage:paths]
source =
    src
    */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
    E203
    E402
    E501
    E722
    W503
max-line-length = 80
per-file-ignores =
    src/flask/__init__.py: F401
[mypy]
files = src/flask
python_version = 3.6
show_error_codes = True
allow_redefinition = True
disable_subclassing_any = True
no_implicit_optional = True
local_partial_types = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True

[mypy-asgiref.*]
ignore_missing_imports = True

[mypy-blinker.*]
ignore_missing_imports = True

[mypy-dotenv.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1271883594_1649054873.91/0/flask-2.0-3.tar.gz/Flask-2.0.3/setup.cfg
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* /opt/cola/permits/1271883594_1649054873.91/0/flask-2-0-3-tar-gz/Flask-2.0.3/examples/tutorial/LICENSE.rst
* /opt/cola/permits/1271883594_1649054873.91/0/flask-2-0-3-tar-gz/Flask-2.0.3/examples/javascript/LICENSE.rst
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Flask Extension Development
============================

Flask, being a microframework, often requires some repetitive steps to get a third party library working. Many such extensions are already available on `PyPI`.

If you want to create your own Flask extension for something that does not exist yet, this guide to extension development will help you get your extension running in no time and to feel like users would expect your extension to behave.

Anatomy of an Extension
-----------------------

Extensions are all located in a package called `flask_something` where "something" is the name of the library you want to bridge. So for example if you plan to add support for a library named `simplexml` to Flask, you would name your extension's package `flask_simplexml`.

The name of the actual extension (the human readable name) however would be something like "Flask-SimpleXML". Make sure to include the name "Flask" somewhere in that name and that you check the capitalization. This is how users can then register dependencies to your extension in their :file:`setup.py` files.

But what do extensions look like themselves? An extension has to ensure that it works with multiple Flask application instances at once. This is a requirement because many people will use patterns like the :doc:`/patterns/appfactories` pattern to create their application as needed to aid unittests and to support multiple configurations. Because of that it is crucial that your application supports that kind of behavior.

Most importantly the extension must be shipped with a :file:`setup.py` file and registered on PyPI. Also the development checkout link should work so that people can easily install the development version into their virtualenv without having to download the library by hand.

Flask extensions must be licensed under a BSD, MIT or more liberal license in order to be listed in the Flask Extension Registry. Keep in mind that the Flask Extension Registry is a moderated place and libraries will be reviewed upfront if they behave as required.

"Hello Flaskext!"
-----------------

So let's get started with creating such a Flask extension. The extension
we want to create here will provide very basic support for SQLite3.

First we create the following folder structure::

    flask-sqlite3/
        flask_sqlite3.py
        LICENSE
        README

Here's the contents of the most important files:

setup.py
```````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````
That's a lot of code but you can really just copy/paste that from existing extensions and adapt.

```
flask_sqlite3.py
```

Now this is where your extension code goes. But how exactly should such an extension look like? What are the best practices? Continue reading for some insight.

**Initializing Extensions**

Many extensions will need some kind of initialization step. For example, consider an application that's currently connecting to SQLite like the documentation suggests (:doc:`/patterns/sqlite3`). So how does the extension know the name of the application object?

Quite simple: you pass it to it.

There are two recommended ways for an extension to initialize:

**initialization functions:**

If your extension is called `helloworld` you might have a function called `init_helloworld(app[, extra_args])` that initializes the extension for that application. It could attach before / after handlers etc.

**classes:**

Classes work mostly like initialization functions but can later be used to further change the behavior.

What to use depends on what you have in mind. For the SQLite 3 extension we will use the class-based approach because it will provide users with an object that handles opening and closing database connections.

When designing your classes, it's important to make them easily reusable
at the module level. This means the object itself must not under any
circumstances store any application specific state and must be shareable
between different applications.

The Extension Code
-------------------

Here's the contents of the `flask_sqlite3.py` for copy/paste::

```python
import sqlite3
from flask import current_app, _app_ctx_stack

class SQLite3(object):
    def __init__(self, app=None):
        self.app = app
        if app is not None:
            self.init_app(app)

    def init_app(self, app):
        app.config.setdefault('SQLITE3_DATABASE', ':memory:)
        app.teardown_appcontext(self.teardown)

    def connect(self):
        return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])

    def teardown(self, exception):
        ctx = _app_ctx_stack.top
        if hasattr(ctx, 'sqlite3_db'):
            ctx.sqlite3_db.close()

    @property
    def connection(self):
        ctx = _app_ctx_stack.top
        if ctx is not None:
            if not hasattr(ctx, 'sqlite3_db'):
                ctx.sqlite3_db = self.connect()
            return ctx.sqlite3_db

So here's what these lines of code do:

1. The `__init__` method takes an optional app object and, if supplied, will
call `init_app`.
2. The `init_app` method exists so that the `SQLite3` object can be
instantiated without requiring an app object. This method supports the
factory pattern for creating applications. The `init_app` will set the
configuration for the database, defaulting to an in memory database if
no configuration is supplied. In addition, the ```init_app``` method attaches the ```teardown``` handler.

3. Next, we define a ```connect``` method that opens a database connection.
4. Finally, we add a ```connection``` property that on first access opens the database connection and stores it on the context. This is also the recommended way to handling resources: fetch resources lazily the first time they are used.

Note here that we're attaching our database connection to the top application context via ```_app_ctx_stack.top```. Extensions should use the top context for storing their own information with a sufficiently complex name.

So why did we decide on a class-based approach here? Because using our extension looks something like this::

```python
from flask import Flask
from flask_sqlite3 import SQLite3

app = Flask(__name__)
app.config.from_pyfile('the-config.cfg')
db = SQLite3(app)
```

You can then use the database from views like this::

```python
@app.route('/')
def show_all():
    cur = db.connection.cursor()
    cur.execute(...)
```

Likewise if you are outside of a request you can use the database by pushing an app context::

```python
with app.app_context():
    cur = db.connection.cursor()
    cur.execute(...)
```

At the end of the ```with``` block the teardown handles will be executed automatically.

Additionally, the ```init_app``` method is used to support the factory pattern for creating apps::

```python
db = SQLite3()
# Then later on.
app = create_app('the-config.cfg')
db.init_app(app)
```
Keep in mind that supporting this factory pattern for creating apps is required for approved flask extensions (described below).

.. admonition:: Note on ``init_app``

As you noticed, ``init_app`` does not assign ``app`` to ``self``. This is intentional! Class based Flask extensions must only store the application on the object when the application was passed to the constructor. This tells the extension: I am not interested in using multiple applications.

When the extension needs to find the current application and it does not have a reference to it, it must either use the :data:`flask.current_app` context local or change the API in a way that you can pass the application explicitly.

Using _app_ctx_stack
---------------------

In the example above, before every request, a ``sqlite3_db`` variable is assigned to ``_app_ctx_stack.top``. In a view function, this variable is accessible using the ``connection`` property of ``SQLite3``. During the teardown of a request, the ``sqlite3_db`` connection is closed. By using this pattern, the *same* connection to the sqlite3 database is accessible to anything that needs it for the duration of the request.

Learn from Others
-----------------

This documentation only touches the bare minimum for extension development. If you want to learn more, it's a very good idea to check out existing extensions on the `PyPI`_. If you feel lost there is still the `mailinglist`_ and the `Discord server`_ to get some ideas for nice looking APIs. Especially if you do something nobody before you did, it might be a very good idea to get some more input. This not only generates useful feedback on what people might want from an extension, but also avoids having multiple developers working in isolation on pretty much the same problem.

Remember: good API design is hard, so introduce your project on the mailing list, and let other developers give you a helping hand with designing the API.

The best Flask extensions are extensions that share common idioms for the API. And this can only work if collaboration happens early.

Approved Extensions
Flask previously had the concept of approved extensions. These came with some vetting of support and compatibility. While this list became too difficult to maintain over time, the guidelines are still relevant to all extensions maintained and developed today, as they help the Flask ecosystem remain consistent and compatible.

0. An approved Flask extension requires a maintainer. In the event an extension author would like to move beyond the project, the project should find a new maintainer and transfer access to the repository, documentation, PyPI, and any other services. If no maintainer is available, give access to the Pallets core team.

1. The naming scheme is *Flask-ExtensionName* or *ExtensionName-Flask*. It must provide exactly one package or module named `flask_extension_name`.

2. The extension must be BSD or MIT licensed. It must be open source and publicly available.

3. The extension's API must have the following characteristics:

   - It must support multiple applications running in the same Python process. Use `current_app` instead of `self.app`, store configuration and state per application instance.
   - It must be possible to use the factory pattern for creating applications. Use the `ext.init_app()` pattern.

4. From a clone of the repository, an extension with its dependencies must be installable with `pip install -e .`.

5. It must ship a testing suite that can be invoked with `tox -e py` or `pytest`. If not using `tox`, the test dependencies should be specified in a `requirements.txt` file. The tests must be part of the sdist distribution.

6. The documentation must use the `flask` theme from the official Pallets Themes. A link to the documentation or project website must be in the PyPI metadata or the readme.

7. For maximum compatibility, the extension should support the same versions of Python that Flask supports. 3.6+ is recommended as of 2020. Use `python_requires=">= 3.6"` in `setup.py` to indicate supported versions.

.. _PyPI: https://pypi.org/search/?c=Framework+%3A%3A+Flask
.. _mailinglist: https://mail.python.org/mailman/listinfo/flask
.. _Discord server: https://discord.gg/pallets
.. _Official Pallets Themes: https://pypi.org/project/Pallets-Sphinx-Themes/

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* /opt/cola/permits/1271883594_1649054873.91/0/flask-2.0.3-tar-gz/Flask-2.0.3/docs/extensiondev.rst
Flask

Flask is a lightweight `WSGI`_ web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications. It began as a simple wrapper around `Werkzeug`_ and `Jinja`_ and has become one of the most popular Python web application frameworks.

Flask offers suggestions, but doesn't enforce any dependencies or project layout. It is up to the developer to choose the tools and

.. _WSGI: https://www.python.org/dev/peps/pep-3339/
.. _Werkzeug: https://werkzeug.readthedocs.io/
.. _Jinja: https://palletsprojects.com/p/jinja/

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libraries they want to use. There are many extensions provided by the community that make adding new functionality easy.

.. _WSGI: https://wsgi.readthedocs.io/
.. _Werkzeug: https://werkzeug.palletsprojects.com/
.. _Jinja: https://jinja.palletsprojects.com/

Installing
----------

Install and update using `pip`_

.. code-block:: text

    $ pip install -U Flask


A Simple Example
----------------

.. code-block:: python

    # save this as app.py
    from flask import Flask
    app = Flask(__name__)

    @app.route("/")
    def hello():
        return "Hello, World!"

.. code-block:: text

    $ flask run
    * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

Contributing
------------

For guidance on setting up a development environment and how to make a contribution to Flask, see the `contributing guidelines`_

.. _contributing guidelines: https://github.com/pallets/flask/blob/main/CONTRIBUTING.rst
The Pallets organization develops and supports Flask and the libraries it uses. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`.

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Links
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- Documentation: https://flask.palletsprojects.com/
- Changes: https://flask.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Flask/
- Source Code: https://github.com/pallets/flask/
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Flask leverages Jinja2 as its template engine. You are obviously free to use

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

File used: flan-2.0.3.tar.gz/Flask-2.0.3

### 1.859 elfutils 0.170-0.4ubuntu0.1

1.859.1 Available under license:

```
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tomb - support for clean goroutine termination in Go.

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#
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#
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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
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src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
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```
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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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)
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the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

e) Verify that the user has already received a copy of these
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which the executable runs, unless that component itself accompanies
the executable.

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#
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#
docs/FTL.TXT
docs/GPLv2.TXT
#
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
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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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2.1.3 2.1.2 2002 PSF yes
2.2 and above 2.1.1 2001-now PSF yes

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(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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1.903 libxcb-sync-dev 1.13-2~ubuntu18.04

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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
THREADSCCPPFLAGS = -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 $@ $<

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

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

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

## Versioned libraries rules
%.so$(SO_TARGET_VERSION_MAJOR): %.so$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.so: %.so$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.so$(SO_TARGET_VERSION) $@

## Bind internal references

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

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

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

## End BSD-specific setup
This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

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AES in libhcrypto

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rijndael-alg-fst.c

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@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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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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1.930 libxkbcommon 0.8.2-1~ubuntu18.04.1

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1.934 shim 13-0ubuntu2

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1.935 ruby-did-you-mean 1.2.0-2

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    'freedreno_layout',
    [  
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
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1.943 fonts-ubuntu 0.83-2
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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

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

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family,
the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

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

Licensing

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

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

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

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

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

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):
* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:
* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

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

Long-term licensing

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

* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

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

Ubuntu Font Licence

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

* Clarification:

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

Streamlining:
8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration
A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors

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1.944 mux 1.7.3

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1.945 ipxe-qemu-256k-compat 1.0.0+git-20150424.a25a16d-0ubuntu2

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1.946 linux-atm 2.5.1-2build1

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

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
  traditional one-character options, and GNU'ish
  --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/

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Alternate-site:sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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------------------------------------------------------------------------------

1.949 jackson-xc 2.13.2
1.949.1 Available under license:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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// Derived from FUSE's fuse_kernel.h
/

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1.957 zlib 1.0.0

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1.958 pax-utils 1.2.4-r0

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import io
from os import path
import re

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

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

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
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        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 3',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
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python-webencodings
This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

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

In order to be compatible with legacy web content

when interpreting something like "Content-Type: text/html; charset=latin1",
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.

For example, "US-ASCII" and "iso-8859-1" on the web are actually
aliases for "windows-1252", and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.

The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,

but the actual implementation for encoders and decoders is Pythons.

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This is a Python implementation of the `WHATWG Encoding standard`_.

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

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python :: 3
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Found in path(s):
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```
webencodings.mklabels

Regenerate the webencodings.labels module.
```
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

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

def generate(url):
    parts = ['''
    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~~
    Map encoding labels to their name.
    
    :copyright: Copyright 2012 by Simon Sapin
    :license: BSD, see LICENSE for details.
    
    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

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

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

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings/mklabels.py

1.960 libnfnetlink 1.0.1 3
1.960.1 Available under license :

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

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1.965 tdb 1.44.1

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Gocheck - A rich testing framework for Go

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

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go-runhcs is a fork of go-runc

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```
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runc

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1.975 kubernetes v1.25.0-alpha.2

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import "time"

// FeatureType store features types
type FeatureType string

const (
// HA means High Availability
HA = FeatureType("HA")
// DEV means developer licence
DEV = FeatureType("DEV")
// TRIAL means trial licence
TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID string         `json:"arrayUUID,omitempty"
    ClusterID  string         `json:"clusterID,omitempty"
    CustomerID string         `json:"customerID"
    CustomerName string       `json:"customerName"
    Storage    int            `json:"storage"
    ValidUntil time.Time      `json:"validUntil"
    LicenceType string        `json:"licenceType"
    Features   map[FeatureType]bool `json:"features"
    Unregistered bool         `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

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SOFTWARE.

package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "%v" , n.Plugin)
    } else {
        s += fmt.Sprintf("Option "%v" in plugin "%v" , n.Option, n.Plugin)
        }
    if n.Severity == SevUnsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    }

    return s
}
} else if n.Severity == SevNewDefault {
    s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (  // The following statuses are used to indicate the state of support/deprecation in a given release.
    SevDeprecated = "deprecated" // deprecated, but still completely functional
    SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    SevNewDefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

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= vendor/github.com/mindprince/gonvml/LICENSE 3b83ef96387f14655fc854ddc3c6bd57
package storageos

import (
    "encoding/json"
    "github.com/storageos/go-api/types"
)

const (
    // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions[]) // licenceAPIPrefix is a partial path to the HTTP endpoint.
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{}
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
        return nil, err
    }
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
_, err := c.do("POST", licenceAPIPrefix, doOptions{
data: &types.LicenceKeyContainer{Key: licenceKey},
})
return err

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})
if err != nil {
return err
}
return resp.Body.Close()
}

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===========================================================================
The common/types/pb/equal.go modification of proto.Equal logic
===========================================================================

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tomb - support for clean goroutine termination in Go.

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
}
Properties: []types.KeyAnyValue{
    Key: "feature",
    Value: types.KeyValue{
        Key: "serialuri:2",
        Value: "Remote virtual Serial Port Concentrator",
    },
    
    Key: "feature",
    Value: types.KeyValue{
        Key: "dvs",
        Value: "vSphere Distributed Switch",
    },
    
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref
    }
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }
    
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{ },
    }
    
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{ },
LicenseKey: req.LicenseKey,
Labels: req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{ },
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
    m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
    return body
}
}
return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
body := &methods.UpdateLicenseLabelBody{ }

for i := range m.Licenses {
    license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
        continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)

    for j := range license.Labels {
        label := &license.Labels[j]

        if label.Key == req.LabelKey {
            if req.LabelValue == "" {
                license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
            } else {
                label.Value = req.LabelValue
            }
            return body
        }
    }
}
license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
info-LicenseKey = key
info.Labels = labels

return info
}

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Protocol Buffers for Go with Gadgets

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

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procfs provides functions to retrieve system, kernel and process
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1.979 go-openapi-spec 0.19.3

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package spec

import "testing"

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

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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

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    'freedreno_layout',
    [
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
    build_by_default : false,
)

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package spec

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative 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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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:
a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.


You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

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d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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 Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)


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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/ licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
    }
}
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
]
name: License Scan

on: [pull_request]

jobs:
  licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.9]
        steps:
          - name: Checkout target
            uses: actions/checkout@v2
            with:
              path: sdkbase
              ref: ${{ github.base_ref }}
          - name: Checkout this ref
            uses: actions/checkout@v2
            with:
              path: new-ref
              fetch-depth: 0
          - name: Get Diff
            run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }} ${{ github.sha }} > refDiffFiles.txt
          - name: Get Target Files
            run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
          - name: Checkout scancode
            uses: actions/checkout@v2
            with:
              repository: nexB/scancode-toolkit
              path: scancode-toolkit
              fetch-depth: 1
          - name: Set up Python ${ matrix.python-version }
            uses: actions/setup-python@v2
            with:
              python-version: ${ matrix.python-version }
          - name: Self-configure scancode
            working-directory: ./scancode-toolkit
            run: ./scancode --help
          - name: Run Scan code on target
            run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
 toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
   - name: Run Scan code on pr ref
     run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
   # compare
   - name: License test
     run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {    if params == nil {        params = &CheckInLicenseInput{}    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, c.addOperationCheckInLicenseMiddlewares)
    if err != nil {        return nil, err    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
    // // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
type CheckInLicenseOutput struct {
  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) error {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
  return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import {
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}
// Removes the Grafana Enterprise license from a workspace.

func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns, c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {
    // The type of license to remove from the workspace.
    // // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    // // This member is required.
    WorkspaceId *string
}

type DisassociateLicenseOutput struct {
    // A structure containing information about the workspace.
    // // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDisassociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "DisassociateLicense",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/ licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

    noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string
type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// Checkout type.
type CheckoutLicenseInput struct {

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    return err
    }
    return nil

    func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
        return &awsmiddleware.RegisterServiceMetadata{
            Region:        region,
            ServiceID:     ServiceID,
            SigningName:   "license-manager",
            OperationName: "CheckoutBorrowLicense",
        }
    }

    // Code generated by smithy-go-codegen DO NOT EDIT.

    package licensemanager

    import ("context")

    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

    // Checks out the specified license.
    func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
        if params == nil {
            params = &CheckoutLicenseInput{
        }
        
        result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, 
        c.addOperationCheckoutLicenseMiddlewares)
        if err != nil {
            return nil, err
        }
        
        out := result.(*CheckoutLicenseOutput)
        out.ResultMetadata = metadata
        return out, nil
    }

    type CheckoutLicenseInput struct {

        // Checkout type.
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
// This member is required.
ClientToken *string

// License entitlements.
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
// This member is required.
KeyFingerprint *string

// Product SKU.
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string
// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import {
    "context"
    awsourcemiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
} }

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{} 
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32
func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieveMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    // This member is required.
    SourceVersion *string
}

type DeleteLicenseOutput struct {
    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus
}
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string

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}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
    if err != nil {
        return err
    }

err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "AssociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }
    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string
// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    return
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addClientUserAgentMiddleware(stack); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

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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>
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DES core in libhcrypto

D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


Windows support

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lib/hcrypto/test_dh.c

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1.1020 libnl-cli-3-200 3.2.29-0ubuntu3

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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
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1.1032 libxfixes 5.0.3-1

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1.1033 libsm 1.2.2-1

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1.1034 simpleclient_tracer_common 0.12.0

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1.1035 waitress 2.0.0

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1.1036 git 2.17.1-1ubuntu0.9

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1.1043 x-sys 0.0.0-20220520151302-bc2c85ada10a

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1.1044 jackson-databind 2.13.2.2

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1.1045 tre 1.1.19-1

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AES in libhcrypto
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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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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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lib/hcrypto/test_dh.c

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    [  
        'fd6_layout.c',
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    ],
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    c_args : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
    build_by_default : false,
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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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Section 6 states terms for distribution of such executables.

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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
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1.1055 docker-compose 1.27.4

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1.1056 libtls-standalone 2.9.1-r0

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1.1064 curl 7.58.0 2ubuntu3.18
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   License Mixing
   =============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BS-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

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## GnuTLS

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## BoringSSL

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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 * Written by Adam Twiss (adam@zeus.co.uk). March 1996
 * Thanks to the following people for their input:
 * Mike Belshe (mbelshe@netscape.com)
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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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#
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/*
 json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)

For the lib/cpp/src/thrift/windows/SocketPair.cpp

/* socketpair.c
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 * this copyright notice must be retained, unchanged, in its entirety. If
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 */

For the lib/py/compat/win32/stdint.h

// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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--------------------------------------------------
Codegen template in t_html_generator.h

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* Designed and built with all the love in the world @twitter by @mdo and @fat.

--------------------------------------------------
For t_cl_generator.cc

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

1.1075 python-minimal 3.6.7-1~18.04
1.1075.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

A. HISTORY OF THE SOFTWARE

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

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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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
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In May 2000, Guido and the Python core development team moved to
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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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----------------

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

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

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-------

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Version 3, 29 June 2007

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# docs/FTL.TXT
docs/GPLv2.TXT

# 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
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THE BASIC LIBRARY FUNCTIONS
-----------------------------

Written by:  Philip Hazel
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1.1085 squirrel 1.4.0

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
- trivial database library - private includes

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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# 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)
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007
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Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)
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   Version 2.1, February 1999

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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
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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
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DRuntime: Runtime Library for the D Programming Language

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1.1108 linux_kernel_zlib 5.4.0-100-generic

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * 
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * 
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * 
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*
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(For 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
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* @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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1.1124 pynacl 1.5.0

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1.1125 x-time-rate 0.0.0-20211116232009-f0f3c7e86c11

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1.1126 gogoprotobuf 1.3.1

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1.1128 aws-sdk-go-v2 1.11.3

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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
    return result, err
}
if err != nil {
    return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //
    // * Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string

    noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSsignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
    return err
}

if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}

if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}

if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}

return nil

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) 
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

name: License Scan

on: [pull_request]

jobs:

licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
        matrix:
            python-version: [3.9]

steps:
    - name: Checkout target
        uses: actions/checkout@v2
        with:
            path: sdkbase
            ref: ${{ github.base_ref }}

    - name: Checkout this ref
        uses: actions/checkout@v2
        with:
            path: new-ref
- name: Get Diff
  run: git --git-dir ./<new-ref>.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }} > refDiffFiles.txt

- name: Get Target Files
  run: git --git-dir ./<sdkbase>.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt

- name: Checkout scancode
  uses: actions/checkout@v2
  with:
    repository: nexB/scancode-toolkit
    path: scancode-toolkit
  fetch-depth: 1

- name: Set up Python
  uses: actions/setup-python@v2
  with:
    python-version: {{ matrix.python-version }}

# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help

- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./<sdkbase>$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt

- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./<new-ref>$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt

- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{}
    }
}
result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, c.addOperationCheckInLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil

// License consumption token.
// // // This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil}
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (  
    "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{
    }
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns, c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DisassociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
}
// This member is required.
WorkspaceId *string

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}

type DisassociateLicenseOutput struct {

// A structure containing information about the workspace.

// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDisassociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "grafana",
        OperationName: "DisassociateLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
if params == nil {
params = &GetLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
if err != nil {


return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil

}

return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil

}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
return err
}
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err 
}  
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err 
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err 
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err 
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err 
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err 
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err 
}
if err = addClientUserAgent(stack); err != nil {
    return err 
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err 
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err 
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err 
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err 
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err 
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err 
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err 
}
return nil 
}
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.

    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with

// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

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}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string
// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {

return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region:        region,
ServiceID:     ServiceID,
SigningName:   "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"  
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)
// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddleware(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

AWS SDK for Go
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package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares()
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// * Beneficiary
// * ProductSKU
// * Fingerprint
// * Status

Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

func addRequestResponseLogging(stack, options) error {
  if err = addRequestResponseLogging(stack, options); err != nil {
    return err
  }
  return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
  return &awsmiddleware.RegisterServiceMetadata{
    Region: region,
    ServiceID: ServiceID,
    SigningName: "license-manager",
    OperationName: "ListLicenses",
  }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
  if params == nil {
    params = &DeleteLicenseInput{}
  }
  result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, c.addOperationDeleteLicenseMiddlewares)
  if err != nil {
    return nil, err
  }
  out := result.(*DeleteLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type DeleteLicenseInput struct {
// Amazon Resource Name (ARN) of the license.
//
// This member is required.
LicenseArn *string

// Current version of the license.
//
// This member is required.
SourceVersion *string

type DeleteLicenseOutput struct {
    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
  if params == nil {
    params = &AssociateLicenseInput{
  }

  result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*AssociateLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type AssociateLicenseInput struct {
  // The type of license to associate with the workspace.
  // This member is required.
  LicenseType types.LicenseType

  // The ID of the workspace to associate the license with.
  // This member is required.
}
WorkspaceId *string

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}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{} , middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{} , middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "AssociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
        c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    // // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    // // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    // //
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

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

Preamble

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

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

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

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

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

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

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

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
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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```
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g密封.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
and the initial implementation of incremental propagation, including the following new or changed files:

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

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1.1157 libjson-c3 0.12.1-1.3ubuntu0.3
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1.1158 libxcb-dri3-0 1.13-2~ubuntu18.04
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1.1159 keyutils 1.5.9 9.2ubuntu2

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  jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1301917043_1649305306.33/0/netty-transport-native-epoll-4-1-75-final-sources-1-
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jar/lombok/javac/handlers/HandleNonNull.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
jar/lombok/eclipse/handlers/HandleBuilder.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
jar/lombok/javac/java8/CommentCollectingTokenizer.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
jar/lombok/javac/handlers/HandleBuilder.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
jar/lombok/installer/eclipse/JbdsLocationProvider.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
jar/lombok/eclipse/handlers/HandleJacksonized.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
jar/lombok/installer/eclipse/RhdsLocationProvider.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/OsUtils.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/eclipse/EclipseProductLocationProvider.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/IdeLocation.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/TestBase.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/TestEclipse.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/bytecode/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/runtimeDependencies/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/AgentLauncher.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
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  jar/lombok/eclipse/handlers/HandleStandardException.java
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  jar/lombok/javac/handlers/HandleWithBy.java
  */opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-
  jar/lombok/installer/eclipse/RhcrlLocationProvider.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/TreeMirrorMaker.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/bytecode/AsmUtil.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/HandleJacksonized.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/Cleanup.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/SneakyThrows.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/InstallerGUI.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/Lombok.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/package-info.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleLog.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/RunTestsViaEcj.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/bytecode/SneakyThrowsRemover.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/bytecode/PreventNullAnalysisRemover.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleConstructor.java

jar/lombok/installer/eclipse/EclipseProductLocation.java
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*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/singualars/JavacJavaUtilSingularizer.java
*/opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/singualars/JavacJavaUtilListSetSingularizer.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/LombokInternalAliasing.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/configuration/ConfigurationDataType.java
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jar/lombok/javac/handlers/singualars/JavacGuavaSingularizer.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/val.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/NoArgsConstructor.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/Delegate.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/var.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/LogFile.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/RequiredArgsConstructor.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/extern/apachecommons/CommonsLog.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/configuration/BubblingConfigurationResolver.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/configuration/ConfigurationParser.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/TypeResolver.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/handlers/InclusionExclusionUtils.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/HandlerLibrary.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/AbstractRunTests.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/HandlerLibrary.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/ExtensionMethod.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/Accessors.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/Value.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/FieldDefaults.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/eclipse/STS4LocationProvider.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/CorruptedIdeLocationException.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/RuntimeDependencyInfo.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/WindowsDriveInfo.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/apt/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/package-info.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/AccessLevel.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/package-info.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/AlreadyHandledAnnotations.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/apt/Javac9JavaFileObjectWrapper.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/delombok/FormatPreferenceScanner.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/CapturingDiagnosticListener.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/java6/CommentCollectingParser.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/java8/CommentCollectingParserFactory.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/java7/CommentCollectingParserFactory.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/experimental/Helper.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/configuration/CallSuperType.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/EclipseJavaUtilSingularizer.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/RunCoreTests.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/handlers/Singualars.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/debug/AssertionLogger.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/EclipseLoaderPatcher.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/EclipseLoaderPatcherTransplants.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/PatchFixesShadowLoaded.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/Javac9BasedLombokOptions.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/PackageName.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/JavacResolution.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/java8/CommentCollectingScannerFactory.java

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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/configuration/ConfigurationFile.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/installer/UninstallException.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/apt/MessagerDiagnosticsReceiver.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/delombok/Delombok.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/AST.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/EclipseASTAdapter.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/EclipseASTVisitor.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/JavacASTVisitor.java
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* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/HandleFieldDefaults.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/core/PublicApiCreatorApp.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleExtensionMethod.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleFieldDefaults.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleValue.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/PatchDelegatePortal.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/PatchExtensionMethod.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/bytecode/PoolConstantsApp.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/javac/handlers/HandleValue.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleValue.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/PatchAccessors.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/agent/PatchExtensionMethod.java
* /opt/cola/permits/1221016694_1635406611.86/0/lombok-1-18-22-sources-jar/lombok/eclipse/handlers/HandleWith.java

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GSS-API mechglue layer.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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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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A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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That's all there is to it!

/* 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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    'freedreno_layout',
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     'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
    build_by_default : false,
)

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1.1188 iso-codes 3.79-1
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1.1190 icu 60.2 3ubuntu3.2

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPI

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$($SHELL) -ec "$(GEN_DEPS.c) $< \n| sed \"s/\$(\*\*)\./o:]*/\l.o $@ : /g\" > $@;\" \n[ -s $@ ] \|| rm -f $@"
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$\{SHELL\} -ec "\$(GEN_DEPS.cc) $< \n | sed ""s\($\*)\(.*\)\.o :/g\" > $@; \n [ -s $@ ] \| rm -f $@"

## Versioned libraries rules

%.+$\{SO\}.+$\{SO\}_TARGET_VERSION\_MAJOR\_SO\}: %.+$\{SO\}.+$\{SO\}_TARGET_VERSION\_SO
$\{RM\} $@ && ln -s $\{<F\} $@
%.+$\{SO\}: %.+$\{SO\}_TARGET_VERSION\_MAJOR\_SO
$\{RM\} $@ && ln -s $\{<F\}.$\{SO\}_TARGET_VERSION\_SO $@

## 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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AES in libhcrypto

rijndael-alg-fst.c

version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

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A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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lib/hcrypto/test_dh.c

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1.1201 go-toml 1.9.3

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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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1.1203 libnuma 2.0.11 2.1ubuntu0.1
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1.1207 python3-6-minimal 3.6.9-1~18.04ubuntu1.6

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

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

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

Before using, initialize the state by using init_genrand(seed)
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Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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1.1208 kubernetes-client 0.23.3
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1.1209 xtrans 1.3.5-1

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1.1210 python-certifi 2018.01.18
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla’s root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
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@(#) SRCFile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.1211 resilience4j-retry 1.7.1
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* /opt/cola/permits/1305465689_1649753357.49/0/resilience4j-retry-1-7-1-sources-1-
  jar/io/github/resilience4j/retry/package-info.java
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  jar/io/github/resilience4j/retry/utils/package-info.java
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1.1213 alpine-baselayout 3.2.0-r3

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```
# canonicalize-lgpl.m4 serial 4

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AC_DEFUN([gl_CANONICALIZE_LGPL],

  [dnl Do this replacement check manually because the file name is shorter
   dnl than the function name.
   AC_CHECK_DECLS_ONCE(canonicalize_file_name)
   AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
   if test $ac_cv_func_canonicalize_file_name = no; then
     AC_LIBOBJ(canonicalize-lgpl)
     AC_DEFINE([realpath], [rpl_realpath],
       [Define to a replacement function name for realpath().])
     gl_PREREQ_CANONICALIZE_LGPL
     fi
  ])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],

  [AC_CHECK_DECLS_ONCE(canonicalize_file_name)
   AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
   gl_PREREQ_CANONICALIZE_LGPL
  ])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],

  [AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
   AC_CHECK_FUNCS_ONCE(getcwd readlink)
  ])
```

1.1216 fsnotify 1.4.7

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1.1217 policykit 0.105 20ubuntu0.18.04.6
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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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If distribution of object code is made by offering access to copy
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Andreas Henriksson <andreas@fatal.se> later reused the gnome-icon-theme packaging for the new adwaita-icon-theme package name.

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1.1228 command-not-found 18.04.6

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# COPYING.other
#* org
#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1234 libnetcf1 0.2.8-1ubuntu2
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^L

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

That's all there is to it!

1.1235 libpython-stdlib 2.7.15~rc1-1

1.1235.1 Available under license:

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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2.6    2.5   2008  PSF  yes
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2.6.3  2.6.2  2009  PSF  yes
2.6.4  2.6.3  2009  PSF  yes
2.6.5  2.6.4  2010  PSF  yes

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1.1238 libglapi-mesa 20.0.8-0ubuntu1~18.04.1
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SOFTWARE.

libfreedreno_layout = static_library(
    'freedreno_layout',
    ['fd6_layout.c',
     'freedreno_layout.c'],
    include_directories : [inc_freedreno, inc_common],
    c_args : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
    build_by_default : false,
)

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1.1239 tdb 1.45.5

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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------------------------------------------------------------------------------

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
           traditional one-character options, and GNU’ish
           --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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Written by: Philip Hazel
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1.1268 libsbc-dev 1.3-2

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1.1272 python3-crypto 2.6.1-8ubuntu2

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b) You must cause the files modified to carry prominent notices
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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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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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
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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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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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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

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

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

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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.

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6. conveying non-source forms.

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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.

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<signature of Ty Coon>, 1 April 1989
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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.
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<signature of Ty Coon>, 1 April 1990
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1.1296 libxcbglx 1.13-2~ubuntu18.04

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1.1298 squashfs-tools 4.3-6ubuntu0.18.04.4

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jar/io/netty/resolver/dns/UnixResolverOptions.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/LoggingDnsQueryLifeCycleObserverFactory.java

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jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/Cache.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsAddressDecoder.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsRecordResolveContext.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsCnameCache.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/NameServerComparator.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DirContextUtils.java
*/
op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/NoopDnsCnameCache.java

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op/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml

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jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java

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jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/DnsServerAddresses.java
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jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/DnsQueryContext.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/DnsNameResolver.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-
jar/io/netty/resolver/dns/package-info.java

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* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/NoopDnsCache.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsCache.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsCache.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/InflightNameResolver.java
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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/Usr'
CMAKE_INSTALL_INCLUDEDIR='include'
CMAKE_INSTALL_INFODIR='info'
CMAKE_INSTALL_LIBDIR=('lib'lib64lib/arch')
CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALSTATEDIR='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='/usr/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/share/doc/Usr'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64|lib/arch')
CMAKE_INSTALL_FULL_LIBEXECDIR='/usr/libexec'
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'
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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_LOCALSTATEDIR='var'
CMAKE_INSTALL_RUNSTATEDIR='var/run'
CMAKE_INSTALL_MANDIR='usr/man'
CMAKE_INSTALL_SBINDIR='usr/sbin'
CMAKE_INSTALL_SHAREDSTATEDIR='usr/com'
CMAKE_INSTALL_SYSFSDIR='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_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_SYSFSDIR='/etc'
```

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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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Version 2.1, February 1999

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

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

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

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

   Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
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----------------------------

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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

The ``xmlrpc.client`` module contains the following notice::

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--------

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

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cfuhash
-------

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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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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:

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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Ty Coon, President of Vice

That's all there is to it!

1.1318 rsync 3.1.2
1.1318.1 Available under license :

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menu, a prominent item in the list meets this criterion.


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

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

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

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
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the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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subprograms and other parts of the work.

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

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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,
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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.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
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* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-jar/io/netty/channel/StacklessClosedChannelException.java

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* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/PendingBytesTracker.java
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  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/internal/ChannelUtils.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
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* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/socket/nio/NioChannelOption.java
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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [ @link ChannelPipeline ] .
 */
Sub-types

A `ChannelHandler` itself does not provide many methods, but you usually have to implement one of its subtypes:

- `ChannelInboundHandler` to handle inbound I/O events, and
- `ChannelOutboundHandler` to handle outbound I/O operations.

Alternatively, the following adapter classes are provided for your convenience:

- `ChannelInboundHandlerAdapter` to handle inbound I/O events,
- `ChannelOutboundHandlerAdapter` to handle outbound I/O operations, and
- `ChannelDuplexHandler` to handle both inbound and outbound events.

For more information, please refer to the documentation of each subtype.

The context object

A `ChannelHandler` is provided with a `ChannelHandlerContext` object. A `ChannelHandler` is supposed to interact with the `ChannelPipeline` it belongs to via a context object. Using the context object, the `ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `AttributeKey`)s which is specific to the handler.

State management

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        }
    }
```
* } else (message instanceof GetDataMessage) {
*     if (<b>loggedIn</b>) {  
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*     } else {
*         fail();
*     }
* }
* }
* ...
*
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* </pre>
* // Create a new handler instance per channel.
* // See [ChannelInitializer#initChannel](Channel).
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
*
* </pre>
* Using [AttributeKey](
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [AttributeKey](
* [ChannelHandlerContext]:
* </pre>
* public interface Message {
*     // your methods here
* }
*
* [Sharable]
* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*     private final AttributeKey&lt;Boolean&gt; auth =
*         AttributeKey.valueOf("auth");
* }
* @Override
* public void channelRead(ChannelHandlerContext ctx, Message message) {
*     Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*     } else (message instanceof GetDataMessage) {
*         if (<b>loggedIn</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* }
* ...
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
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* </pre>
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* // See [ChannelInitializer#initChannel](Channel).
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*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
*
* </pre>
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* [ChannelHandlerContext]:
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* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
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* }
* @Override
* public void channelRead(ChannelHandlerContext ctx, Message message) {
*     Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*     } else (message instanceof GetDataMessage) {
*         if (<b>loggedIn</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* }
* ...
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* </pre>
* // Create a new handler instance per channel.
* // See [ChannelInitializer#initChannel](Channel).
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
*
* </pre>
* Using [AttributeKey](
* Although it's recommended to use member variables to store the state of a
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* </pre>
* public interface Message {
*     // your methods here
* }
*
* [Sharable]
* public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
*     private final AttributeKey&lt;Boolean&gt; auth =
*         AttributeKey.valueOf("auth");
* }
* @Override
* public void channelRead(ChannelHandlerContext ctx, Message message) {
*     Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*     } else (message instanceof GetDataMessage) {
*         if (<b>loggedIn</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* }
* ...
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* </pre>
* // Create a new handler instance per channel.
* // See [ChannelInitializer#initChannel](Channel).
* public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
*
<b>attr.set(true)</b>;
} else (message instanceof GetDataMessage) {
    if (<b>Boolean.TRUE.equals(attr.get())</b>) {
        ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
    } else {
        fail();
    }
} ...
}
</pre>

Now that the state of the handler is attached to the <link.ChannelHandlerContext>, you can add the same handler instance to different pipelines:
<pre>
public class DataServerInitializer extends <link.ChannelInitializer>&lt;<link.Channel&gt; { 

    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();

    <code>@Override
    public void initChannel(<link.Channel> channel) {
        channel.pipeline().addLast("handler", <b>SHARED</b>);
    }
    </code>
</pre>

The <code>@Sharable</code> annotation

In the example above which used an <link.AttributeKey>, you might have noticed the <code>@Sharable</code> annotation.

If a <link.ChannelHandler> is annotated with the <code>@Sharable</code> annotation, it means you can create an instance of the handler just once and add it to one or more <link.ChannelPipeline>s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">JCIP annotations</a>.

Additional resources worth reading

Please refer to the <link.ChannelHandler>, and <link.ChannelPipeline> to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
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  jar/io/netty/channel/DefaultSelectStrategyFactory.java
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1.1326 libdrm-common 2.4.101-2~18.04.1

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1.1328 libwayland-cursor0 1.16.0-
1ubuntu1.1~18.04.3

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Upstream-Contact: Kristian Hgsberg <krh@bitplanet.net>
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1.1337 python3-astroid 1.6.0-1

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*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $
Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u USER` is given; `-u` only works for root. When using most `su` commands under most BSD's, `crontab` will still think of you as yourself even though you may think of yourself as root -- so use `-u` liberally. (3) the `-r` option stands for `replace`; check the man page for `crontab(1)` for other possibilities.

Kill your existing cron daemon -- do `ps aux` and look for `/etc/cron`

Edit your `/etc/rc` or `/etc/rc.local`, looking for the line that starts up `/etc/cron`. Comment it out and add a line to start the new cron daemon -- usually `/usr/local/etc/cron`, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type `/usr/local/etc/cron` (or whatever); no `&` is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
No license file was found, but licenses were detected in source scan.

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`# *
`#/ 
` 
`$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $ 
` 

Found in path(s):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1
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Found in path(s):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h

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$Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp$

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 *
 * @(#)bitstring.h 5.2 (Berkeley) 4/4/90
 */

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   */
"

$Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
Found in path(s):

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```bash
#include <stdio.h>
#include <fcntl.h>

#define MAX_COMMANDS 366
#define MAX_COMMANDS_TO_WRITE 12
#define MAX_COMMANDS_TO_READ 12
#define MAX_CRON 1024
#define MAX_NAME 64
#define MAX_LINE 256

int main()
{
    // Code...

    return 0;
}
```

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.23 systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A message is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by ifndef...endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

1.1341 cmake-data 3.10.2-1ubuntu2.18.04.2
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CMAKE_INSTALL_DATADIR='share'
CMAKE_INSTALL_DATAROOTDIR='share'
CMAKE_INSTALL_DOCDIR='share/doc/UsrLocal'
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_SYSCONFIGDIR='etc'
CMAKE_INSTALL_FULL_BINDIR='/usr/local/bin'
CMAKE_INSTALL_FULL_DATADIR='/usr/local/share'
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/local/share'
CMAKE_INSTALL_FULL_DOCDIR='/usr/local/share/doc/UsrLocal'
CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/local/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/local/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/local/(lib|lib64)'

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* National Alliance for Medical Image Computing (NAMIC) is funded by the National Institutes of Health through the NIH Roadmap for Medical Research, Grant U54 EB005149.

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Open Source Used In 5GasS Edge 9.70 16011
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'zlib' general purpose compression library
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CMAKE_INSTALL_INFODIR='info'
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CMAKE_INSTALL_LIBEXECDIR='libexec'
CMAKE_INSTALL_LOCALEDIR='share/locale'
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CMAKE_INSTALL_SHAREDSTATEDIR='com'
CMAKE_INSTALL_SYSCONFDIR='etc'
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CMAKE_INSTALL_FULL_DATADIR='/usr/share '
CMAKE_INSTALL_FULL_DATAROOTDIR='/usr/share'
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CMAKE_INSTALL_FULL_INCLUDEDIR='/usr/include'
CMAKE_INSTALL_FULL_INFODIR='/usr/info'
CMAKE_INSTALL_FULL_LIBDIR='/usr/(lib|lib64)|lib/arch')
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'
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.1342 antchfx-xmlquery 1.3.9

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1.1343 json-cpp 1.7.4-3

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1.1345 netifaces 0.10.4-0.1build4
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Description: netifaces 0.10.4
==============

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   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

1. What is this?
--------------

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible
to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you’re using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing::

tar xvzf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install

Once that’s done, you’ll need to start Python and do something like the following::

>>> import netifaces

Then if you enter

>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you’ll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}

Hmmm. That result looks a bit cryptic; let’s break it apart and explain what each piece means. It returned a dictionary, so let’s look there first::

[18: [...], 2: [...], 30: [...] ]

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is "AF_LINK" (which means the link layer interface, e.g. Ethernet), 2 is "AF_INET" (normal Internet addresses), and 30 is "AF_INET6" (IPv6).

But wait! Don’t use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.
Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `AF_INET` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '192.168.0.255', 'addr': '192.168.0.47'},
 {'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement `SIOCGIFHWADDR`. Note also that you just get the
address; it's unlikely that you'll see anything else with an `AF_LINK` address. Oh, and don't assume that all `AF_LINK` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address—it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, `AF_INET`---and each entry is a list of gateways as `(address, interface, is_default)` tuples. Notice that here we have two separate gateways for IPv4 (`AF_INET`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value `'default'`, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `AF_INET`.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `gateways()` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?
It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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

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5. Why the jump to 0.10.0?
--------------------------

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

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* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-0.10.4/netifaces.egg-info/PKG-INFO
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netifaces 0.10.4
================

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

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```

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[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.
Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
```

```python
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement `SIOCGIFHWADDR`. Note also that you just get the address; it's unlikely that you'll see anything else with an `AF_LINK` address. Oh, and don't assume that all `AF_LINK` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
```

```python
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
[2: [(10.0.1.1, 'en0', True), (10.2.1.1, 'en1', False)], 30: [(fe80::1, 'en0', True)], 'default': [(10.0.1.1, 'en0'), 30: (fe80::1, 'en0') ]]
```

This dictionary is keyed on address family---in this case, `AF_INET`---and each entry is a list of gateways as `(address, interface, is_default)` tuples. Notice that here we have two separate gateways for IPv4 (`AF_INET`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special
value `'default'`, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `AF_INET`.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `gateways()` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

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

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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

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5. Why the jump to 0.10.0?

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

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANCELOG for a more complete list of changes.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0.10.4/README.rst

1.1346 libgpg-error 1.27 6

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b) Use a suitable shared library mechanism for linking with the
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interface-compatible with the version that the work was made with.

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Version 3.1, 31 March 2009

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

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

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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

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========

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AES in libhcrypto

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>
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Richard Outerbridge

DES core in libhcrypto

D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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 */

package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}
1.1365 x-crypto 0.0.0-20211115234514-b4de73f9ece8

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1- jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1- jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1- jar/io/netty/handler/codec/CodecOutputList.java
jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/DecoderResultProvider.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java

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  jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/GzipOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/ZstdOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/compression/BrotliDecoder.java

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 */

/**
 * Enumeration of supported Base64 dialects.
 */

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/marshalling/ObjectEncoderOutputstream.java
jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/marshalling/UnmarshallProvider.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/unsupportedMessageDecodeException.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
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*/
/**
* A decoder that splits the received `@link ByteBuf`'s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* `@link LengthFieldBasedFrameDecoder` has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* <p>
* <h3>2 bytes length field at offset 0, do not strip header</h3>
* <p>
* The value of the length field in this example is `<tt>12 (0x0C)</tt>` which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>
* <p>
*  * BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
*  * +--------+----------------+   +--------+----------------+
*  * | Length | Actual Content |----->| Length | Actual Content |
*  * | 0x000C | "HELLO, WORLD" |   | 0x000C | "HELLO, WORLD" |
*  * +--------+----------------+   +--------+----------------+
*  <pre>/pre>
* <p>
*  * 2 bytes length field at offset 0, strip header</h3>
*  <p>
*  Because we can get the length of the content by calling
*  `@link ByteBuf#readableBytes()`, you might want to strip the length
*  field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
*  specified `<tt>2</tt>`, that is same with the length of the length field, to
*  strip the first two bytes.
*  <pre>
*  lengthFieldOffset   = 0
*  lengthFieldLength   = 2
*  lengthAdjustment    = 0
*  <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>
* <p>
*  * BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
*  * +--------+----------------+   +---------+
*  * | Length | Actual Content |----->| Actual Content |
*  * | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
*  * +--------+----------------+   +---------+
In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero \textit{lengthAdjustment}. Because the length value in this example message is always greater than the body length by \texttt{2}, we specify \texttt{-2} for compensation.

### 3 bytes length field at the end of 5 bytes header, do not strip header

The following message is a simple variation of the first example. An extra header value is prepended to the message. \textit{lengthAdjustment} is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

* \texttt{lengthFieldOffset} = 2
* \texttt{lengthFieldLength} = 3
* \texttt{lengthAdjustment} = 0
* \texttt{initialBytesToStrip} = 0

### BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

```
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

### 3 bytes length field at the beginning of 5 bytes header, do not strip header

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a

```
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>/0 = <b>2</b>/0 (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |      | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>/0 = <b>1</b>/0 (= the length of HDR2)
* <b>initialBytesToStrip</b>/0 = <b>3</b>/0 (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------+----------+----------------+      +----------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)                        AFTER DECODE (13 bytes)
* +------------+----------------+      +------------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------------+----------------+      +------------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4.1.75-final-sources-1-
  jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

# 1.1376 pylint 1.8.3-1

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AES in libhcrypto
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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Mersenne Twister
----------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and
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1.1384 xxhash 2.1.2

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That's all there is to it!
## Constant-time SSSE3 AES core implementation.
## version 0.1

**By Mike Hamburg (Stanford University), 2009**

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1.1392 cobra 1.0.0

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

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-- Keir Fraser (on behalf of the Xen team)

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

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

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

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

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

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Bits of Go-lang's `once.Do()` were cribbed and reused here, too.

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

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

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

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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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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
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1.1404 base-files 11ubuntu5.5

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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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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
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(For example, a function in a library to compute square roots has
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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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The code in this library is an extension of Bala Vatti's clipping algorithm:
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Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston

See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
September 24-28, 2005 , Long Beach, California, USA
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    'freedreno_layout',
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    c_args : [c_vis_args, no_override_init_args],
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c End:
1.1411 x-sys 0.0.0-20220114195835-da31bd327af9
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#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image:$(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSDLIB_LIB) .
$(RM) -f ../$(BSDLIB_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSDLIB_LIB) $(BSDLIB_LIB))
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \n $(DESTDIR)$(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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 */
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That's all there is to it!
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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.1414 libsepol 2.7-1
1.1414.1 Available under license:

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This package was debianized by Russell Coker <russell@coker.com.au> on Fri, 20 Aug 2004 17:26:18 +1000.

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.1415 jctools-core 3.1.0

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

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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</plugin>

</build>

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    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/:publish=1</url>
  </repository>
</distributionManagement>

</licenses>
1.1416 libsmi2-dev 0.4.8+dfsg2-15
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------------------------------------------------------------------------

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---------------------------------------------------------------------------
tools/shhopt.c, tools/shhopt.h:

Title:shhopt - library for parsing command line options.
Version:1.1.2
Entered-date:23MAR97
Description:C-functions for parsing command line options, both
   traditional one-character options, and GNU'ish
   --long-options.
Keywords:programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site:http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site:sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms:Requires ANSI C-compiler.
Copying-policy:BeerWare: If you have the time and money, send me a bottle
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1.1417 grub2-unsigned 2.04-1ubuntu44.1.2

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/* Use the Sequent Symmetry assembler syntax. */

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

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

#define LPREFIX "L"

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

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
/* This was suggested, but it shouldn’t be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE, SIZE) 
fprintf (FILE, "\t.space %u\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */
/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */
#define ASM_OUTPUT_ALIGN(FILE, LOG) 
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with 'assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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which the executable runs, unless that component itself accompanies
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@heading TERMS AND CONDITIONS

@enumerate 0
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System Libraries, or general-purpose tools or generally available free
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@item
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@item
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@item
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@end example

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notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{show c} should show
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use an ```about box``.

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Version 3.1, 31 March 2009

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

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

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

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

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

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

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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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

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

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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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.

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#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

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

import os
import re
import sys
import time
import subprocess

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

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

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

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

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

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltinfo.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkeinfo',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files
class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9.\s]\s+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w' + '-'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|\w')

        # Matches a full copyright notice:
        self.copyright_re = re.compile(r'
            ([Cc]opyright |
            (\s*\s*\d+(?:,?\s*\d+)?)?\s*)
            (by )?\s*\w+\s*\w+\s*
        ', re.IGNORECASE)

        # A regexp for notices that might have slipped by. Just matching
        # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
        # HTML header markers, so check for 'copyright' and two digits.
        self.other_copyright_re = re.compile('copyright.*[0-9]', re.IGNORECASE)

        self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (',', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
assert not self.max_year
self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
  # Leave texinfo variables alone.
  if years.startswith('@value'):
    return years

  (min_year, max_year) = self.year_range(years)

  # Update the upper bound, if enabled.
  if self.max_year and not filter.is_fossilised_file(dir, filename):
    max_year = max(max_year, self.max_year)

  # Use a range.
  if min_year == max_year:
    return '%d' % min_year
  else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
  line = line.lstrip()
  match = self.comment_re.match(line)
  if match:
    line = line[match.end():].lstrip()
  return line

def is_complete(self, match):
  holder = match.group(4)
  return (holder
    and (holder not in self.holder_prefixes
      or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
  orig_line = line
  next_line = None
  pathname = os.path.join(dir, filename)

  intro = match.group(1)
  if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != ':
      self.errors.report(pathname,
        'trailing characters in @set: ' + after_years)
    return (False, orig_line, next_line)
  else:
# If it looks like the copyright is incomplete, add the next line.
while not self.is_complete (match):
    try:
        next_line = file.next()
    except StopIteration:
        break

# If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])
# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)
line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
next_line = None
# Leave filtered-out lines alone.
if not (line_filter and line_filter.match(line)):
    match = self.copyright_re.search(line)
    if match:
        res = self.update_copyright(dir, filename, filter,
                                     file, line, match)
        (this_changed, line, next_line) = res
        changed = changed or this_changed

# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search(line):
    self.errors.report(pathname,
                        'unrecognised copyright: %s'
                        % line.strip())
    lines.append(line)
    line = next_line

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

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

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

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
import sys

class Copyright:
    def __init__(self):
        self.use_quilt = False
        self.include_year = False

    def set_use_quilt(self, use_quilt):
        self.use_quilt = use_quilt

    def include_year(self, year):
        self.include_year = year

    def generate_copyright(self, dir):
        if self.include_year:
            print('Copyright (c) %d' % self.include_year, file=sys.stdout)
        if self.use_quilt:
            print('Quilt version %d' % time.localtime().tm_year, file=sys.stdout)
        if self.include_year or self.use_quilt:
            print('', file=sys.stdout)

    def generate_license(self, dir):
        print('License: GPL', file=sys.stdout)
        print('', file=sys.stdout)

class GenericFilter:
    def __init__(self):
        pass

    def __call__(self, filename):
        return True

class CopyrightManager:
    def __init__(self):
        self.copyright = Copyright()

    def copyright(self, dir, copyright_options):
        if copyright_options['include_year']:
            self.copyright.include_year = True
        if copyright_options['use_quilt']:
            self.copyright.use_quilt = True

    def generate_copyright(self, dir):
        self.copyright.generate_copyright(dir)

    def generate_license(self, dir):
        self.copyright.generate_license(dir)

    def copyright_options(self, dir):
        return {'include_year': False, 'use_quilt': False}

manager = CopyrightManager()
manager.copyright_options = lambda dir: {'include_year': False, 'use_quilt': False}

manager.copyright('example_dir', {'include_year': True, 'use_quilt': True})
manager.generate_copyright('example_dir')
manager.generate_license('example_dir')

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

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

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

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    self.skip_files |= set ([
        # Not part of GCC
        'math-68881.h',
    ])

Open Source Used In 5GaaS Edge 9.70  17807
self.skip_dirs |= set ( [  
    # Better not create a merge nightmare for the GNAT folks.  
    'ada',  

    # Handled separately.  
    'testsuite',  
])

self.skip_extensions |= set ( [  
    # Maintained by the translation project.  
    '.po',  

    # Automatically-generated.  
    '.pot',  
])

self.fossilised_files |= set ( [  
    # Old news won't be updated.  
    'ONEWS',  
])

class TestsuiteFilter (GenericFilter):  
    def __init__ (self):  
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ( [  
            # Don't change the tests, which could be woend by anyone.  
            '.c',  
            '.C',  
            '.cc',  
            '.h',  
            '.hs',  
            '.f',  
            '.f90',  
            '.go',  
            '.inc',  
            '.java',  
            ])  

    def skip_file (self, dir, filename):  
        # g++.niklas/README contains historical copyright information  
        # and isn't updated.  
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':  
            return True  
        # Similarly params/README.  
        if filename == 'README' and os.path.basename (dir) == 'params':  
            return True
return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ({
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        })

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Imported from GLIBC.
            'soft-fp',
        })

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set ({
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        })

        self.own_files |= set ({
            # Contains markup around the copyright owner.
            'spine.xml',
        })
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)
        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Intel Corporation')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
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        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
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class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyRight)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        # libcilk is imported from upstream.
        self.add_dir ('libcilk', LibCilkFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffload is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libsssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
        # maintainer-scripts maintainer-scripts
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'include',
            'libada',
            'libatomic',
            'libbacktrace',
            'libcc1']
GCCMdLine().main()

1.1420 c-ares 1.2.5

1.1420.1 Available under license :

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1.1421 libgstreamer-plugins-base1.0-0 1.14.5-0ubuntu1~18.04.3

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

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

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

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

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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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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1.1422 libqt5multimediawidgets5 5.9.5-0ubuntu1

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

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Version 3, 29 June 2007

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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.


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.

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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".

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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 source code form), and must require no special password or key for unpacking, reading or copying.

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@version 3.0 (December 2000)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.1438 diffutils 3.6-1
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1.1439 pyparsing 2.2.0
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1.1440 generex 1.0.2
1.1440.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-
  jar/com/mifmif/common/regex/GenerexIterator.java
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1.1441 glibc 2.27-3ubuntu1.6

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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdtlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdtlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdtlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdtlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdtlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdtlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_msi.py
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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdtlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdtlib-extensions-3.7.5/3.6/Lib/distutils/cygwinccompiler.py
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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_filter.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_map.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_xrange.py
bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_buffer.py
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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-
bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/tokenize.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-
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"cannot supply both '--source-only' and '--binary-only'"
)'License: '+ self.distribution.get_license(),

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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-
bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3.6-9-orig-1-tar-
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative (↑ Alternative)*

Alternative: (Unit | NegatedUnit)+
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file.write('License: %s
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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-8/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-7/Lib/distutils/dist.py
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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/dist.py
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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/dist.py

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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-8/Lib/distutils/spawn.py
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* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/spawn.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/spawn.py
* /opt/ws_local/PERMITS_SQL/1075369341_1596120497.64/0/python3-stdlib-extensions-3-6-9-orig-1-tar-bz2/python3-stdlib-extensions-3-7-5/3-6/Lib/distutils/spawn.py

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1.1459 toml 0.10.2

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
}
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = aws middleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws middleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *aws middleware.RegisterServiceMetadata {
    return &aws middleware.RegisterServiceMetadata{
        Region:    region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",

name: License Scan

on: [pull_request]

jobs:

licenseScan:
  name: License Scan
  runs-on: ubuntu-latest
  strategy:
    matrix:
      python-version: [3.9]
  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }} ${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
  "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
  if params == nil {
    params = &CheckInLicenseInput{
  }
}

  result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
  c.addOperationCheckInLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckInLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CheckInLicenseInput struct {
  // License consumption token.
  // // This member is required.
  LicenseConsumptionToken *string

  // License beneficiary.
  Beneficiary *string
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"
)
// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
    params = &DisassociateLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns, 
c.addOperationDisassociateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DisassociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DisassociateLicenseInput struct {

    // The type of license to remove from the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to remove the Grafana Enterprise license from.
    //
    // This member is required.
    WorkspaceId *string
}

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type DisassociateLicenseOutput struct {

    // A structure containing information about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

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func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "DisassociateLicense",
    }
}

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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/ licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{ }
    }
    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
    c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

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}
type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
}
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "GetLicense",
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smitty-go/middleware"
smithyhttp "github.com/aws/smitty-go/transport/http"
}
// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
    if params == nil {
        params = &CheckoutBorrowLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
    c.addOperationCheckoutBorrowLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutBorrowLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutBorrowLicenseInput struct {

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Digital signature method. The possible value is JSON Web Signature (JWS)
    // algorithm PS384. For more information, see RFC 7518 Digital Signature with
    //
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
NodeId *string

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}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {
// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Enteritlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EnteritlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string
// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.\nNodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

AWS SDK for Go
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package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // Beneficiary
    //
    // * ProductSKU
    //
    // * Fingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string
}
// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata { return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
        c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // // This member is required.
    LicenseArn *string
    // Current version of the license.
    // // This member is required.
    SourceVersion *string

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}

type DeleteLicenseOutput struct {
    // Date when the license is deleted.
    DeletionDate *string
    // License status.
}
```go
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
```
func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    
    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {
    // The type of license to associate with the workspace.
    // // This member is required.
    LicenseType types.LicenseType
    
    // The ID of the workspace to associate the license with.
    // // This member is required.
    WorkspaceId *string
}

type AssociateLicenseOutput struct {
    // A structure containing data about the workspace.
    // // This member is required.
    Workspace *types.WorkspaceDescription

    // Metadata pertaining to the operation’s result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "AssociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    
    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
}
out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    //
    // This member is required.
    HomeRegion *string

    // License issuer.
    //
    // This member is required.
    Issuer *types.Issuer

    // License name.
    //
    // This member is required.
    LicenseName *string

    // Product name.
    //
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }

  if err != nil {
    return err
  }

  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}
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1.1461 libqt5printsupport5 5.9.5+dfsg-0ubuntu2.6

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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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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THE BASIC LIBRARY FUNCTIONS
----------------------------

Written by: Philip Hazel
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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user`s homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, PAM_USER, &user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)){
+                pam_syslog(pamh, LOG_ERR,
+                    "Unable to change UID to %d temporarily\n",
+                    pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                    S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                if (f>=0) close(f);
+            }
+        }
+        if (asprintf(&dir, "%s/cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+        if (stat(flag, &s) != 0)
+        {
+            display_file(pamh, "/etc/legal");
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
+        }
+    }


+finished:
+ if (pam_modutil_regain_priv(pamh, &privs)) {
+     pam_syslog(pamh, LOG_ERR,
+               "Unable to change UID back to %d\n", privs.old_uid);
+     retval = PAM_SESSION_ERR;
+ }
+
+ _pam_drop(flag);
+ _pam_drop(dir);
+ }
+
+ return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@ @ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
+
    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
+
    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

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1.1466 python-certifi 2018.1.18-2
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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
1.1467 libldap-common 2.4.49+dfsg-2ubuntu1.9

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1.1468 golang-protobuf-extensions 1.0.1

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  jar/io/netty/channel/epoll/EpollChannelOption.java
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  jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
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/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a> for more details.
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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/TcpMd5Util.java
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  jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
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  jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
  jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

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========

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

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

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

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

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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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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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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
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package spec

import "testing"

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

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

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a

type License struct {
    Name string `json:"name,omitempty"`
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Version 2.0, January 2004
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1.1512 apt-utils 1.6.14

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October 28, 1997
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Sam Lantinga(slouken@libsdl.org)
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1.1517 libqt5designer5 5.9.5-0ubuntu1

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1.1518 protobuf 1.4.3

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1.1519 msgp 1.1.6

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1.1521 logrus 1.9.0
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1.1522 libc 2.27-3ubuntu1.6

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October 28, 1997
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Sam Lantinga(slouken@libsdl.org)

1.1524 distro 1.7.0
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Thanks!

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1.1525 reactor-core 3.4.16

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reactor.core.scheduler.ReactorBlockHoundIntegration

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* /opt/cola/permits/1301965923_1649308369.63/0/reactor-core-3-4-16-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

1.1526 go-systemd 22.3.2
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vis.c in libroken

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AES in libhcrypto

@verbatim
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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kdc/announce.c

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@heading Richard Outerbridge

DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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Windows support

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lib/hcrypto/test_dh.c

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1.1530 supervisor 3.3.1-1.1

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1.1531 golang-snappy 0.0.4

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1.1532 async-timeout 4.0.2

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1.1534 qemu-system-common 2.11+dfsg-1ubuntu7.40
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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_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 },
{ TARGET_FREEBSD_NR_madvise, "madvise", "madvise", 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", "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", "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Msgrecv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Msync, "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", "munmap", NULL, 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_Ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Printf, "printf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_Printfv, "printfv", 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_Recv, "recv", 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_setssockopt, "setssockopt", 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_signalstack, "signalstack", "%s(%p,%p)", 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 },
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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<td>2001</td>
<td>PSF</td>
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</tr>
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</table>
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1.1535 cmath 1.0.0
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1.1538 qemu-system-x86 2.11+dfsg-1ubuntu7.40

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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.

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2.7 2.6 2010 PSF yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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1.1539 xz 5.0.4

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

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
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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 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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Gocheck - A rich testing framework for Go

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<signature of Ty Coon>, 1 April 1989
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Version 3, 29 June 2007
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b) Use a suitable shared library mechanism for linking with the
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#
src/bdf/bdf.c
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National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL 61820
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 * Written by Adam Twiss (adam@zeus.co.uk). March 1996
 *
 * Thanks to the following people for their input:
 * Mike Belshe (mbelshe@netscape.com)
 * Michael Campanella (campanella@stevms.enet.dec.com)
 */
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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.
Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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$FreeBSD: head/usr.bin/procstat/procstat_vm.c 261780 2014-02-11 21:57:37Z jhb $

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missing/alloca.c:
missing/dup2.c:
missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/strerror.c:
missing/strerror.c:
missing/strstr.c:
missing/tgamma.c:
ext/date/date_strftime.c:
ext/digest/sha1/sha1.[ch]:
ext/sdbm/_sdbm.c:
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ext/nkf/nkf-utf8/nkf.c:
ext/nkf/nkf-utf8/utf8tbl.c:

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6. = Contributors to Ruby

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  * net/pop
  * net/smtp
  * racc
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arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
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* Added IO#pread and IO#pwrite.

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* a patch for proc.c

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  * POP3S support

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Johan Holmberg
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  * complex.rb (1.8)
  * e2mmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

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* patch for tool/file2lastrev.rb.

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* committer
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* He is the maintainer of:
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  * timeout
  * gdbm
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* missing/strlcat.c
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moonwolf
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  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
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  * wsdl/* (1.8)
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* some of missing/* is based on his book:
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  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb
Eugene Ossintsev
* documentation

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pegacorn
* a patch for instruby.rb

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* missing/vsnprintf.c

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Run Paint Run Run
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* documentation

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* a patch for pack.c.

Tatsuki Sugiura
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* a patch for array.c

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  * pp
  * resolv-replace
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* tmpdir
* un
* Win32API

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* He is the maintainer of syck

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* documentation

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* a patch for net/pop

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1.1590 jul-to-slf4j 1.7.36

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1.1591 json-cpp 1.7.4 3

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1.1592 text-table 1.6.4

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1.1593 cyphar-filepath-securejoin 0.2.2

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1.1594 blackfriday 2.0.1

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1.1595 kubernetes/cli-runtime 0.19.3

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1.1596 cpp-7 7.5.0-3ubuntu1~18.04

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

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```
<program> Copyright (C) <year> <name of author>
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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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   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
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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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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)


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1.1599 x-sync 0.0.0-20190911185100-

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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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Jean-loup Gailly        Mark Adler
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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
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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
September 29, 2017
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#
docs/FTL.TXT
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#
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
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Written by: Philip Hazel
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@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>
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```

1.1610 lua 5.2.4

1.1611 zlib 1.2.11.dfsg 0ubuntu2

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1.1612 binutils 2.30 21ubuntu1~18.04.7

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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This package was put together by me, James Troup <james@nocrew.org>,
from sources, which I obtained from:


and:

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1.1616 python-oauthlib 2.0.6-1

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1.1618 types-cryptography 3.3.21
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*Note:* The `cryptography` package includes type annotations or type stubs since version 3.4.4. Please uninstall the `types-cryptography` package if you use this or a newer version.

See https://github.com/python/typeshed/blob/master/README.md for more details.

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Found in path(s):
* /opt/cola/permits/1356548934_1657743913.4684463/0/types-cryptography-3.3.21-tar-gz/types-cryptography-3.3.21/PKG-INFO
* /opt/cola/permits/1356548934_1657743913.4684463/0/types-cryptography-3.3.21-tar-gz/types-cryptography-3.3.21/types_cryptography.egg-info/PKG-INFO

1.1619 python 2.7.17 1~18.04ubuntu1.6

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.1621 aws-sdk-go-v2 1.11.2
1.1621.1 Available under license:

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
    params = &ListReceivedLicensesInput{
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {
// Filters to scope the results. The following filters are supported:
//
// * ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
    return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
if err != nil {

return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
  return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
  Region:    region,
  ServiceID: ServiceID,
  SigningName:  "license-manager",
  OperationName: "ListReceivedLicenses",
}
}
name: License Scan

on: [pull_request]

jobs:
  licensescan:
    name: License Scan
    runs-on: ubuntu-latest
    strategy:
      matrix:
        python-version: [3.9]
    steps:
      - name: Checkout target
        uses: actions/checkout@v2
        with:
          path: sdkbase
          ref: ${{ github.base_ref }}
      - name: Checkout this ref
        uses: actions/checkout@v2
        with:
          path: new-ref
          fetch-depth: 0
      - name: Get Diff
        run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
        > refDiffFiles.txt
      - name: Get Target Files
        run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
      - name: Check Target Files
        run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
      - name: Checkout scancode
        uses: actions/checkout@v2
        with:
          repository: nexB/scancode-toolkit
          path: scancode-toolkit
fetch-depth: 1
- name: Set up Python ${[ matrix.python-version ]}
  uses: actions/setup-python@v2
  with:
    python-version: ${[ matrix.python-version ]}
# ScanCode
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
# compare
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
  if params == nil {
    params = &CheckInLicenseInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, c.addOperationCheckInLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckInLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}
type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.
package grafana

import (  
    "context"  
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"  
    "github.com/aws/smithy-go/middleware"  
    smithyhttp "github.com/aws/smithy-go/transport/http"  
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...func(*Options)) (*DisassociateLicenseOutput, error) {  
    if params == nil {  
        params = &DisassociateLicenseInput{  
    }
    
    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,  
    c.addOperationDisassociateLicenseMiddlewares)  
    if err != nil {  
        return nil, err  
    }  
    
    out := result.(*DisassociateLicenseOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}

type DisassociateLicenseInput struct {  
    // The type of license to remove from the workspace.  
    //  
    // This member is required.  
    LicenseType types.LicenseType
    
    // The ID of the workspace to remove the Grafana Enterprise license from.  
    //  
    // This member is required.  
    WorkspaceId *string
    
    noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {  
    // A structure containing information about the workspace.  
    //
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsrestjson1serializeOpDisassociateLicense{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsrestjson1deserializeOpDisassociateLicense{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = addHTTPSsignerV4Middleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
  }
  if err = addClientUserAgent(stack); err != nil {
    return err
  }
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
    *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "grafana",
        OperationName: "DisassociateLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/smithy-go/transport/http"
}

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
// This member is required.
LicenseArn *string

// License version.
Version *string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
    return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
import (  
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {  
if params == nil {  
params = &CheckoutBorrowLicenseInput{  
}  
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {  
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of  
  // the request.
  //
  // This member is required.
  ClientToken *string

  // Digital signature method. The possible value is JSON Web Signature (JWS)  
  // algorithm PS384. For more information, see RFC 7518 Digital Signature with  
  //
  // This member is required.
  DigitalSignatureMethod types.DigitalSignatureMethod

  // License entitlements. Partial checkouts are not supported.  
  //
  // This member is required.
  Entitlements []types.EntitlementData
}
// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

  // Information about constraints.
  CheckoutMetadata []types.Metadata

  // Allowed license entitlements.
  EntitlementsAllowed []types.EntitlementData

  // Date and time at which the license checkout expires.
  Expiration *string

  // Date and time at which the license checkout is issued.
  IssuedAt *string

  // Amazon Resource Name (ARN) of the license.
  LicenseArn *string

  // License consumption token.
  LicenseConsumptionToken *string

  // Node ID.
  NodeId *string

  // Signed token.
  SignedToken *string

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata

  noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIdRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata {
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {

return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.

// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.

// This member is required.
ClientToken *string

// License entitlements.

// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.

// This member is required.
KeyFingerprint *string

// Product SKU.

// This member is required.
ProductSKU *string

// License beneficiary.

Beneficiary *string

// Node ID.

NodeId *string

}

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}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeID *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
}
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",

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package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {  
    if params == nil {  
        params = &ListLicensesInput{  
    }

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,  
    c.addOperationListLicensesMiddlewares)
    if err != nil {  
        return nil, err  
    }

    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil  
}

type ListLicensesInput struct {  

    // Filters to scope the results. The following filters are supported:  
    //  
    // *  
    // Beneficiary  
    //  
    // * ProductSKU
//
// * Fingerprint
//
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    return nil
}
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
    if params == nil {
        params = &DeleteLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
    c.addOperationDeleteLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*DeleteLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type DeleteLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // Current version of the license.
    //
    // This member is required.
    SourceVersion *string
type DeleteLicenseOutput struct {

  // Date when the license is deleted.
  DeletionDate *string

  // License status.
  Status types.LicenseDeletionStatus

  // Metadata pertaining to the operation's result.
  ResultMetadata middleware.Metadata

}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
  if err != nil {
    return err
  }
  err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsMiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
  if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
  }
  return nil
}
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
    c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*AssociateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type AssociateLicenseInput struct {

    // The type of license to associate with the workspace.
    //
    // This member is required.
    LicenseType types.LicenseType

    // The ID of the workspace to associate the license with.
    //
    // This member is required.
    WorkspaceId *string
}

type AssociateLicenseOutput struct {

    // A structure containing data about the workspace.
    //
    // This member is required.
    Workspace *types.WorkspaceDescription
}
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "AssociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/aws-smithy-go/middleware"
    smithyhttp "github.com/aws/aws-smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {

if params == nil {
    params = new CreateLicenseInput()
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil


type CreateLicenseInput struct {

    // License beneficiary.
    // // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    // // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    // // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    // // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.
    // // This member is required.
    HomeRegion *string

    // License issuer.
    // // This member is required.
}

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Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {

return err
}
if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSVerifierV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:   region,
        ServiceID: ServiceID,
        SigningName:  "license-manager",
        OperationName: "CreateLicense",
    }
}

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1.1624 bouncy-castle 1.68

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
Copyright (C) 2000 by Martin Pool <mbp@humbug.org.au>

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From test/CuTest.c, test/CuTest.h:

* Copyright (c) 2002-2006 Asim Jalis
* 
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* 
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The following was received February 23, 2000 From: "Linn, John" February 19, 2000

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Portions of this software were developed at the National Center for Supercomputing Applications (NCSA) at the University of Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security Inc. MD5 Message-Digest Algorithm, including various modifications by Spyglass Inc., Carnegie Mellon University, and Bell Communications Research, Inc (Bellcore).

1.1627 libxmu 1.1.2-2
1.1627.1 Available under license:

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

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $? 
+
+if test -z "$NOCONFIGURE"; then
+  $srcdir/configure "$@
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ [ Andreas Boll ]
+ * Add $[misc:Depends] to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-[arch,indep] debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org>  Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
  configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
  from debian/rules.
+ * Remove David Nusinow from Up loaders.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+ + -- Julien Cristau <jcristau@debian.org>  Sat, 21 Apr 2012 10:50:11 +0200
+ +libxmu (2:1.1.0-3) unstable; urgency=low
+ + * Build for multiarch.
+ + -- Steve Langasek <vorlon@debian.org>  Fri, 21 Oct 2011 14:47:59 -0700
+ +libxmu (2:1.1.0-2) unstable; urgency=low
+ + [ Christopher James Halse Rogers ]
+ + * debian/patches/01_dont_export_private_deps.patch:
  - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
    private dep. With binutils-gold, the indirect dependency on Xt is not
    considered when linking with Xmu so this causes build failures.
+ + [ Julien Cristau ]
+ + * Drop Pre-Depends on x11-common, only needed for upgrades from the
  monolith.
+ + -- Julien Cristau <jcristau@debian.org>  Thu, 28 Apr 2011 14:10:11 +0200
+ +libxmu (2:1.1.0-1) unstable; urgency=low
+ + * New upstream release.
+ + * Bump xutils-dev build-dep for new macros.
+ + * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ + * Pass --with-xmlto and --without-fop (we want html and txt only).
+ + * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
  libxmu-headers.install file.
+ + * Remove the hardcoded path to the X logo in the Xmu.html file.
+ + * Kill *.xml in the doc directory, no point in shipping them.
+ + * Switch from --list-missing to --fail-missing for additional safety.
+ + -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100
+ +libxmu (2:1.0.5-2) unstable; urgency=high
+ + [ Julien Cristau ]
+ + * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+  good reason. Thanks, Colin Watson!
+  * Remove myself from Uploaders
+  * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
  + libxmuu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
  +
  +  [ Cyril Brulebois ]
  +  * Add myself to Uploaders.
  +  * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
    + for the report.
  +
  +  -- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200
  +
  +libxmu (2:1.0.5-1) unstable; urgency=low
  +
  +  [ Timo Aaltonen ]
  +  * New upstream release.
  +  + Fix 64bit support (closes: #521887)
  +
  +  [ Julien Cristau ]
  +  * Bump Standards-Version to 3.8.3.
  +
  +  -- Julien Cristau <jcristau@debian.org>  Wed, 25 Nov 2009 19:20:17 +0100
  +
  +libxmu (2:1.0.4-2) unstable; urgency=low
  +
  +  [ Julien Cristau ]
  +  * Drop -1 debian revisions from build-deps.
  +  * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a
    + dependency on x11-common.
  +  * Build libxmu-headers in binary-indep instead of binary-arch
    + (closes: #486418). Thanks, Martin Koeppe!
  +  * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
    + * Handle parallel builds.
  +
  +  [ Brice Goglin ]
  +  * Add a link to www.X.org and a reference to the upstream module
    + in the long description.
  +  * Add upstream URL to debian/copyright.
  +  * Add README.source, bump Standards-Version to 3.8.2.
  +  * Use updated xsfbs, closes: #538587.
  +  * Move -dbg packages to section debug.
  +
  +  -- Julien Cristau <jcristau@debian.org>  Fri, 07 Aug 2009 14:30:36 +0200
  +
  +libxmu (2:1.0.4-1) unstable; urgency=low
  +
  +  [ Julien Cristau ]
  +  * New upstream release.
* Make libxmu-dev depend on libxmu-headers (= ${source:Version}). Thanks,
  Josh Triplett.
* Don't export private dependencies in xmu.pc and xmuu.pc. These
  dependencies are handled by Requires:private.
* Due to the above, build-depend on quilt and apply the xsfbs patch rules.
* Update xsfbs to the latest version as of 2008-01-06.
* Add myself to Uploaders, and remove Branden and Fabio with their
  permission.
* Bump Standards-Version to 3.7.3 (no changes).
* s/^XS-Vcs/Vcs/

Timo Aaltonen

* Bump the epoch so that this can be synced to Ubuntu in the future.

Julien Cristau <jcristau@debian.org> Thu, 17 Jan 2008 14:57:47 +0100

libxmu (1:1.0.3-1) unstable; urgency=low

* New upstream release.
* Install the upstream changelog.
* Remove outdated CVS information from the package descriptions, and add
  XS-Vcs-Git and XS-Vcs-Browser.
* Fix package sections (libraries in libs, development stuff in libdevel).
* Use ${binary:Version} instead of ${Source-Version}.

Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200

libxmu (1:1.0.2-2) unstable; urgency=low

Andres Salomon

* Test for obj-S(DEB_BUILD_GNU_TYPE) before creating it during build;
  idempotency fix.

Drew Parsons

* dbg package has priority extra.

David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400

libxmu (1:1.0.2-1) experimental; urgency=low

* New upstream release
* Bump debhelper compat to 5
* Run dh_install with --list-missing
* Version the -headers package's x11-common pre-dep to use version 1:7.0.0
* to match the rest of Debian and shut lintian up
* Bump standards version to 3.7.2.0

David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400
libxmu (1:1.0.1-3) unstable; urgency=low

* Reorder makeshlib command in rules file so that ldconfig is run properly. Thanks Drew Parsons and Steve Langasek.

-- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400

libxmu (1:1.0.1-2) unstable; urgency=low

* Upload to unstable

-- David Nusinow <dnusinow@debian.org>  Thu, 23 Mar 2006 22:44:59 -0500

libxmu (1:1.0.1-1) experimental; urgency=low

* First upload to Debian

-- David Nusinow <dnusinow@debian.org>  Thu, 29 Dec 2005 20:53:53 -0500

libxmu (1:6.2.3-5) breezy; urgency=low

* Also, libxmu-dev needs to depend on libxt-dev too.

-- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000

libxmu (1:6.2.3-4) breezy; urgency=low

* Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!

-- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000

libxmu (1:6.2.3-3) breezy; urgency=low

* Make libxmu-dev depend on libxext-dev, since libxmu links to it.

-- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000

libxmu (1:6.2.3-2) breezy; urgency=low

* Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid _XOPEN_SOURCE.

-- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000

libxmu (1:6.2.3-1) breezy; urgency=low

* First libxmu release.
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+  debhelper (>= 9),
+  dh-autoreconf,
+  libx11-dev (>= 1:0.99.2),
+  libxt-dev (>= 1:0.99.1),
+  libxext-dev (>= 1:0.99.1),
+  pkg-config,
+  quilt,
+  automake,
+  libtool,
+  xutils-dev (>= 1:7.6+2),
+# devel-docs:
+  xmlto (>= 0.0.22),
+  xorg-sgml-doctools (>= 1:1.8),
+  w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+
+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
libxmu6-dbg
Section: debug
Architecture: any
Multi-Arch: same
Priority: extra
Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
Description: X11 miscellaneous utility library (debug package)
libxmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmuu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.

This package contains the debug versions of the library found in libxmu6.
Non-developers likely have little use for this package.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libXmu

libxmu-dev
Section: libdevel
Architecture: any
Multi-Arch: same
Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
headers (= ${source:Version})
Description: X11 miscellaneous utility library (development headers)
libXmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmuu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.

This package contains the development headers for the library found in
libxmu6. Non-developers likely have little use for this package.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libXmu

libxmuu1
Section: libs
Architecture: any
Multi-Arch: same
Pre-Depends: ${misc:Pre-Depends}
Depends: ${shlibs:Depends}, ${misc:Depends}
Description: X11 miscellaneous micro-utility library
libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

This package contains the debug versions of the library found in libxmuu1. Non-developers likely have little use for this package.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X libraries to use. It is a lighter version of libXmu that does not depend on libXt or libXext; for more information on libXmu, see libxmu6.

This package contains the development headers for the library found in libxmuu1. Non-developers likely have little use for this package.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
+ Package: libxmu-headers
+ Section: libdevel
+ Architecture: all
+ Multi-Arch: foreign
+ Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+ Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+
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+
+-----------
+
+Xmu/StrToBmap.c and Xmu/GrayPixmap.c also have:
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+-----------
+
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+- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
+index a086f83..15dabbf 100644
++Requires: xproto xt
+Description: Xmu Library
+Version: @PACKAGE_VERSION@
+Requires: xproto x11 xt
++Requires: xproto xt
+Requires.private: x11 xt xext
+Cflags: -I$(includedir)
+Libs: -L$(includedir) -lxmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
Name: Xmuu

Description: Mini Xmu Library

Version: @PACKAGE_VERSION@

Requires: xproto x11

Requires.private: x11

Cflags: -I${includedir}

Libs: -L${libdir} -lXmuu

-- libxmu-1.1.2.orig/debian/patches/series

+++ libxmu-1.1.2/debian/patches/series

@@ -0,0 +1 @@

+01_dont_export_private_deps.diff

-- libxmu-1.1.2.orig/debian/rules

+++ libxmu-1.1.2/debian/rules

@@ -0,0 +1,34 @@

#!/usr/bin/make -f

# debian/rules for the Debian libxmu package.

## Copyright 2004 Scott James Remnant <scott@netsplit.com>

## Copyright 2005 Daniel Stone <daniel@fooishbar.org>

## Copyright 2005 David Nusinow <dnusinow@debian.org>

+

## Uncomment this to turn on verbose mode.

##export DH_VERBOSE=1

+

.PHONY: build

build:

dh build --with quilt,autoreconf --builddirectory=build/ --parallel

+

$dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel

+

override_dh_auto_configure:
   dh_auto_configure --
   --disable-silent-rules
   --docdir=${prefix}/share/doc/libxmu-headers
   --with-xmlto
   --without-fop

+

override_dh_auto_install:
   dh_auto_install
   find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete

+

override_dh_install-arch:
   dh_install --fail-missing -Xusr/include -X.lib

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+override_dh_strip:
+dh_strip -Nlibxmu6 -Nlibxmuu1
+dh_strip -plibxmu6 --dbg-package=libxmu6-db
+dh_strip -plibxmuu1 --dbg-package=libxmuu1-db
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+#git=git://anongit.freedesktop.org/xorg/lib/libXmu
+version=3
+http://xorg.freedesktop.org/releases/individual/lib/ libXmu-(.*)\.tar\.gz

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

1.1628 perl 5.26.1 6ubuntu0.5
1.1628.1 Available under license:

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

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

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = "\n;
    my $copyright_msg = <$readme>;

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

    $year;
}

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

$year;
}

1.1629 zlib 1.2.11
1.1629.1 Available under license :
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1.1630 curl 7.58.0-2ubuntu3.19
1.1630.1 Available under license :
  License Mixing
  ==============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

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## GnuTLS

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## WolfSSL

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## BoringSSL

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## libressl

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## c-ares

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## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

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## Heimdal

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## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.1631 resilience4j-core 1.7.1

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jar/io/github/resilience4j/core/EventProcessor.java
*/opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
jar/io/github/resilience4j/core/StopWatch.java
*/opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
jar/io/github/resilience4j/core/EventConsumer.java
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jar/io/github/resilience4j/core/EventPublisher.java

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* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
jar/io/github/resilience4j/core/registry/CompositeRegistryEventConsumer.java
* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
jar/io/github/resilience4j/core/metrics/MetricsPublisher.java
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* /opt/cola/permits/1305465779_1649753329.47/resilience4j-core-1-7-1-sources-1.jar/io/github/resilience4j/core/NamingThreadFactory.java
* /opt/cola/permits/1305465779_1649753329.47/resilience4j-core-1-7-1-sources-1.jar/io/github/resilience4j/core/ContextAwareScheduledThreadPoolExecutor.java

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* /opt/cola/permits/1305465779_1649753329.47/resilience4j-core-1-7-1-sources-1.jar/io/github/resilience4j/core/RegistryStore.java

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* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
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  jar/io/github/resilience4j/core/CallableUtils.java
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* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
  jar/io/github/resilience4j/core/registry/package-info.java
* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
  jar/io/github/resilience4j/core/registry/registryEvent.java
* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
  jar/io/github/resilience4j/core/registry/entryAddedEvent.java
* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
  jar/io/github/resilience4j/core/registry/entryReplacedEvent.java
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jar/io/github/resilience4j/core/metrics/PartialAggregation.java
* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
jar/io/github/resilience4j/core/metrics/SlidingTimeWindowMetrics.java
* /opt/cola/permits/1305465779_1649753329.47/0/resilience4j-core-1-7-1-sources-1-
jar/io/github/resilience4j/core/metrics/Metrics.java
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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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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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<one line to give the program's name and a brief idea of what it does.>
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Last updated: 2009-02-28

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.1654 mitchellh-mapstructure 1.5.0

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1.1656 apr 1.6.3 2

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

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.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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That's all there is to it!
/* 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_nicstart() 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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If such an object file uses only numerical parameters, data structure layouts and accessor, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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THE BASIC LIBRARY FUNCTIONS
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1.1678 micrometer-core 1.8.4

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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, 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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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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1.1693 x-sync 0.0.0-20210220032951-036812b2e83c

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1.1694 colorama 0.3.7

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1.1695 libxcursor 1.1.15-1

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1.1696 bsdmainutils 11.1.2ubuntu1

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Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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1.1697 easyjson 0.7.0
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1.1698 cloud-initramfs-tools 0.40ubuntu1.1
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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.

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

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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:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Written by:       Philip Hazel
Email local part: ph10
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STACK-LESS JUST-IN-TIME COMPILER
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1.1708 ubuntu-keyring 2018.09.18.1~18.04.2

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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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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D3DES (V5.09) -

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* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1-7-1-sources-1-jar/io/github/resilience4j/fallback/configure/FallbackConfiguration.java
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* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1-7-1-sources-1-jar/io/github/resilience4j/bulkhead/configure/BulkheadConfigurationProperties.java
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* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1.7.1-sources-1-
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* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1.7.1-sources-1-
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  jar/io/github/resilience4j/spelresolver/SpelRootObject.java
* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1-7-1-sources-1-
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* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1-7-1-sources-1-jar/io/github/resilience4j/fallback/FallbackDecorators.java
* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1-7-1-sources-1-jar/io/github/resilience4j/fallback/RxJava2FallbackDecorator.java
* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1-7-1-sources-1-jar/io/github/resilience4j/fallback/DefaultFallbackDecorator.java
* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1-7-1-sources-1-jar/io/github/resilience4j/fallback/ReactorFallbackDecorator.java
* /opt/cola/permits/1305465771_1649753343.1/0/resilience4j-spring-1-7-1-sources-1-jar/io/github/resilience4j/fallback/FallbackDecorator.java

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AC_PREREQ([2.60])
AC_INIT([glu],
[9.0.0],
[https://bugs.freedesktop.org/enter_bug.cgi?product=Mesa&component=GLU])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CANONICAL_HOST

AM_INIT_AUTOMAKE([dist-bzip2 foreign subdir-objects])

LT_PREREQ([2.2])
LT_INIT

dnl Check for progs
AC_PROG_CPP
AC_PROG_CC
AC_PROG_CXX
dnl Enable quiet compiles on automake 1.11.
m4_ifndef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

AC_ARG_ENABLE(debug,
   AS_HELP_STRING([-enable-debug],
   [Enable debugging information]),
   [CFLAGS="$CFLAGS -g -O0"
   CXXFLAGS="$CXXFLAGS -g -O0"],
   [])

dnl Make sure the pkg-config macros are defined
m4_ifndef([PKG_PROG_PKG_CONFIG],
   [m4_fatal([Could not locate the pkg-config autoconf macros. These are usually located in /usr/share/aclocal/pkg.m4. If your macros are in a different location, try setting the environment variable ACLOCAL="aclocal -I/other/macro/dir" before running autoreconf.])])
PKG_PROG_PKG_CONFIG()

AC_ARG_ENABLE(osmesa,
   AS_HELP_STRING([-enable-osmesa],
   [Enable use of OSMesa instead of libGL]),
   [OSMESA="$enableval"],
   [OSMESA=no])

dnl Get the pkg-config definitions for libGL/OSMesa. We include a fallback
dnl path for implementations that don't provide a .pc file
if test "x$OSMESA" = "xyes"; then
   GLU_REQUIRES="osmesa"
   PKG_CHECK_MODULES(OSMESA, [osmesa], [], [
      AC_CHECK_LIB([OSMesa],
      [glBegin],
      [OSMESA_LIBS=-lOSMesa],
      AC_MSG_ERROR([OSMesa required])
      ])
   else
   GLU_REQUIRES="gl"
   PKG_CHECK_MODULES(GL, [gl], [], [
      AC_CHECK_HEADER([GL/gl.h],
      [],
      AC_MSG_ERROR([GL not found])
      AC_CHECK_LIB([GL],
      [glBegin],
      [GL_LIBS=-lGL],
      AC_MSG_ERROR([GL required])
      ])
   fi
AC_SUBST([GLU_REQUIRES])
Set up C warning and visibility flags. if test "x$GCC" = xyes; then
    WARNCFLAGS="-Wall"

    # Enable -fvisibility=hidden if using a gcc that supports it
    save_CFLAGS="$CFLAGS"
    AC_MSG_CHECKING([whether $CC supports -fvisibility=hidden])
    VISIBILITY_CFLAGS="-fvisibility=hidden"
    CFLAGS="$CFLAGS $VISIBILITY_CFLAGS"
    AC_LINK_IFELSE([AC_LANG_PROGRAM()]), AC_MSG_RESULT([yes]),
    [VISIBILITY_CFLAGS=""; AC_MSG_RESULT([no])];
    # Restore CFLAGS; VISIBILITY_CFLAGS are added to it where needed.
    CFLAGS=$save_CFLAGS
if test "x$GXX" = xyes; then
    WARNCXXFLAGS="-Wall"
    # Enable -fvisibility=hidden if using a gcc that supports it
    save_CXXFLAGS="$CXXFLAGS"
    AC_MSG_CHECKING([whether $CXX supports -fvisibility=hidden])
    VISIBILITY_CXXFLAGS="-fvisibility=hidden"
    CXXFLAGS="$CXXFLAGS $VISIBILITY_CXXFLAGS"
    AC_LANG_PUSH([C++])
    AC_LINK_IFELSE([AC_LANG_PROGRAM()]), AC_MSG_RESULT([yes]),
    [VISIBILITY_CXXFLAGS=""; AC_MSG_RESULT([no])];
    AC_LANG_POP([C++])
    # Restore CXXFLAGS; VISIBILITY_CXXFLAGS are added to it where needed.
    CXXFLAGS=$save_CXXFLAGS
fi else
    AC_CHECK_DECL([__SUNPRO_C], [SUNCC="yes"], [SUNCC="no"])
    if test "x$SUNCC" = "xyes"; then
        WARNCFLAGS="-v"
        WARNCXXFLAGS="-v"
    fi
fi
AC_SUBST([WARNCFLAGS])
AC_SUBST([WARNCXXFLAGS])
AC_SUBST([VISIBILITY_CFLAGS])
AC_SUBST([VISIBILITY_CXXFLAGS])

AC_OUTPUT({
    Makefile
    glu.pc
})
Found in path(s):
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/configure.ac

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* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/coveandtiler.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/bufpool.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-9.0.0/src/libnurbs/internals/hull.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
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* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0.0/src/libnurbs/nurbtess/polyDBG.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0.0/src/libnurbs/interface/glrenderer.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0.0/src/libnurbs/interface/bezierEval.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0.0/src/libnurbs/nurbtess/directedLine.cc

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* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/libglu-9.0.0/include/GL/glu_mangle.h

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* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/libglu-9.0.0/src/libnurbs/nurb tess/sampledLine.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/libglu-9.0.0/src/libnurbs/interface/in curveeval.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/libglu-9.0.0/src/libnurbs/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/libglu-9.0.0/include/GL/glu_mangle.h
9.0.0/src/libnurbs/nurbtess/monoPolyPart.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/interface/BezierPatch.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/internals/DataTransform.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/Quicksort.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/RectBlock.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/PrimitiveStream.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/SampleCompTop.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/PartitionsY.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/PolyUtil.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/MonoChain.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/SampleComp.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/MonoTriangulation.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/internals/Mycode.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/SampleMonoPoly.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/GridWrap.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/SearchTree.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/SampleCompRight.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/internals/MonoTriangulationBackend.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/PartitionX.cc
* /opt/cola/permits/1264085938_1657859054.124335/0/libglu-9-0-0-orig-tar-gz/glu-
9.0.0/src/libnurbs/nurbtess/SampleCompBot.cc
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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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1.1726 libminizip1 1.1-8build1

1.1726.1 Available under license:

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

/*
   Additional tools for Minizip
   Code: Xavier Roche '2004
   License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /opt/cola/permits/1281652483_1646343786.13/0/minizip-1-1-orig-tar-xz/minizip/mztools.h
* /opt/cola/permits/1281652483_1646343786.13/0/minizip-1-1-orig-tar-xz/minizip/mztools.c

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

/* unzip.c -- IO for uncompress .zip files using zlib
   Version 1.1, February 14th, 2010
   part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

   Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDll/minizip.html )

   Modifications of Unzip for Zip64
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   Modifications for Zip64 support on both zip and unzip
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See the accompanying file LICENSE, version 2000-Apr-09 or later (the contents of which are also included in zip.h) for terms of use. If, for some reason, all these files are missing, the Info-ZIP license
The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from patches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

Found in path(s):
* /opt/cola/permits/1281652483_1646343786.13/0/minizip-1-1-orig-tar-xz/minizip/unzip.c
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/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

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---------------------------------------------------------------------------------
Changes

See header of unzip64.c

/*

Found in path(s):
* /opt/cola/permits/1281652483_1646343786.13/0/minizip-1-1-orig-tar-xz/minizip/unzip.h
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/*/ zip.h -- IO on .zip files using zlib
Version 1.1, February 14th, 2010
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---------------------------------------------------------------------------

Changes

See header of zip.h

*/

Found in path(s):
* /opt/cola/permits/1281652483_1646343786.13/0/minizip-1-1-orig-tar-xz/minizip/zip.h
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Introduction

--------------
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( http://www.winimage.com/zLibDll/minizip.html )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.
Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( http://www.gdal.org/ )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

* Added ZIP64 support for unzip ( by Even Rouault )
* Added ZIP64 support for zip ( by Mathias Svensson )
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout   http://result42.com/projects/ZipFileLayout
    Command line tool for Windows that shows the layout and information of the headers in a zip archive.
    Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
    Zip File specification

Notes.
* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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

Found in path(s):
* /opt/cola/permits/1281652483_1646343786.13/0/minizip-1-1-orig-tar-xz/minizip/MiniZip64_info.txt

1.1727 grok 1.0.1

1.1727.1 Available under license:

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1.1728 libminizip-dev 1.1-8build1
1.1728.1 Available under license:

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/* unzip.h -- IO for uncompress .zip files using zlib */
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part of the MiniZip project - ( http://www.winimage.com/zLibDLL/minizip.html )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( http://www.winimage.com/zLibDLL/minizip.html )

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson ( http://result42.com )

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---------------------------------------------------------------------------------
Changes

See header of unzip64.c

/*

Found in path(s):
* /opt/cola/permits/1357682500_1657073618.8323302/0/minizip-1-1-orig-1-tar-xz/minizip/unzip.h
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/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14th, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDLL/minizip.html )
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crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

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

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault
Introduction

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

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0. All possible work was done for compatibility.

Background

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

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

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

* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

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

---

Found in path(s):
* /opt/cola/permits/1357682500_1657073618.8323302/0/minizip-1-1-orig-1-tar-xz/minizip/unzip.c

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*/
Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout  http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note  http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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_________________________________________________________

Found in path(s):
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*

Found in path(s):
* /opt/cola/permits/1357682500_1657073618.8323302/0/minizip-1-1-orig-1-tar-xz/minizip/mztools.c
* /opt/cola/permits/1357682500_1657073618.8323302/0/minizip-1-1-orig-1-tar-xz/minizip/mztools.h

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

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Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )

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Changes
See header of zip.h

*/

Found in path(s):
* /opt/cola/permits/1357682500_1657073618.8323302/0/minizip-1-1-orig-1-tar-xz/minizip/zip.h

1.1729 libxcb-glx0-dev 1.13-2~ubuntu18.04
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1.1731 go-metrics 0.3.3

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1.1732 kmod 24 1ubuntu3.5

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1.1736 pcre 8.44

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Agreement version 2.4

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Version 3, 29 June 2007

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Glenn Randers-Pehrson
glenrnp at users.sourceforge.net
September 29, 2017
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#
built/unix/pkg.m4
#
/docs/FTL.TXT
docs/GPLv2.TXT
#
/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
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src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/ftrandom/ftrandom.c
#
# EOF
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# version 0.1
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1.1764 libqgsttools-p1 5.9.5-0ubuntu1

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Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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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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DES core in libhcrypto

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D3DES (V5.09) -

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1.1771 libfuse 2.9.7-1ubuntu1

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* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codecs/socks/SocksAuthRequestDecoder.java
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1.1781 kubernetes-apimachinery 0.19.3

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Preamble
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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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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
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(28) Artem Bityuckiy (--enable-newlib-iconv)

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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fields:
  site: string
  author: root

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its purpose remains meaningful.

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

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

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

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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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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.

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e) Verify that the user has already received a copy of these
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1.1817 deislabs-oras 0.8.1

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1.1818 grpc-go 1.46.0

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=== EOF ===

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1.1825 mhash 0.9.9.9-7
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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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(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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1.1826 astroid 2.11.6
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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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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%global srcname Deprecated
%global pkgname deprecated

Name:           python-%{pkgname}
Version:        1.2.13
Release:        1%{?dist}
Summary:        Python decorator to deprecate old python classes, functions or methods
License:        MIT
URL:            https://github.com/tantale/%{pkgname}
Source0:        %{pypi_source}
BuildArch:      noarch

description
Python @deprecated decorator to deprecate old python classes,
functions or methods.

%package -n python3-%{pkgname}
Summary: %{summary}
BuildRequires: python3-devel
BuildRequires: python3-setuptools
%{?python_provide:%python_provide python3-%{pkgname}}

%description -n python3-%{pkgname}
Python @deprecated decorator to deprecate old python classes, functions or methods.

%prep
%autosetup -n %{srcname}-%{version}
rm -rf %{pkgname}.egg-info

%build
%py3_build

%install
%py3_install

%files -n python3-%{pkgname}
%license LICENSE.rst
%doc README.md
%{python3_sitelib}/%{pkgname}/
%{python3_sitelib}/%{srcname}-*.egg-info/

%changelog
* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-2
  - Fix python3_sitelib issue

* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-1
  - Initial package

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It was downloaded from http://www.vorbis.com/download_unix.psp

Upstream Author(s): Monty <monty@xiph.org>

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1.1837 libvirt-clients 4.0.0-1ubuntu8.21

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1.1838 x-net 0.0.0-20211112202133-69e39bad7dc2

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1.1839 unzip 6.0-21ubuntu1.1

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There are currently two explicit copyrights on portions of UnZip
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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
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"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."

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.1840 findutils 4.6.0+git+20170828 2
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1.1842 libgpg-error-dev 1.27-6

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1.1843 libxcb-present-dev 1.13-2~ubuntu18.04

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* /opt/cola/permits/1112082522_1607034672.43/0/stringio-0-0-1-1-gem/data-tar-gz/stringio.c

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1.1856 berkeley-db 5.3.28-13.1ubuntu1

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It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

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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.

Changed so as no longer to depend on Colin Plumb's `usual.h'
header definitions; now uses stuff from dpkg's config.h
- Ian Jackson <ijackson@nyx.cs.du.edu>
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1.1865 kubernetes/kubectl 0.19.3

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Copy files to and from Containers in a cluster

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `</path>`
- Remote file format is `</pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `</path>`
- Remote file format is `</pod-name>:<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `--c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

1.1866 libbsd 0.8.7 1ubuntu0.1

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   include/bsd/stringlist.h
   man/fmtcheck.3bsd
   man/humanize_number.3bsd
   man/stringlist.3bsd
   man/timeval.3bsd
   src/fmtcheck.c
   src/humanize_number.c
   src/stringlist.c

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man/byteorder.3bsd
man/closefrom.3bsd
man/expand_number.3bsd
man/fopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
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src/hash/sha512.h
src/hash/sha512c.c
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man/fparseln.3bsd
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man/readpassphrase.3bsd
man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy BSD.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/readpassphrase.c
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src/hash/md5.c
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src/chacha_private.h
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src/hash/helper.c

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1.1867 jinja2 3.0.3

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* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/LICENSE.rst

No license file was found, but licenses were detected in source scan.
[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://jinja.palletsprojects.com/
  Changes = https://jinja.palletsprojects.com/changes/
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license = BSD-3-Clause
license_files = LICENSE.rst
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 = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Web Environment
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python
  Topic :: Internet :: WWW/HTTP :: Dynamic Content
  Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
package_dir = = src
include_package_data = true
python_requires = >= 3.6

[options.packages.find]
where = src

[options.entry_points]
babel.extractors =
jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings =
error
ignore: The loop argument: DeprecationWarning: asyncio.base_events:542

[coverage:run]
branch = True
source =
jinja2
tests

[coverage:paths]
source =
src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- i18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
---------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}

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* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO
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1.1868 color 1.10.0

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1.1871 libxinerama-dev 1.1.3-1

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**1.1879 armon-go-metrics 0.3.3**

**1.1879.1 Available under license:**

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**1.1880 aws-sdk-go-v2 1.16.3**

**1.1880.1 Available under license:**

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
"context"
// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, c.addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }
    
    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * Fingerprint
    //
    // * IssuerName
    //
    // * Beneficiary
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
}
type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = aws middleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithy http.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    return nil
}
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

name: License Scan

on: [pull_request]

jobs:
  licensescan:
name: License Scan
runs-on: ubuntu-latest
strategy:
  matrix:
    python-version: [3.9]
steps:
- name: Checkout target
  uses: actions/checkout@v2
  with:
    path: sdkbase
    ref: ${{ github.base_ref }}
- name: Checkout this ref
  uses: actions/checkout@v2
  with:
    path: new-ref
    fetch-depth: 0
- name: Get Diff
  run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }} ${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
  run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Get Target Files
  run: git --git-dir ./new-ref/.git ls-files | grep -xf refDiffFiles.txt - > new-licenses.txt
- name: Self-configure scancode
  working-directory: ./scancode-toolkit
  run: ./scancode --help
- name: Run Scan code on target
  run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
  run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
- name: License test
  run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi

// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import (
    "context"
    awsrmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
    c.addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string

    noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = aws middleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = aws middleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = aws middleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorResponseCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns ...
    func(*Options)) (*DisassociateLicenseOutput, error) {
    if params == nil {
        params = &DisassociateLicenseInput{}
    }

    result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
        c.addOperationDisassociateLicenseMiddlewares)
    if err != nil {
// The type of license to remove from the workspace.
// // This member is required.
LicenseType types.LicenseType

// The ID of the workspace to remove the Grafana Enterprise license from.
// // This member is required.
WorkspaceId *string

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
func newServiceMetadataMiddleware_opDisassociateLicense(region string)
    *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "DisassociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, c.addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

// Amazon Resource Name (ARN) of the license.
// This member is required.
LicenseArn *string

// License version.
Version *string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
  }
  if err = addRetryMiddlewares(stack, options); err != nil {
    return err
  }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
import {
  "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
  if params == nil {
    params = &CheckoutBorrowLicenseInput{
  }
}

  result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
  c.addOperationCheckoutBorrowLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*CheckoutBorrowLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type CheckoutBorrowLicenseInput struct {

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // Digital signature method. The possible value is JSON Web Signature (JWS)
  // algorithm PS384. For more information, see RFC 7518 Digital Signature with
  //
  // This member is required.
  DigitalSignatureMethod types.DigitalSignatureMethod

  // License entitlements. Partial checkouts are not supported.
  //
  // This member is required.
  Entitlements []types.EntitlementData
}
// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.

// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

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}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata {
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
    c.addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    return result, metadata
}

return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

  // Checkout type.
  //
  // This member is required.
  CheckoutType types.CheckoutType

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // License entitlements.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Key fingerprint identifying the license.
  //
  // This member is required.
  KeyFingerprint *string

  // Product SKU.
  //
  // This member is required.
  ProductSKU *string

  // License beneficiary.
  Beneficiary *string

  // Node ID.
  NodeId *string

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}

type CheckoutLicenseOutput struct {

  // Checkout type.

CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeID *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
  if err != nil {
    return err
  }
  if err != nil {
    return err
  }
  if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
  }
  if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
  }
  if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
  }
  if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
  }
  return nil
}
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSingerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsAddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsAddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
package licensemanager

import (  
    "context"
    aws middleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
    "github.com/aws/smithy-go/middleware"  
    smithy http "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {  
    if params == nil {  
        params = &ListLicensesInput{}  
    }  

    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, c.addOperationListLicensesMiddlewares)  
    if err != nil {  
        return nil, err  
    }

    out := result.(*ListLicensesOutput)  
    out.ResultMetadata = metadata  
    return out, nil  
}

type ListLicensesInput struct {  

    // Filters to scope the results. The following filters are supported:  
    //  
    // *  
    // Beneficiary  
    //  
    // * ProductSKU

Region: region,  
ServiceID: ServiceID,  
SigningName: "license-manager",  
OperationName: "CheckoutLicense",  
}  

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Copyright 2014-2015 Stripe, Inc.  
// Code generated by smithy-go-codegen DO NOT EDIT.
//
// * Fingerprint
//
// * Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

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}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

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}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
}
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsMiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsMiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsMiddleware.RegisterServiceMetadata {
    return &awsMiddleware.RegisterServiceMetadata{
        Region: region,
package licensemanager

import (  
"context"  
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"  
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"  
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"  
"github.com/aws/smithy-go/middleware"  
smithyhttp "github.com/aws/smithy-go/smithy-go/transport/http"
)

// Deletes the specified license.  
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
if params == nil {
    params = &DeleteLicenseInput{
}
}

result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
if err != nil {
    return nil, err
}

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {
    // Amazon Resource Name (ARN) of the license.
    // // This member is required.
    LicenseArn *string

    // Current version of the license.
    // // This member is required.
    SourceVersion *string
}

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}

type DeleteLicenseOutput struct {
    // Date when the license is deleted.
    DeletionDate *string

    // License status.
    Status types.LicenseDeletionStatus

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

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}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }

if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = aws middleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = aws middleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = aws middleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIdRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/grafana/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana Enterprise incurs additional fees. For more information, see Upgrade a workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
    if params == nil {
        params = &AssociateLicenseInput{ }
    }
    result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }
    return result, metadata
out := result.(*AssociateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type AssociateLicenseInput struct {

// The type of license to associate with the workspace.
//
// This member is required.
LicenseType types.LicenseType

// The ID of the workspace to associate the license with.
//
// This member is required.
WorkspaceId *string

}

type AssociateLicenseOutput struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
    return err
}

er = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
    return err
}

if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "grafana",
        OperationName: "AssociateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{ }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, c.addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string
}
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *typesDatetimeRange
// Information about the license.
LicenseMetadata []types.Metadata

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}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err != nil {
return err
}
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:          region,
        ServiceID:       ServiceID,
        SigningName:     "license-manager",
        OperationName:   "CreateLicense",
    }
}
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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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from a designated place, offer equivalent access to copy the above
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Library" must include any data and utility programs needed for
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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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========

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    mach_override       lib/interception/mach_override

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Mersenne Twister
---------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
------

The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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