



Open Source Used In cloud-connectivity-tethering Bighorn1.7

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In your requests please include the following reference number 78EE117C99-1680712773

Contents

1.1 Isof 4.89+dfsg-0.1

1.1.1 Available under license

1.2 cdebconf 0.213ubuntu1

1.2.1 Available under license

1.3 mime-support 3.60ubuntu1

1.3.1 Available under license

1.4 dash 0.5.8-2.10

1.4.1 Available under license

1.5 debianutils 4.8.4

1.5.1 Available under license

1.6 diffutils 3.6-1

1.6.1 Available under license

1.7 hostname 3.20

1.7.1 Available under license

1.8 init-system-helpers 1.51

1.8.1 Available under license

1.9 libffi 3.2.1-8

1.9.1 Available under license

1.10 libsepol 2.7-1

1.10.1 Available under license

1.11 sensible-utils 0.0.12

1.11.1 Available under license

1.12 adduser 3.116ubuntu1

1.12.1 Available under license

1.13 attr 2.4.47-2build1

1.13.1 Available under license

- 1.14 base-passwd 3.5.44**
 - 1.14.1 Available under license
- 1.15 coreutils 8.28-1ubuntu1**
 - 1.15.1 Available under license
- 1.16 findutils 4.6.0+git+20170828-2**
 - 1.16.1 Available under license
- 1.17 gzip 1.6-5ubuntu1**
 - 1.17.1 Available under license
- 1.18 lsb 9.20170808ubuntu1**
 - 1.18.1 Available under license
- 1.19 mawk 1.3.3-17ubuntu3**
- 1.20 sysv-init 2.88dsf-59.10ubuntu1**
 - 1.20.1 Available under license
- 1.21 zlib 1.2.11.dfsg-0ubuntu2**
 - 1.21.1 Available under license
- 1.22 build-essential 12.4ubuntu1**
 - 1.22.1 Available under license
- 1.23 dh-python 3.20180325ubuntu2**
 - 1.23.1 Available under license
- 1.24 lz4 0.0~r131-2ubuntu3**
 - 1.24.1 Available under license
- 1.25 debconf 1.5.66ubuntu1**
- 1.26 apparmor 2.12-4ubuntu5.1**
 - 1.26.1 Available under license
- 1.27 pygobject 3.26.1-2ubuntu1**
 - 1.27.1 Available under license
- 1.28 shadow 4.5-1ubuntu2**
 - 1.28.1 Available under license
- 1.29 wget 1.19.4-1ubuntu2.2**
 - 1.29.1 Available under license
- 1.30 mpdecimal 2.4.2-1ubuntu1**
 - 1.30.1 Available under license
- 1.31 libidn 1.33-2.1ubuntu1.2**
 - 1.31.1 Available under license
- 1.32 netbase 5.4**
 - 1.32.1 Available under license
- 1.33 pciutils 3.5.2-1ubuntu1.1**
 - 1.33.1 Available under license
- 1.34 fakeroot 1.22-2ubuntu1**

1.34.1 Available under license

1.35 wheel 0.30.0-0.2

1.35.1 Available under license

1.36 libunistring 0.9.9-0ubuntu2

1.36.1 Available under license

1.37 keyutils 1.5.9-9.2ubuntu2

1.37.1 Available under license

1.38 xdg-user-dirs 0.17-1ubuntu1

1.38.1 Available under license

1.39 net-tools 1.60+git20161116.90da8a0-1ubuntu1

1.39.1 Available under license

1.40 python-idna 2.6-1

1.40.1 Available under license

1.41 idna 2.6

1.41.1 Available under license

1.42 python-secretstorage 2.3.1-2

1.42.1 Available under license

1.43 make 4.1-9.1ubuntu1

1.43.1 Available under license

1.44 keyrings-alt 3.0-1

1.44.1 Available under license

1.45 cpp 7.4.0-1ubuntu2.3

1.45.1 Available under license

1.46 bash 4.4.18-2ubuntu1.2

1.46.1 Available under license

1.47 patch 2.7.6-2ubuntu1.1

1.47.1 Available under license

1.48 iputils 20161105-1ubuntu3

1.48.1 Available under license

1.49 libassuan 2.5.1-2

1.49.1 Available under license

1.50 tree 1.7.0-5

1.50.1 Available under license

1.51 expat 2.2.5-3ubuntu0.2

1.51.1 Available under license

1.52 dpkg 1.19.0.5ubuntu2.3

1.52.1 Available under license

1.53 procps 3.3.12-3ubuntu1.2

1.53.1 Available under license

1.54 grep 3.1-2build1

1.54.1 Available under license

1.55 oauth2-client 4.1.3

1.55.1 Available under license

1.56 libidn 2.0.4-1.1ubuntu0.2

1.56.1 Available under license

1.57 ubuntu-keyring 2018.09.18.1~18.04.0

1.57.1 Available under license

1.58 sed 4.4-2

1.58.1 Available under license

1.59 libcap-ng 0.7.7-3.1

1.59.1 Available under license

1.60 gmp 6.1.2+dfsg-2

1.60.1 Available under license

1.61 npth 1.5-3

1.61.1 Available under license

1.62 mpfr 4.0.1-1

1.62.1 Available under license

1.63 gdbm 1.14.1-6

1.63.1 Available under license

1.64 python-stdlib-extensions 3.6.9-1~18.04

1.64.1 Available under license

1.65 pcre 8.39-9

1.65.1 Available under license

1.66 pinentry 1.1.0-1

1.66.1 Available under license

1.67 gobject-introspection 1.56.1-1

1.67.1 Available under license

1.68 geo-ip 1.6.12-1

1.68.1 Available under license

1.69 linux-atm 2.5.1-2build1

1.69.1 Available under license

1.70 libpsl 0.19.1-5build1

1.70.1 Available under license

1.71 netkit-telnet 0.17-41

1.71.1 Available under license

1.72 libcap 2.25-1.2

1.72.1 Available under license

1.73 liblocale-gettext-perl 1.07-3build2

1.73.1 Available under license

1.74 python-cffi 1.11.5-1

1.74.1 Available under license

1.75 ncurses 6.1-1ubuntu1.18.04

1.75.1 Available under license

1.76 iptables 1.6.1-2ubuntu2

1.76.1 Available under license

1.77 elfutils 0.170-0.4ubuntu0.1

1.77.1 Available under license

1.78 libsemanage 2.7-2build2

1.78.1 Available under license

1.79 nettle 3.4-1

1.79.1 Available under license

1.80 acl 2.2.52-3build1

1.80.1 Available under license

1.81 berkeley-db 5.3.28-13.1ubuntu1.1

1.81.1 Available under license

1.82 bzip2 1.0.6-8.1ubuntu0.2

1.82.1 Available under license

1.83 python-setuptools 39.0.1

1.83.1 Available under license

1.84 python-keyring 10.6.0-1

1.84.1 Available under license

1.85 libfile-fcntllock-perl 0.22-3build2

1.85.1 Available under license

1.86 libalgorithm-diff-xs-perl 0.04-5

1.86.1 Available under license

1.87 libgpg-error 1.27-6

1.87.1 Available under license

1.88 lm-sensors 3.4.0-4

1.88.1 Available under license

1.89 isl 0.19-1

1.89.1 Available under license

1.90 mpclib 1.1.0-1

1.90.1 Available under license

1.91 libgcrypt 1.8.1-4ubuntu1.2

1.91.1 Available under license

1.92 e2fsprogs 1.44.1-1ubuntu1.3

1.92.1 Available under license

1.93 pyasn1-modules 0.2.8

1.93.1 Available under license

1.94 tcpdump 4.9.3-0ubuntu0.18.04.1

1.94.1 Available under license

1.95 dns-python 1.16.0

1.95.1 Available under license

1.96 keyrings-alt 3.0

1.96.1 Available under license

1.97 cpp 8.4.0-1ubuntu1~18.04

1.97.1 Available under license

1.98 cpp 7.5.0-3ubuntu1~18.04

1.98.1 Available under license

1.99 tcp-wrappers 7.6.q-27

1.99.1 Available under license

1.100 json-c 0.12.1-1.3ubuntu0.3

1.100.1 Available under license

1.101 jsonschema 2.5.1

1.101.1 Available under license

1.102 pygobject 3.26.1

1.102.1 Available under license

1.103 python3-venv 3.6.7-1~18.04

1.103.1 Available under license

1.104 opentracing-instrumentation 2.4.3

1.104.1 Available under license

1.105 opentracing 1.3.0

1.105.1 Available under license

1.106 threadloop 1.0.2

1.106.1 Available under license

1.107 keyring 10.6.0

1.107.1 Available under license

1.108 libcilkrts 7.5.0-3ubuntu1~18.04

1.108.1 Available under license

1.109 g-7 7.5.0-3ubuntu1~18.04

1.109.1 Available under license

1.110 python3-crypto 2.6.1-8ubuntu2

1.110.1 Available under license

1.111 python3-keyring 10.6.0-1

1.111.1 Available under license

1.112 cpp-7 7.5.0-3ubuntu1~18.04

1.112.1 Available under license
1.113 libatomic 8.4.0-1ubuntu1~18.04
1.113.1 Available under license
1.114 python3-keyrings.alt 3.0-1
1.114.1 Available under license
1.115 gcc-7-base 7.5.0-3ubuntu1~18.04
1.115.1 Available under license
1.116 libgcc-7-dev 7.5.0-3ubuntu1~18.04
1.116.1 Available under license
1.117 libjson-c3 0.12.1-1.3ubuntu0.3
1.117.1 Available under license
1.118 libasan4 7.5.0-3ubuntu1~18.04
1.118.1 Available under license
1.119 xz 5.2.2-1.3
1.119.1 Available under license
1.120 base-files 10.1ubuntu2.10
1.120.1 Available under license
1.121 d-bus 1.12.2-1ubuntu1.2
1.121.1 Available under license
1.122 sqlite 3.22.0-1ubuntu0.4
1.122.1 Available under license
1.123 netcat 1.10-41.1
1.123.1 Available under license
1.124 net-snmp 5.7.3+dfsg-1.8ubuntu3.6
1.124.1 Available under license
1.125 libpcap 1.8.1-6ubuntu1.18.04.2
1.125.1 Available under license
1.126 pycrypto 2.6.1-8ubuntu2
1.126.1 Available under license
1.127 setuptools-scm 3.4.3
1.127.1 Available under license
1.128 jaeger-client 3.8.0
1.128.1 Available under license
1.129 pymongo 3.10.1
1.129.1 Available under license
1.130 nghttp2 1.30.0-1ubuntu1
1.130.1 Available under license
1.131 pam 1.1.8-3.6ubuntu2.18.04.2
1.131.1 Available under license

1.132 libyaml 0.2.5

1.132.1 Available under license

1.133 hprof2flamegraph 0.0.6

1.133.1 Available under license

1.134 click-completion 0.2.1

1.134.1 Available under license

1.135 toml 0.9.2

1.135.1 Available under license

1.136 readline-common 7.0-3

1.136.1 Available under license

1.137 pika 0.10.0

1.137.1 Available under license

1.138 pycrypto 2.6.1

1.138.1 Available under license

1.139 telnet 0.17-41

1.139.1 Available under license

1.140 ip-address 1.0.17

1.140.1 Available under license

1.141 idna 2.7

1.141.1 Available under license

1.142 libgeoip 1.6.12-1

1.142.1 Available under license

1.143 libgssapiheimdal 7.5.0+dfsg-1

1.143.1 Available under license

1.144 libheimntlmheimdal 7.5.0+dfsg-1

1.144.1 Available under license

1.145 libasnheimdal 7.5.0+dfsg-1

1.145.1 Available under license

1.146 libkrbheimdal 7.5.0+dfsg-1

1.146.1 Available under license

1.147 libncurses 6.1-1ubuntu1.18.04

1.147.1 Available under license

1.148 libhxheimdal 7.5.0+dfsg-1

1.148.1 Available under license

1.149 librokenheimdal 7.5.0+dfsg-1

1.149.1 Available under license

1.150 libhcryptoheimdal 7.5.0+dfsg-1

1.150.1 Available under license

1.151 libwindheimdal 7.5.0+dfsg-1

1.151.1 Available under license
1.152 netcat-traditional 1.10-41.1
1.152.1 Available under license
1.153 libnghttp2-14 1.30.0-1ubuntu1
1.153.1 Available under license
1.154 libheimbaseheimdal 7.5.0+dfsg-1
1.154.1 Available under license
1.155 wheel 0.30.0
1.155.1 Available under license
1.156 python3-asn1crypto 0.24.0
1.156.1 Available under license
1.157 appdirs 1.4.3
1.157.1 Available under license
1.158 pyasn1 0.4.8
1.158.1 Available under license
1.159 async-timeout 3.0.1
1.159.1 Available under license
1.160 idna 2.10
1.160.1 Available under license
1.161 packaging 17.1
1.161.1 Available under license
1.162 pyparsing 2.2.0
1.162.1 Available under license
1.163 six 1.11.0
1.163.1 Available under license
1.164 motor 1.1
1.164.1 Available under license
1.165 aiohttp 2.2.5
1.165.1 Available under license
1.166 ipcalc 1.99.0
1.166.1 Available under license
1.167 python-json-logger 0.1.5
1.167.1 Available under license
1.168 influxdb 3.0.0
1.168.1 Available under license
1.169 pykube 0.15.0
1.169.1 Available under license
1.170 uvloop 0.7.0
1.170.1 Available under license

- 1.171 python-etcd 0.4.5**
 - 1.171.1 Available under license
- 1.172 monotonic 1.1**
 - 1.172.1 Available under license
- 1.173 pyformance 0.3.4**
 - 1.173.1 Available under license
- 1.174 aiohttp-swagger 1.0.4**
 - 1.174.1 Available under license
- 1.175 yarl 0.18.0**
 - 1.175.1 Available under license
- 1.176 multidict 4.7.6**
 - 1.176.1 Available under license
- 1.177 python3-secretstorage 2.3.1-2**
 - 1.177.1 Available under license
- 1.178 libgirepository 1.56.1-1**
 - 1.178.1 Available under license
- 1.179 python3-asn1crypto 0.24.0-1**
 - 1.179.1 Available under license
- 1.180 cryptography 2.1.4**
 - 1.180.1 Available under license
- 1.181 python3-idna 2.6-1**
 - 1.181.1 Available under license
- 1.182 libstdc-7-dev 7.5.0-3ubuntu1~18.04**
 - 1.182.1 Available under license
- 1.183 gir 1.56.1-1**
 - 1.183.1 Available under license
- 1.184 python-six 1.11.0-2**
 - 1.184.1 Available under license
- 1.185 python3-cffi-backend 1.11.5-1**
 - 1.185.1 Available under license
- 1.186 python-gi 3.26.1-2ubuntu1**
 - 1.186.1 Available under license
- 1.187 libfakeroot 1.22-2ubuntu1**
 - 1.187.1 Available under license
- 1.188 python-pkg-resources 39.0.1-2**
 - 1.188.1 Available under license
- 1.189 apt 1.6.12ubuntu0.2**
 - 1.189.1 Available under license
- 1.190 gnutls 3.5.18-1ubuntu1.4**

1.190.1 Available under license
1.191 libseccomp 2.4.3-1ubuntu3.18.04.3
1.191.1 Available under license
1.192 util-linux 2.31.1-0.4ubuntu3.7
1.192.1 Available under license
1.193 perl 5.26.1-6ubuntu0.5
1.193.1 Available under license
1.194 zip 3.0-11build1
1.194.1 Available under license
1.195 futures 3.1.1
1.195.1 Available under license
1.196 distro 1.0.1
1.196.1 Available under license
1.197 distlib 0.2.6
1.197.1 Available under license
1.198 html5lib 0.999999999
1.198.1 Available under license
1.199 lockfile 0.12.2
1.199.1 Available under license
1.200 progress 1.2
1.200.1 Available under license
1.201 webencodings 0.5
1.201.1 Available under license
1.202 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3
1.202.1 Available under license
1.203 unzip 6.0-21ubuntu1.1
1.203.1 Available under license
1.204 python 3.6.9
1.204.1 Available under license
1.205 tar 1.29b-2ubuntu0.2
1.205.1 Available under license
1.206 pyxdg 0.25
1.206.1 Available under license
1.207 cert-validator 1.5.5
1.207.1 Available under license
1.208 certvalidator 0.11.1
1.208.1 Available under license
1.209 iconv 2.27
1.209.1 Available under license

1.210 file 5.32-2ubuntu0.4
1.210.1 Available under license

1.211 selinux 2.7-2build2
1.211.1 Available under license

1.212 traceroute 2.1.0-2
1.212.1 Available under license

1.213 pyxdg 0.25-4ubuntu1.1
1.213.1 Available under license

1.214 python-cryptography 2.1.4-1ubuntu1.4
1.214.1 Available under license

1.215 audit 2.8.2-1ubuntu1.1
1.215.1 Available under license

1.216 iproute 4.15.0-2ubuntu1.3
1.216.1 Available under license

1.217 sudo 1.8.21p2-3ubuntu1.4
1.217.1 Available under license

1.218 libalgorithm-merge-perl 0.08-3
1.218.1 Available under license

1.219 libalgorithm-diff-perl 1.19.03-1
1.219.1 Available under license

1.220 man-pages 4.15-1
1.220.1 Available under license

1.221 public-suffix 20180223.1310-1
1.221.1 Available under license

1.222 six 1.11.0-2
1.222.1 Available under license

1.223 geoip-database 20180315-1
1.223.1 Available under license

1.224 python-dateutil 2.7.3-1.ph3
1.224.1 Available under license

1.225 perl-modules 5.26.1-6ubuntu0.5
1.225.1 Available under license

1.226 libperl 5.26.1-6ubuntu0.5
1.226.1 Available under license

1.227 python-setuptools 39.0.1-2
1.227.1 Available under license

1.228 libldap-common 2.4.45+dfsg-1ubuntu1.10
1.228.1 Available under license

1.229 zstd 1.3.3+dfsg-2ubuntu1.2

1.229.1 Available under license

1.230 tdb 1.44.1

1.230.1 Available under license

1.231 glibc 2.27-3ubuntu1.4

1.231.1 Available under license

1.232 libpkit 0.23.9-2ubuntu0.1

1.232.1 Available under license

1.233 systemd 237-3ubuntu10.45

1.233.1 Available under license

1.234 open-ldap 2.4.45+dfsg-1ubuntu1.10

1.234.1 Available under license

1.235 libtasn 4.13-2

1.235.1 Available under license

1.236 kerberos 1.16-2ubuntu0.2

1.236.1 Available under license

1.237 cachecontrol 0.11.7

1.237.1 Available under license

1.238 secretstorage 2.3.1

1.238.1 Available under license

1.239 pyjwt 1.5.1

1.239.1 Available under license

1.240 gnupg 2.2.4-1ubuntu1.4

1.240.1 Available under license

1.241 psutil 5.6.6

1.241.1 Available under license

1.242 telemetry-agent 1.5.0

1.242.1 Available under license

1.243 libc 2.27-3ubuntu1.4

1.243.1 Available under license

1.244 python-pip 9.0.1

1.244.1 Available under license

1.245 future 0.18.2

1.245.1 Available under license

1.246 urllib3 1.25.11

1.246.1 Available under license

1.247 urllib3 1.22

1.247.1 Available under license

1.248 rsa 4.5

1.248.1 Available under license

1.249 python-requests 2.25.1

1.249.1 Available under license

1.250 jinja2 2.8

1.250.1 Available under license

1.251 python-requests 2.18.4

1.251.1 Available under license

1.252 markupsafe 1.1.1

1.252.1 Available under license

1.253 click 6.6

1.253.1 Available under license

1.254 tornado 4.5.3

1.254.1 Available under license

1.255 python3-xdg 0.25-4ubuntu1.1

1.255.1 Available under license

1.256 python3-cryptography 2.1.4-1ubuntu1.4

1.256.1 Available under license

1.257 urllib3 1.26.5

1.257.1 Available under license

1.258 python-certifi 2018.1.18

1.258.1 Available under license

1.259 future 0.18.2-1.ph3

1.259.1 Available under license

1.260 maglev-fips 1.0

1.260.1 Available under license

1.261 python-pip 9.0.1-2.3~ubuntu1.18.04.5

1.261.1 Available under license

1.262 libsnmp30 5.7.3+dfsg-1.8ubuntu3.6

1.262.1 Available under license

1.263 snmp 5.7.3+dfsg-1.8ubuntu3.6

1.263.1 Available under license

1.264 libsnmp-base 5.7.3+dfsg-1.8ubuntu3.6

1.264.1 Available under license

1.265 contextlib2 21.6.0

1.265.1 Available under license

1.266 idna 13.0.0

1.266.1 Available under license

1.267 libatm 2.5.1-2build1

1.267.1 Available under license

1.268 libxml2 2.9.4+dfsg1-6.1ubuntu1.4

1.268.1 Available under license
1.269 backports.zoneinfo 0.2.1
1.269.1 Available under license
1.270 libpam-cap 2.25-1.2
1.270.1 Available under license
1.271 libsensors 3.4.0-4
1.271.1 Available under license
1.272 curl 7.58.0-2ubuntu3.16
1.272.1 Available under license
1.273 ca-certificates 20210119~18.04.2
1.273.1 Available under license
1.274 zipp 3.6.0
1.274.1 Available under license
1.275 pytz 2021.3
1.275.1 Available under license
1.276 cachetools 4.2.4
1.276.1 Available under license
1.277 urllib3 1.26.6-1.ph1
1.277.1 Available under license
1.278 pytz-deprecation-shim 0.1.0.post0
1.278.1 Available under license
1.279 binutils 2.30-21ubuntu1~18.04.7
1.279.1 Available under license
1.280 wrapt 1.13.3
1.280.1 Available under license
1.281 tzdata 2021e-0ubuntu0.18.04
1.281.1 Available under license
1.282 bind 9.11.3+dfsg-1ubuntu1.16
1.282.1 Available under license
1.283 importlib-resources 5.4.0
1.283.1 Available under license
1.284 icu 60.2-3ubuntu3.2
1.284.1 Available under license
1.285 thrift 0.15.0
1.285.1 Available under license
1.286 libisc169 9.11.3+dfsg-1ubuntu1.16
1.286.1 Available under license
1.287 dnsutils 9.11.3+dfsg-1ubuntu1.16
1.287.1 Available under license

1.288 liblwres160 9.11.3+dfsg-1ubuntu1.16
1.288.1 Available under license

1.289 bind9-host 9.11.3+dfsg-1ubuntu1.16
1.289.1 Available under license

1.290 libisccfg160 9.11.3+dfsg-1ubuntu1.16
1.290.1 Available under license

1.291 libdns1100 9.11.3+dfsg-1ubuntu1.16
1.291.1 Available under license

1.292 libbind 9.11.3+dfsg-1ubuntu1.16
1.292.1 Available under license

1.293 libisccc160 9.11.3+dfsg-1ubuntu1.16
1.293.1 Available under license

1.294 libirs160 9.11.3+dfsg-1ubuntu1.16
1.294.1 Available under license

1.295 openssl 1.1.1-1ubuntu2.1~18.04.14
1.295.1 Available under license

1.296 glib 2.56.4-0ubuntu0.18.04.9
1.296.1 Available under license

1.297 python 3.6.9-1~18.04ubuntu1.6
1.297.1 Available under license

1.298 setuptools-rust 1.1.2
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1.300 python3.6-venv 3.6.9-1~18.04ubuntu1.6
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1.301 libpython3-6-minimal 3.6.9-1~18.04ubuntu1.6
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1.302 libpython3-6-stdlib 3.6.9-1~18.04ubuntu1.6
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1.303 libpython 3.6.9-1~18.04ubuntu1.6
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1.305.1 Available under license

1.306 chardet 3.0.4
1.306.1 Available under license

1.307 vim 8.0.1453-1ubuntu1.8

1.308 xxd 8.0.1453-1ubuntu1.8

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1.325 pyflame 1.6.6-1ubuntu1~ppa~1.gbp8fefec~bionic0

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1.358 python-setuptools 59.6.0

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1.1 Isof 4.89+dfsg-0.1

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: Isof

Upstream-Contact: <https://lists.rcac.purdue.edu/listinfo/lsf-1>

Source: <ftp://lsf.itap.purdue.edu/pub/tools/unix/lsf/>

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.

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1.2 cdebconf 0.213ubuntu1

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Other contributors include:

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David Whedon <dwhedon@gordian.com>

Dan Jacobowitz <dan@debian.org>

Tollef Fog Heen <tfheen@debian.org>

Attilio Fiandrotti <fiandro@tiscali.it>

Colin Watson <cjwatson@debian.org>

Regis Boudin <regis@debian.org>

CDebConf includes ideas and code from:

debconf - The original, de facto, perl implementation

(c) Joey Hess <joe@debian.org>

apt - The Debian Advanced Package Tool

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1.3 mime-support 3.60ubuntu1

1.3.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Source: <git://anonscm.debian.org/collab-maint/mime-support.git>

Files: *

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1.4 dash 0.5.8-2.10

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1.5 debianutils 4.8.4

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1.6 diffutils 3.6-1

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GNU `sdiff' was written by Thomas Lord. GNU `cmp' was written by
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1.8 init-system-helpers 1.51

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1.9 libffi 3.2.1-8

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1.11 sensible-utils 0.0.12

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1.14 base-passwd 3.5.44

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

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1.15 coreutils 8.28-1ubuntu1

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This is the Debian GNU/Linux packaged version of the GNU core
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This package is maintained by Michael Stone <mstone@debian.org> and
built from sources obtained from:

ftp://ftp.gnu.org/gnu/coreutils/coreutils-8.24.tar.xz

This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:

- * added Debian GNU/Linux package maintenance system files
- * at times, bug fixes awaiting inclusion in the upstream source

Authors

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doc/coreutils.texi (The GNU Coreutils Manual)

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1.16 findutils 4.6.0+git+20170828-2

1.16.1 Available under license :

It was downloaded from <ftp://ftp.gnu.org/gnu/findutils>

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

Upstream Authors:

* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>.

The idea for `-print0` and `xargs -0` came from Dan Bernstein <brnstdn@kramden.acf.nyu.edu>.

Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs

was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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1.17 gzip 1.6-5ubuntu1

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1.18 lsb 9.20170808ubuntu1

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Upstream-Name: LSB implementation package

Files: *

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Files: `init-functions.d/50-ubuntu-logging`

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1.19 mawk 1.3.3-17ubuntu3

1.20 sysv-init 2.88dsf-59.10ubuntu1

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Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: <ftp.cistron.nl/pub/people/miquels/software>
92K sysvinit-2.86.tar.gz

Alternate-Site: sunsite.unc.edu/pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project. The project page is <http://alioth.debian.org/projects/pkg-sysvinit/>.

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The of the start-stop-daemon:

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
- * public domain.

1.21 zlib 1.2.11.dfsg-0ubuntu2

1.21.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Files-Excluded:

contrib/ada
contrib/amd64
contrib/asm686
contrib/blast
contrib/delphi
contrib/dotzlib
contrib/gcc_gvmat64
contrib/infbac9
contrib/inflate86
contrib/iostream
contrib/iostream2
contrib/iostream3
contrib/masmx64
contrib/masmx86

contrib/pascal
contrib/puff
contrib/testzlib
contrib/untgz
contrib/vstudio
doc/rfc*

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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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

1.22 build-essential 12.4ubuntu1

1.22.1 Available under license :

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1.23 dh-python 3.20180325ubuntu2

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1.24 lz4 0.0~r131-2ubuntu3

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Upstream-Name: lz4

Source: <https://github.com/Cyan4973/lz4>

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1.25 debconf 1.5.66ubuntu1

1.26 apparmor 2.12-4ubuntu5.1

1.26.1 Available under license :

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1.28 shadow 4.5-1ubuntu2

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1.30 mpdecimal 2.4.2-1ubuntu1

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1.31 libidn 1.33-2.1ubuntu1.2

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Upstream-Name: Libidn

Upstream-Contact: Simon Josefsson <simon@josefsson.org>

Source: <https://www.gnu.org/software/libidn/>

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1.37 keyutils 1.5.9-9.2ubuntu2

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

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```
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```

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Version 2.1, February 1999

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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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1.40 python-idna 2.6-1

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1.42 python-secretstorage 2.3.1-2

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1.43 make 4.1-9.1ubuntu1

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1.44 keyrings-alt 3.0-1

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1.45 cpp 7.4.0-1ubuntu2.3

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1.46 bash 4.4.18-2ubuntu1.2

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1.49 libassuan 2.5.1-2

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Dependent Modules

=====

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httplib2 - MIT License

1.56 libidn 2.0.4-1.1ubuntu0.2

1.56.1 Available under license :

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Version 3, 29 June 2007

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.64 python-stdlib-extensions 3.6.9-1~18.04

1.64.1 Available under license :

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Found in path(s):

```
* /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-3.7.5/3.6/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
* /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_xrange.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_xrange.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_types.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_filter.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_types.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/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_map.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_filter.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_filter.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_map.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_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_map.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_standarderror.py
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```

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Found in path(s):

```
* /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/conv.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/literals.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/pgen2/parse.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/_init_.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
bz2/python3-stdlib-extensions-3.7.5/3.6/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-3.7.5/3.7/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-3.7.5/3.6/Lib/lib2to3/pgen2/grammar.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/parse.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/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/literals.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/conv.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-
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bz2/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-tar-
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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/pgen2/grammar.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\n' % self.get_license())
```

Found in path(s):

```
* /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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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-3.7.5/3.7/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-3.7.5/3.8/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-3.7.5/3.6/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-3.7.5/3.8/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-3.7.5/3.7/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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Found in path(s):

```
* /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/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
* /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

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Found in path(s):

- * /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/pygram.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_repr.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_repr.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_execfile.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_long.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/pytree.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_exec.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/fixer_base.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_execfile.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/fixer_base.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_long.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/tests/test_pytree.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_has_key.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/refactor.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/tests/pytree_idempotency.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_apply.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_ne.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_print.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_ne.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/fixer_base.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_ne.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/patcomp.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/tests/pytree_idempotency.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_print.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/patcomp.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_long.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_exec.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/refactor.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/patcomp.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_execfile.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/refactor.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/tests/pytree_idempotency.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/tests/test_pytree.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_apply.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/pytree.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/tests/test_pytree.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/pygram.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_has_key.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_print.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_apply.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_has_key.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_repr.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/pygram.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/pytree.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_exec.py

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

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*****/

| 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-tar-
bz2/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-tar-
bz2/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-tar-
bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/PatternGrammar.txt
No license file was found, but licenses were detected in source scan.
```

```
('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),
```

Found in path(s):

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

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Found in path(s):

```
* /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/pgen2/tokenize.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/tokenize.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/tokenize.py
```

1.65 pcre 8.39-9

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.66 pinentry 1.1.0-1

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/*

* Marko Kiiskila carnil@cs.tut.fi

*

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1.70 libpsl 0.19.1-5build1

1.70.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: libpsl

Source: <https://github.com/rockdaboot/libpsl>

Files: *

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Files: src/psl-make-dafsa src/lookup_string_in_fixed_set.c

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1.71 netkit-telnet 0.17-41

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1.72 libcap 2.25-1.2

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1.74 python-cffi 1.11.5-1

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1.75 ncurses 6.1-1ubuntu1.18.04

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Files: install-sh

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1.76 iptables 1.6.1-2ubuntu2

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1.77 elfutils 0.170-0.4ubuntu0.1

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Version 2.1, February 1999

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* /opt/ws_local/PERMITS_SQL/1017917869_1591373751.5/0/libfile-fcntllock-perl-0-22-orig-tar-gz/File-FcntlLock-0.22/Inline_build/Inline.pm.in

* /opt/ws_local/PERMITS_SQL/1017917869_1591373751.5/0/libfile-fcntllock-perl-0-22-orig-tar-gz/File-FcntlLock-0.22/lib/File/FcntlLock/Errors.pm

* /opt/ws_local/PERMITS_SQL/1017917869_1591373751.5/0/libfile-fcntllock-perl-0-22-orig-tar-gz/File-FcntlLock-0.22/lib/File/FcntlLock.pm

* /opt/ws_local/PERMITS_SQL/1017917869_1591373751.5/0/libfile-fcntllock-perl-0-22-orig-tar-gz/File-FcntlLock-0.22/lib/File/FcntlLock/XS.pm

* /opt/ws_local/PERMITS_SQL/1017917869_1591373751.5/0/libfile-fcntllock-perl-0-22-orig-tar-gz/File-FcntlLock-0.22/Pure_build/Pure.tmpl

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

use File::FcntlLock;

my \$fs = new File::FcntlLock;

\$fs->l_type(F_RDLCK);

```

$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!\n";
$fs->lock( $fh, F_SETLK )
    or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
    or print "Unlocking failed: " . $fs->error . "\n";

```

=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:

```
$fs = new File::FcntlLock;
```

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

```
$fs = new File::FcntlLock( l_type => F_WRLCK,  
                           l_whence => SEEK_SET,  
                           l_start => 0,  
                           l_len   => 100 );
```

if you intend to obtain a write lock for the first 100 bytes of a file.

=back

=head2 Object properties

Once the object simulating the flock structure has been created the following methods allow to query and, in most cases, to also modify its properties.

=over 4

=item C<l_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock, write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence> property of the flock object, determining if the L<l_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK_SET>, C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>). If called with no argument the current value of the property is

returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file according to the mode selected by the L<l_whence> member. See also the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at C<l_start>, to the end of the file. E.g., a lock obtained with L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are permitted, resulting in a lock ranging from C<l_start+l_len> up to and including C<l_start-1>. But not all systems support negative values for L<l_len> and will return an error when you try to obtain such a lock, so please read the L<fcntl(2)> man page of the system carefully for details.

=item C<l_pid()>

If a call of the L<lock()> method with C<F_GETLK> indicates that another process is holding the lock (in which case the L<l_type> property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the L<l_pid()> method returns the PID of the process holding the lock. This method does not accept any arguments.

=back

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the L<lock()> method:

=over 4

=item C<lock()>

This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (B<but neither> File::FcntlLock::Pure B<nor> File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

```
$fs->lock( $fh, F_SETLK );
```

There are three values that can be used as the second argument:

=over 4

=item C<F_SETLK>

With C<F_SETLK> the L<lock()> method tries to obtain a lock (when L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for L<fcntl(2)> for more details).

=item C<F_SETLKW>

is similar to C<F_SETLK>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F_GETLK>

With C<F_GETLK> the L<lock()> method determines if and which process currently is holding the lock. If there's no other lock the L<l_type> property will be set to C<F_UNLCK>. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C<F_GETLK> will only make details of one of these processes visible, and one has no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an C<undef> return value) you can either immediately evaluate the error number (using \$!, \$ERRNO or \$OS_ERROR) or check for it via the methods discussed below at some later time.

=back

=head2 Error handling

There are minor differences between `File::FcntlLock` on the one hand and `File::FcntlLock::Pure` and `File::FcntlLock::Inline` on the other, due to the first calling the system function `L<fcntl(2)>` directly while the latter two invoke the Perl `C<fcntl>` function. Perl's `C<fcntl>` function already returns a Perl error on some types of invalid arguments. In contrast `File::FcntlLock` passes them on to the `L<fcntl(2)>` system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the `L<lock()>` method failed:

=over 4

=item `C<lock_errno()>`

Returns the `C<errno>` error number from the latest call of `L<lock()>`. If the last call did not result in an error `C<undef>` is returned.

=item `C<error()>`

Returns a short description of the error that happened during the latest call of `L<lock()>`. Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns `C<undef>`.

=item `C<system_error()>`

While the `L<error()>` method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with `C<errno>`. The method returns `C<undef>` if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item `F_GETLK` `F_SETLK` `F_SETLKW`

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a `L<fcntl(2)>` system call. Note also that under certain circumstances the `File::FcntlLock::Pure` and `File::FcntlLock::Inline` modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its `C<pack>` and `C<unpack>` functions.

=head1 CREDITS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with `L<fcntl(2)>`. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

`L<perl(1)>`, `L<fcntl(2)>`, `L<lseek(2)>`.

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```
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*
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*-----*/
```

Found in path(s):

`/opt/ws_local/PERMITS_SQL/1017917869_1591373751.5/0/libfile-fcntllock-perl-0-22-orig-tar-gz/File-FcntlLock-0.22/Pure_build/builder.c`

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File::FcntlLock

=====

File::FcntlLock is a module to do file locking in an object oriented fashion using the `fcntl(2)` system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with `flock(2)`, on which Perl's `flock()` function is based per default.

Since version 0.15 there three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the `fcntl(2)` system function. This method can also be used by employing the `File::FcntlLock::XS` module (which basically an alias for `File::FcntlLock`). Two further methods instead use calls of the Perl `fcntl()` function. In both cases at some time a C program must be run to determine the binary layout of the C `flock` struct used by `fcntl()` for locking. For the one package, `File::FcntlLock::Pure`, this is done while making the package. For the other, `File::FcntlLock::Inline`, this happens each time the package is loaded (e.g. with the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the `off_t` type, used in the `flock` struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's `pack()` and `unpack()` function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the `File::FcntlLock::Pure` and `File::FcntlLock::Inline` modules won't get installed.

PORTABILITY

To use the module the system must support the `fcntl()` system call

which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

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- * Merlin Hughes
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- * Bob Schlaermann
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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.
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1.92 e2fsprogs 1.44.1-1ubuntu1.3

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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

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

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```
#
# 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) $(LD_FLAGS_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)

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/

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Theodore Ts'o

23-June-2007

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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.

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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.

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

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

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Ty Coon, President of Vice

That's all there is to it!

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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1.93 pyasn1-modules 0.2.8

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1.94 tcpdump 4.9.3-Ubuntu0.18.04.1

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1.95 dns-python 1.16.0

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1.96 keyrings-alt 3.0

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1.97 cpp 8.4.0-1ubuntu1~18.04

1.97.1 Available under license :

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Version 3, 29 June 2007

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

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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, in one of these ways:

@enumerate a

@item

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.

@item

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.

@item

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.

@item

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.

@item

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.

@end enumerate

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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@smallexample

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@c man end

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Version 2.1, February 1999

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DRuntime: Runtime Library for the D Programming Language

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1.99 tcp-wrappers 7.6.q-27

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1.100 json-c 0.12.1-1.3ubuntu0.3

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1.101 jsonschema 2.5.1

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1.102 pygobject 3.26.1

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Version 2.1, February 1999

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1.103 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.

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes

3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes

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1.104 opentracing-instrumentation 2.4.3

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

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@enumerate 0

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

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

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

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

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

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- 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

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END OF TERMS AND CONDITIONS

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

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

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@enumerate 0

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Version 3.1, 31 March 2009

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winsup\testsuite\winsup.api\semtest.c  
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```

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```
winsup\cygserver\sysv_shm.cc
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 */
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1.110 python3-crypto 2.6.1-8ubuntu2

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Last updated: 2009-02-28

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=== EOF ===

# 1.111 python3-keyring 10.6.0-1

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## 1.112 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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Version 2.1, February 1999

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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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:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

collective works based on the Library.

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

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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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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.

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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### 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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 */
```

By plainly marking modifications, something along the lines of adding to each  
file that has been changed a "Modified by Foo Bar" line  
underneath the "Written by" line would be adequate.

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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## 1. Source Code.

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

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

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Version 2, June 1991

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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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When a "work that uses the Library" uses material from a header file

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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 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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@enumerate 0

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@enumerate a

@item

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@item

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.

@item

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.

@item

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.

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@item

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@end enumerate

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@c man end

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DRuntime: Runtime Library for the D Programming Language

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Version 2, June 1991

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@c Set file name and title for man page.

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@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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winsup\cygserver\sysv\_shm.cc

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\*\*\*\*\*

Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

## Preamble

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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.)

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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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That's all there is to it!

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
winsup\testsuite\winsup.api\msgtest.c  
winsup\testsuite\winsup.api\semtest.c  
winsup\testsuite\winsup.api\shmtest.c
```

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```
winsup\cygserver\sysv_shm.cc
```

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Version 3.1, 31 March 2009

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Written By David Vinayak Henkel-Wallace, June 1992

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

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Version 2, June 1991

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

<http://tukaani.org/xz/lists.html>

Source:

<http://tukaani.org/xz>

<http://git.tukaani.org/xz.git>

Comment:

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To: Jonathan Nieder <[jrnieder@gmail.com](mailto: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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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

License: config-h

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Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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## 1.120 base-files 10.1ubuntu2.10

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

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By making a contribution to this project, I certify that:

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=== EOF ===

1.127 setuptools-scm 3.4.3

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1.128 jaeger-client 3.8.0

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/setup.py

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Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_metrics.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/span_context.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/crossdock/server/endtoend.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_local_agent_net.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_codecs.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/local_agent_net.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_sampler.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/reporter.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_config.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/conftest.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/tracer.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_reporter.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/crossdock/server/constants.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/__init__.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/metrics.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_api.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/thrift.py

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-

3.8.0/tests/test_tracer.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_crossdock.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_noop_tracer.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/constants.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/sampler.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/TUDPTTransport.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_rate_limiter.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/crossdock/server/server.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/span.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_span.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/crossdock/server/serializer.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/crossdock/server/thriftw_serializer.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_tracer_benchmark.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_thrift.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/crossdock/server/__init__.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/__init__.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/codecs.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_span_context.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/rate_limiter.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/ioloop_util.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_TUDPTTransport.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/tests/test_utils.py
 * /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client/utils.py

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How to Contribute to Jaeger

We'd love your help!

Jaeger is [Apache 2.0 licensed](LICENSE) and accepts contributions via GitHub pull requests. This document outlines some of the conventions on development workflow, commit message formatting, contact points and other resources to make it easier to get your contribution accepted.

We gratefully welcome improvements to documentation as well as to code.

Developing

Jaeger Python client currently only supports Python 2.7.

This repository uses [virtualenv](https://pypi.python.org/pypi/virtualenv) and `pip` to manage dependencies. To install all dependencies, run:

1. `virtualenv env`
2. `source env/bin/activate`
3. `make bootstrap`
4. `make test`

pycurl

On MacOS you may get an error:

```
...
ImportError: pycurl: libcurl link-time ssl backend (openssl) is different from compile-time ssl backend (none/other)
...
```

It can be fixed with:

```
...
pip uninstall pycurl
pip install --install-option="--with-openssl" --install-option="--openssl-dir=/usr/local/opt/openssl" pycurl
...
```

Making A Change

Before making any significant changes, please [open an issue](https://github.com/jaegertracing/jaeger-client-python/issues).

Discussing your proposed changes ahead of time will make the contribution process smooth for everyone.

Once we've discussed your changes and you've got your code ready, make sure that tests are passing (`make test`) and open your pull request.

Your pull request is most likely to be accepted if it:

- * Includes tests for new functionality.

- * Has a [good commit message](http://tbagery.com/2008/04/19/a-note-about-git-commit-messages.html).
- * Each commit is signed by the author ([see below](#sign-your-work)).

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If you are adding a new file it should have a header like below.

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#

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Sign your work

The sign-off is a simple line at the end of the explanation for the patch, which certifies that you wrote it or otherwise have the right to pass it on as an open-source patch. The rules are pretty simple: if you can certify the below (from developercertificate.org):

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Version 1.1

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then you just add a line to every git commit message:

Signed-off-by: Joe Smith <joe@gmail.com>

using your real name (sorry, no pseudonyms or anonymous contributions.)

You can add the sign off when creating the git commit via `git commit -s`.

If you want this to be automatic you can set up some aliases:

```
git config --add alias.amend "commit -s --amend"
```

```
git config --add alias.c "commit -s"
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/CONTRIBUTING.md

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/jaeger_client.egg-info/PKG-INFO

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/PKG-INFO

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update-license:

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1090636630_1600331441.29/0/jaeger-client-3-8-0-tar-gz/jaeger-client-3.8.0/Makefile

1.129 pymongo 3.10.1

1.129.1 Available under license :

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mongodb-dev@googlegroups.com

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1) License Notice for time64.c

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2) License Notice for bson-stdint-win32.h

ISO C9x compliant stdint.h for Microsoft Visual Studio

Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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1.130 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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1.135 toml 0.9.2

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Version 3, 29 June 2007

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1.138 pycrypto 2.6.1

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Last updated: 2009-02-28

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=== EOF ===

## 1.139 telnet 0.17-41

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## 1.140 ip-address 1.0.17

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# 1.141 idna 2.7

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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/1110765725\_1606850597.72/0/kjd-idna-v2-7-0-g5d76cb6-1-tar-gz/kjd-idna-77c8bce/setup.py

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# 1.142 libgeoip 1.6.12-1

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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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 libcrypto

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D3DES (V5.09) -

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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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@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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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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Files-Excluded: doc/doxyout

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

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

Files-Excluded: doc/doxyout

lib/wind/rfc3490.txt

lib/wind/rfc3491.txt

lib/wind/rfc4013.txt

lib/wind/rfc4518.txt

Files: \*

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@end macro
```

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@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
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@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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GSS-API mechlglue layer.

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AES in libcrypto

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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 libcrypto

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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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Upstream-Contact: heimdal@h5l.org

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

Files-Excluded: doc/doxyout

lib/wind/rfc3490.txt

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Files: \*

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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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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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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Files-Excluded: doc/doxyout

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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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Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

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

Files-Excluded: doc/doxyout

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GSS-API mechlue layer.

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@table @asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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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 libcrypto

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D3DES (V5.09) -

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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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@comment node-name, next, previous, up

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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 libcrypto

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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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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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Upstream-Contact: heimdal@h5l.org

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libedit

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Tom's fast math (bignum support) and LibTomMath

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@heading Doug Rabson

GSS-API mechg glue layer.

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@heading PADL Software Pty Ltd

@table @asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

@end table

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Fortuna in libhcrypto

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Camellia in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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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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kdc/announce.c

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@heading Richard Outerbridge

DES core in libcrypto

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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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@heading Novell, Inc

lib/hcrypto/test\_dh.c

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## 1.156 python3-asn1crypto 0.24.0

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## 1.157 appdirs 1.4.3

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- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test\_debug.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test\_encoder.py
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- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/test\_decoder.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_namedtype.py
- \* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/test\_encoder.py

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Metadata-Version: 1.2  
Name: pyasn1  
Version: 0.4.8  
Summary: ASN.1 types and codecs  
Home-page: <https://github.com/etingof/pyasn1>  
Author: Ilya Etingof  
Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)  
Maintainer: Ilya Etingof <[etingof@gmail.com](mailto:etingof@gmail.com)>  
License: BSD  
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)  
Platform: any  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Environment :: Console  
Classifier: Intended Audience :: Developers  
Classifier: Intended Audience :: Education  
Classifier: Intended Audience :: Information Technology  
Classifier: Intended Audience :: System Administrators  
Classifier: Intended Audience :: Telecommunications Industry  
Classifier: License :: OSI Approved :: BSD License  
Classifier: Natural Language :: English  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.4  
Classifier: Programming Language :: Python :: 2.5  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.2  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
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ASN.1 library for Python

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[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)  
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.  
[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)  
by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
    id      INTEGER,
    room    [0] INTEGER OPTIONAL,
    house   [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        )
    )
```
```

```

    )
),
DefaultedNamedType(
    'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
    )
)
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123

```

```

room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,  
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or  
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)  
or try browsing pyasn1  
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python

=====

.. toctree::  
:maxdepth: 1

Abstract Syntax Notation One (ASN.1  
<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1)>) is a  
technology for exchanging structured data in a universally understood,  
hardware agnostic way. Many industrial, security and telephony  
applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.org/project/pyasn1/>> library implements  
ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architecture differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)



- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

## ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

-----

```
.. toctree::
    :maxdepth: 2
```

/pyasn1/contents

## Use case

-----

```
.. toctree::
    :maxdepth: 2
```

/example-use-case

## Download & Install

-----

```
.. toctree::
    :maxdepth: 2
```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you

could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::  
    :maxdepth: 1
```

/changelog

License

-----

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
    :maxdepth: 2
```

/license

Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>` \_  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>` \_ at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>` \_  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>` \_  
mailing list archive.

Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>` \_ by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>` \_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>` \_

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>` \_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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\* /opt/cola/permits/1110905341\_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/LICENSE.rst

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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 < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
```



```

'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: 3.7',
    'Programming Language :: Python :: 3.8',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
    main()

```

Found in path(s):

\* /opt/cola/permits/1110905341\_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

# 1.161 packaging 17.1

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## 1.162 pyparsing 2.2.0

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# 1.167 python-json-logger 0.1.5

## 1.167.1 Available under license :

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

Metadata-Version: 1.1

Name: python-json-logger

Version: 0.1.5

Summary: A python library adding a json log formatter

Home-page: <http://github.com/madzak/python-json-logger>

Author: Zakaria Zajac

Author-email: [zak@madzak.com](mailto:zak@madzak.com)

License: BSD

Description: UNKNOWN

Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.1

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Topic :: System :: Logging

Found in path(s):

\* /opt/cola/permits/1112217838\_1607050024.56/0/python-json-logger-0-1-5-1-tar-gz/python-json-logger-0.1.5/src/python\_json\_logger.egg-info/PKG-INFO

\* /opt/cola/permits/1112217838\_1607050024.56/0/python-json-logger-0-1-5-1-tar-gz/python-json-logger-0.1.5/PKG-INFO

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

```
import sys
from setuptools import setup, find_packages

if sys.version_info < (2, 6):
    print(sys.stderr, "{}: need Python 2.6 or later.".format(sys.argv[0]))
    print(sys.stderr, "Your Python is {}".format(sys.version))
    sys.exit(1)

setup(
    name="python-json-logger",
    version="0.1.5",
    url="http://github.com/madzak/python-json-logger",
    license="BSD",
    description="A python library adding a json log formatter",
    author="Zakaria Zajac",
    author_email="zak@madzak.com",
    package_dir={"": "src"},
    packages=find_packages("src", exclude="tests"),
    test_suite="tests.tests",
    install_requires=['setuptools'],
    classifiers=[
        'Development Status :: 3 - Alpha',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.1',
        'Programming Language :: Python :: 3.2',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Topic :: System :: Logging',
    ]
)

Found in path(s):
* /opt/cola/permits/1112217838_1607050024.56/0/python-json-logger-0-1-5-1-tar-gz/python-json-logger-0.1.5/setup.py
```

# 1.168 influxdb 3.0.0

## 1.168.1 Available under license :

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# 1.169 pykube 0.15.0

## 1.169.1 Available under license :

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Metadata-Version: 1.1

Name: pykube

Version: 0.15.0

Summary: Python client library for Kubernetes

Home-page: <https://github.com/kelproject/pykube>

Author: Eldarion, Inc.

Author-email: [development@eldarion.com](mailto:development@eldarion.com)

License: Apache

Description: pykube

=====

.. image:: <http://slack.kelproject.com/badge.svg>  
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.. image:: <https://img.shields.io/travis/kelproject/pykube.svg>  
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:target: <https://pypi.python.org/pypi/pykube/>

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## Python client library for Kubernetes

.. image:: [https://storage.googleapis.com/kel-assets/kel\\_full-02\\_200.jpg](https://storage.googleapis.com/kel-assets/kel_full-02_200.jpg)  
:target: <http://kelproject.com/>

Kel is an open source Platform as a Service (PaaS) from Eldarion, Inc. that makes it easy to manage web application deployment and hosting through the entire lifecycle from development through testing to production. It adds components and tools on top of Kubernetes that help developers manage their application infrastructure. Kel builds on Eldarion's 7+ years experience running one of the leading Python and Django PaaSes.

For more information about Kel, see [`kelproject.com`](http://kelproject.com), follow us on Twitter [`@projectkel`](https://twitter.com/projectkel), and join our [`Slack team`](http://slack.kelproject.com).

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## Features

-----

- \* HTTP interface using requests using kubeconfig for authentication
- \* Python native querying of Kubernetes API objects

## Installation

-----

To install pykube, use pip::

```
pip install pykube
```

## Usage

-----

Query for all ready pods in a custom namespace:

```
.. code:: python
```



```
import operator
import pykube

api = pykube.HTTPClient(pykube.KubeConfig.from_file("/Users/<username>/kube/config"))
pods = pykube.Pod.objects(api).filter(namespace="gondor-system")
ready_pods = filter(operator.attrgetter("ready"), pods)
```

Selector query:

.. code:: python

```
pods = pykube.Pod.objects(api).filter(
    namespace="gondor-system",
    selector={"gondor.io/name__in": {"api-web", "api-worker"}},
)
pending_pods = pykube.objects.Pod.objects(api).filter(
    field_selector={"status.phase": "Pending"}
)
```

Watch query:

.. code:: python

```
watch = pykube.Job.objects(
    api,
    namespace="gondor-system")
.filter(field_selector={"metadata.name": "my-job"})
.watch()

# watch is a generator:
for watch_event in watch:
    print(watch.type) # 'ADDED', 'DELETED', 'MODIFIED'
    print(watch.object) # pykube.Job object
```

Create a ReplicationController:

.. code:: python

```
obj = {
    "apiVersion": "v1",
    "kind": "ReplicationController",
    "metadata": {
        "name": "my-rc",
        "namespace": "gondor-system"
    },
    "spec": {
        "replicas": 3,
        "selector": {
```

```

        "app": "nginx"
    },
    "template": {
        "metadata": {
            "labels": {
                "app": "nginx"
            }
        },
        "spec": {
            "containers": [
                {
                    "name": "nginx",
                    "image": "nginx",
                    "ports": [
                        {"containerPort": 80}
                    ]
                }
            ]
        }
    }
}
pykube.ReplicationController(api, obj).create()

```

Delete a ReplicationController:

.. code:: python

```

obj = {
    "apiVersion": "v1",
    "kind": "ReplicationController",
    "metadata": {
        "name": "my-rc",
        "namespace": "gondor-system"
    }
}
pykube.ReplicationController(api, obj).delete()

```

Check server version:

.. code:: python

```

api = pykube.HTTPClient(pykube.KubeConfig.from_file("/Users/<username>/kube/config"))
api.version

```

Requirements

-----

- \* Python 2.7 or 3.3+
- \* requests (included in ``install\_requires``)
- \* PyYAML (included in ``install\_requires``)

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-----

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-----

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-----

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Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

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\* /opt/cola/permits/1112217860\_1607050221.91/0/pykube-0-15-0-1-tar-gz/pykube-0.15.0/PKG-INFO

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# 1.170 uvloop 0.7.0

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## 1.171 python-etcd 0.4.5

### 1.171.1 Available under license :

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Metadata-Version: 1.1

Name: python-etcd

Version: 0.4.5

Summary: A python client for etcd

Home-page: <http://github.com/jplana/python-etcd>

Author: Jose Plana

Author-email: [jplana@gmail.com](mailto:jplana@gmail.com)

License: MIT

Description: python-etcd documentation

=====

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



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

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

```
.. image:: https://coveralls.io/repos/jplana/python-etcd/badge.svg?branch=master&service=github
:target: https://coveralls.io/github/jplana/python-etcd?branch=master
```

## Installation

-----

## Pre-requirements

~~~~~

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

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

From source

~~~~~

```
.. code:: bash
```

```
$ python setup.py install
```

## Usage

-----

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

## Create a client object

~~~~~

```
.. code:: python
```

```
import etcd
```

```
client = etcd.Client() # this will create a client against etcd server running on localhost on port 4001
```

```
client = etcd.Client(port=4002)
```

```
client = etcd.Client(host='127.0.0.1', port=4003)
```

```
client = etcd.Client(host=('127.0.0.1', 4001), ('127.0.0.1', 4002), ('127.0.0.1', 4003)))
```

```
client = etcd.Client(host='127.0.0.1', port=4003, allow_redirect=False) # wont let you run sensitive
commands on non-leader machines, default is true
```

```
# If you have defined a SRV record for _etcd._tcp.example.com pointing to the clients
client = etcd.Client(srv_domain='example.com', protocol="https")
# create a client against https://api.example.com:443/etcd
client = etcd.Client(host='api.example.com', protocol='https', port=443, version_prefix='/etcd')
```

Write a key

~~~~~

.. code:: python

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

Read a key

~~~~~

.. code:: python

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

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

Delete a key

~~~~~

.. code:: python

```
client.delete('/nodes/n1')
```

Atomic Compare and Swap

~~~~~

.. code:: python

```
client.write('/nodes/n2', 2, prevValue = 4) # will set /nodes/n2 's value to 2 only if its previous value was 4
and
client.write('/nodes/n2', 2, prevExist = False) # will set /nodes/n2 's value to 2 only if the key did not exist
before
```

client.write('/nodes/n2', 2, prevIndex = 30) # will set /nodes/n2 's value to 2 only if the key was last modified at index 30

client.test_and_set('/nodes/n2', 2, 4) #equivalent to client.write('/nodes/n2', 2, prevValue = 4)

You can also atomically update a result:

.. code:: python

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

Watch a key

~~~~~

.. code:: python

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

Refreshing key TTL

~~~~~

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

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

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

.. code:: python

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

Locking module

~~~~~

.. code:: python

```
# Initialize the lock object:
# NOTE: this does not acquire a lock yet
client = etcd.Client()
```

```
# Or you can custom lock prefix, default is '/_locks/' if you are using HEAD
client = etcd.Client(lock_prefix='/my_etcd_root/_locks')
lock = etcd.Lock(client, 'my_lock_name')

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

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

Get machines in the cluster

~~~~~

```
.. code:: python
```

```
client.machines
```

Get leader of the cluster

~~~~~

```
.. code:: python
```

```
client.leader
```

Generate a sequential key in a directory

~~~~~

```
.. code:: python
```

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

List contents of a directory

~~~~~

```
.. code:: python
```

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

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

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

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

## Development setup

-----

To create a buildout,

```
.. code:: bash
```

```
$ python bootstrap.py
$ bin/buildout
```

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

```
.. code:: bash
```

```
$ bin/test
```

to generate documentation,

```
.. code:: bash
```

```
$ cd docs
$ make
```

## Release HOWTO

-----

To make a release

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

## News

=====

### 0.4.5

-----

\*Release date: 3-Mar-2017\*

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

### 0.4.4

-----

\*Release date: 10-Jan-2017\*

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

### 0.4.3

-----

\*Release date: 14-Dec-2015\*

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

### 0.4.2

-----

\*Release date: 8-Oct-2015\*

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

#### 0.4.1

-----

\*Release date: 1-Aug-2015\*

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

#### 0.3.3

-----

\*Release date: 12-Apr-2015\*

- \* Forward leaves\_only value in get\_subtree() recursive calls
- \* Fix README prevExists->prevExist
- \* Added configurable version\_prefix
- \* Added support for recursive watch
- \* Better error handling support (more detailed exceptions)
- \* Fixed some unreliable tests

#### 0.3.2

-----

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

\* Fixed generated documentation version.

### 0.3.1

-----

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

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

### 0.3.0

-----

\*Release date: 18-Jan-2014\*

- \* API v2 support
- \* Python 3.3 compatibility

### 0.2.1

-----

\*Release data: 30-Nov-2013\*

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

### 0.2.0

-----



\*Release date: 30-Sep-2013\*

\* Allow fetching of multiple keys (sub-nodes)

0.1

---

\*Release date: 18-Sep-2013\*

\* Initial release

Keywords: etcd raft distributed log api client

Platform: UNKNOWN

Classifier: Topic :: System :: Distributed Computing

Classifier: Topic :: Software Development :: Libraries

Classifier: License :: OSI Approved :: MIT License

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Database :: Front-Ends

Found in path(s):

\* /opt/cola/permits/1112217808\_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-

0.4.5/src/python\_etcd.egg-info/PKG-INFO

\* /opt/cola/permits/1112217808\_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/PKG-INFO

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

```
from setuptools import setup, find_packages
```

```
import sys, os
```

```
here = os.path.abspath(os.path.dirname(__file__))
```

```
README = open(os.path.join(here, 'README.rst')).read()
```

```
NEWS = open(os.path.join(here, 'NEWS.txt')).read()
```

```
version = '0.4.5'
```

```
install_requires = [
```

```
    'urllib3>=1.7.1',
```

```
    'dnspython>=1.13.0'
```

```
]
```

```
test_requires = [
```

```
    'mock',
```

```
    'nose',
```

```
    'pyOpenSSL>=0.14'
```

```
]
```

```

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

```

Found in path(s):

\* /opt/cola/permits/1112217808\_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/setup.py

# 1.172 monotonic 1.1

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# 1.174 aiohttp-swagger 1.0.4

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Project home: <https://github.com/cr0hn/aiohttp-swagger>

Project contact: [cr0hn\[at\]cr0hn.com](mailto:cr0hn[at]cr0hn.com)

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# 1.176 multidict 4.7.6

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# 1.177 python3-secretstorage 2.3.1-2

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# 1.178 libgirepository 1.56.1-1

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# 1.181 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](mailto: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/>>`\_.

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:

.. code-block:: pycon

```
# 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.

.. code-block:: pycon

```
# 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.codec`` module:

.. code-block:: pycon

```
# Python 2
>>> import idna.codec
>>> 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:

.. code-block:: pycon

```
# 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.IDNError` 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
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Topic :: Internet :: Name Service (DNS)

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Utilities

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\* /opt/cola/permits/1114240575\_1607457212.69/0/python-idna-2-6-orig-1-tar-gz/idna-2.6/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

# 1.182 libstdc-7-dev 7.5.0-3ubuntu1~18.04

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Version 2, June 1991

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Version 2, June 1991

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

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

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

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

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

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## 1.184 python-six 1.11.0-2

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# 1.188 python-pkg-resources 39.0.1-2

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## 1.197 distlib 0.2.6

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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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| Release | Derived | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

| from           |           | compatible? (1) |            |         |
|----------------|-----------|-----------------|------------|---------|
| 0.9.0 thru 1.2 |           | 1991-1995       | CWI        | yes     |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999       | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000            | CNRI       | no      |
| 2.0            | 1.6       | 2000            | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001            | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001            | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001            | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001            | PSF        | yes     |
| 2.2            | 2.1.1     | 2001            | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002            | PSF        | yes     |
| 2.1.3          | 2.1.2     | 2002            | PSF        | yes     |
| 2.2.1          | 2.2       | 2002            | PSF        | yes     |
| 2.2.2          | 2.2.1     | 2002            | PSF        | yes     |
| 2.2.3          | 2.2.2     | 2003            | PSF        | yes     |
| 2.3            | 2.2.2     | 2002-2003       | PSF        | yes     |
| 2.3.1          | 2.3       | 2002-2003       | PSF        | yes     |
| 2.3.2          | 2.3.1     | 2002-2003       | PSF        | yes     |
| 2.3.3          | 2.3.2     | 2002-2003       | PSF        | yes     |
| 2.3.4          | 2.3.3     | 2004            | PSF        | yes     |
| 2.3.5          | 2.3.4     | 2005            | PSF        | yes     |
| 2.4            | 2.3       | 2004            | PSF        | yes     |
| 2.4.1          | 2.4       | 2005            | PSF        | yes     |
| 2.4.2          | 2.4.1     | 2005            | PSF        | yes     |
| 2.4.3          | 2.4.2     | 2006            | PSF        | yes     |
| 2.4.4          | 2.4.3     | 2006            | PSF        | yes     |
| 2.5            | 2.4       | 2006            | PSF        | yes     |
| 2.5.1          | 2.5       | 2007            | PSF        | yes     |
| 2.5.2          | 2.5.1     | 2008            | PSF        | yes     |
| 2.5.3          | 2.5.2     | 2008            | PSF        | yes     |
| 2.6            | 2.5       | 2008            | PSF        | yes     |
| 2.6.1          | 2.6       | 2008            | PSF        | yes     |
| 2.6.2          | 2.6.1     | 2009            | PSF        | yes     |
| 2.6.3          | 2.6.2     | 2009            | PSF        | yes     |
| 2.6.4          | 2.6.3     | 2009            | PSF        | yes     |
| 2.6.5          | 2.6.4     | 2010            | PSF        | yes     |
| 3.0            | 2.6       | 2008            | PSF        | yes     |
| 3.0.1          | 3.0       | 2009            | PSF        | yes     |
| 3.1            | 3.0.1     | 2009            | PSF        | yes     |
| 3.1.1          | 3.1       | 2009            | PSF        | yes     |
| 3.1.2          | 3.1       | 2010            | PSF        | yes     |
| 3.2            | 3.1       | 2010            | PSF        | yes     |

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=====  
Distutils2 Contributors  
=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
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- Godefroid Chapelle
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# 1.198 html5lib 0.999999999

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# 1.199 lockfile 0.12.2

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# 1.200 progress 1.2

## 1.200.1 Available under license :

```
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```

# 1.201 webencodings 0.5

## 1.201.1 Available under license :

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```
from setuptools import setup, find_packages
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',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 3',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)

```

Found in path(s):

\* /opt/cola/permits/1121503976\_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/setup.py

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

Metadata-Version: 1.1

Name: webencodings

Version: 0.5

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Simon Sapin

Author-email: [simon.sapin@exyr.org](mailto:simon.sapin@exyr.org)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard

<<http://encoding.spec.whatwg.org/>>`\_.

\* Latest documentation: <http://packages.python.org/webencodings/>

\* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

\* PyPI releases: <http://pypi.python.org/pypi/webencodings>

\* License: BSD

\* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``,

tools need to use a particular set of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually

aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence

over any other encoding declaration.

The Encoding standard defines all such details so that implementations do

not have to reverse-engineer each other.

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

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

\* /opt/cola/permits/1121503976\_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/PKG-INFO

\* /opt/cola/permits/1121503976\_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings.egg-info/PKG-INFO

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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 Python's.

Found in path(s):

\* /opt/cola/permits/1121503976\_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/README.rst

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""""

webencodings.mklables

~~~~~

Regenerate the webencodings.labels module.

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"""

import json

try:

from urllib import urlopen

except ImportError:

from urllib.request import urlopen

def assert_lower(string):

assert string == string.lower()

return string

def generate(url):

parts = ["\

"""

webencodings.labels

~~~~~

Map encoding labels to their name.

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"""

# XXX Do not edit!

# This file is automatically generated by mklables.py

LABELS = {

"""

labels = [

(repr(assert\_lower(label)).lstrip('u'),

repr(encoding['name']).lstrip('u'))

for category in json.loads(urlopen(url).read().decode('ascii'))

for encoding in category['encodings']

for label in encoding['labels']]

```

max_len = max(len(label) for label, name in labels)
parts.extend(
    ' %s:%s %s,%n' % (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
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Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings/labels.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings/__init__.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings/tests.py
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings/x_user_defined.py

```

# 1.202 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

## 1.202.1 Available under license :

```

/* CMU libsasl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
/*
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```

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- \*/

## 1.203 unzip 6.0-21ubuntu1.1

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---

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-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):

Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

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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(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* Portions copyright 1995 Jim Luther
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*
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```

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- \*
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- \*
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- \* MacBinary III spec.
- \* -----
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- \* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit
- \* homepage of Leonard Rosenthol leonardr@netcom.com)

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-----

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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."

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

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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\* from Steve P. Miller.

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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 others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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# 1.204 python 3.6.9

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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.

| Release        | Derived<br>from | Year      | Owner      | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|------------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI        | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |
| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no                      |
| 2.0.1          | 2.0+1.6.1       | 2001      | PSF        | yes                     |
| 2.1.1          | 2.1+2.0.1       | 2001      | PSF        | yes                     |
| 2.1.2          | 2.1.1           | 2002      | PSF        | yes                     |
| 2.1.3          | 2.1.2           | 2002      | PSF        | yes                     |
| 2.2 and above  | 2.1.1           | 2001-now  | PSF        | yes                     |

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# 1.206 pyxdg 0.25

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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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(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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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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threshold for this to be true is not precisely defined by law.

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

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

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That's all there is to it!

# 1.207 cert-validator 1.5.5

## 1.207.1 Available under license :

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

Metadata-Version: 2.0

Name: cert-validator

Version: 1.5.5

Summary: Certificate Validation Service (1.5.5)

Home-page: UNKNOWN

Author: UNKNOWN

Author-email: UNKNOWN

License: UNKNOWN

Platform: UNKNOWN

Requires-Dist: asn1crypto

Requires-Dist: certvalidator

Requires-Dist: oscrypto

Requires-Dist: pyOpenSSL

### # Installation

+ Works with: python 2 and 3 both

+ This is python certificate validator

+ Usage:

```
from cert_validator import CertValidator
```

```
cert_val_obj = CertValidator(<hostname>, <host_port>, revocation_mode,  
                             logger_handle, proxies=<dict>)
```

```
if cert_val_obj.connect():  
    if cert_val_obj.validate():  
        print("validation succesfull")  
    else:  
        print("validation failed !!!")  
else:  
    print("cannot connect to host")
```

+ Default values: host\_port : 443 Integer

revocation\_mode: "require" str # certificate must have crl or ocsp in it

- available values: "soft-fail", "hard-fail", "require"

logger\_handle = <None> logger\_object

proxies = <None>, pass dictionary of proxies as

```
{ "https" : <https_proxy_url>,  
  "http"  : <http_proxy_url>  
}
```

+ Exception handelling: socket error for connection

Found in path(s):

\* /opt/cola/permits/1124962236\_1611254838.76/0/cert-validator-1-5-5-dist-info-  
zip/licenseservice\_extracted/cert\_validator-1.5.5-py3-none-any.whl\_extracted/cert\_validator-1.5.5.dist-  
info/METADATA

## 1.208 certvalidator 0.11.1

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## 1.209 iconv 2.27

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Version 3, 29 June 2007

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## 1.211 selinux 2.7-2build2

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# 1.212 traceroute 2.1.0-2

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Version 2.1, February 1999

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## 1.213 pyxdg 0.25-4ubuntu1.1

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# 1.215 audit 2.8.2-1ubuntu1.1

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jloup@gzip.org      madler@alumni.caltech.edu

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Castro, Felipe  
Cho, Seong-ho  
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# 1.218 libalgorithm-merge-perl 0.08-3

## 1.218.1 Available under license :

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### NAME

Algorithm::Merge - Three-way merge and diff

### SYNOPSIS

```
use Algorithm::Merge qw(merge diff3 traverse_sequences3);
```

```
@merged = merge(\@ancestor, \@a, \@b, {  
    CONFLICT => sub { }  
});
```

```
@merged = merge(\@ancestor, \@a, \@b, {  
    CONFLICT => sub { }  
}, $key_generation_function);
```

```
$merged = merge(\@ancestor, \@a, \@b, {  
    CONFLICT => sub { }  
});
```

```
$merged = merge(\@ancestor, \@a, \@b, {
```

```

        CONFLICT => sub { }
    }, $key_generation_function);

@diff = diff3(\@ancestor, \@a, \@b);

@diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff = diff3(\@ancestor, \@a, \@b);

$diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

```

## USAGE

This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse\_sequences3" is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

### diff3

Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k
```

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

```
c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged
```

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge

Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{<!-- ----- START CONFLICT ----- -->},
```

```
(@left),  
q{<!-- ----- -->},  
(@right),  
q{<!-- ----- END CONFLICT ----- -->},
```

### traverse\_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

#### NO\_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

#### A\_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

#### B\_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the

other two sequences, but the other two sequences have corresponding elements.

#### C\_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

#### CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

#### BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <[jsmith@cpan.org](mailto:jsmith@cpan.org)> or report it on <<http://rt.cpan.org/>>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse\_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse\_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

#### SEE ALSO

Algorithm::Diff.

#### AUTHOR

James G. Smith, <[jsmith@cpan.org](mailto:jsmith@cpan.org)>

#### COPYRIGHT

Copyright (C) 2003, 2007 Texas A&M University. All Rights Reserved.



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Found in path(s):

\* /opt/cola/permits/1136205593\_1613708306.69/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/README

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

```
#
# For testing:
#
sub main::diag {
    warn join("", @_), "\n";
}

print join(" ", merge(
    #print Data::Dumper -> Dump([
    # merge(
    #   #[qw(a b c d   h i j)], # ancestor
    #   #[qw(a b c d f h i j)], # left
    #   #[qw(a b c e g   )], # right
    #   [qw(0 1 2 3 4 7 9 b)],
    #   [qw(0 6   8 a b)],
    #   [qw(0 1 2 3 5 8 a b)],
    ##
    {
        CONFLICT => sub ($$) { (
            q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>}
        ) },
    },
    )), "\n";
#)]), "\n";
#print join(" ", @{
#   [qw(0 1 @ < 3 | # > 6)]
#   }), "\n";

1;
__END__

1;

__END__

=head1 NAME
```

Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS

```
use Algorithm::Merge qw(merge diff3 traverse_sequences3);
```

```
@merged = merge(\@ancestor, \@a, \@b, {  
    CONFLICT => sub { }  
});
```

```
@merged = merge(\@ancestor, \@a, \@b, {  
    CONFLICT => sub { }  
}, $key_generation_function);
```

```
$merged = merge(\@ancestor, \@a, \@b, {  
    CONFLICT => sub { }  
});
```

```
$merged = merge(\@ancestor, \@a, \@b, {  
    CONFLICT => sub { }  
}, $key_generation_function);
```

```
@diff = diff3(\@ancestor, \@a, \@b);
```

```
@diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);
```

```
$diff = diff3(\@ancestor, \@a, \@b);
```

```
$diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);
```

```
@trav = traverse_sequences3(\@ancestor, \@a, \@b, {  
    # callbacks  
});
```

```
@trav = traverse_sequences3(\@ancestor, \@a, \@b, {  
    # callbacks  
}, $key_generation_function);
```

```
$trav = traverse_sequences3(\@ancestor, \@a, \@b, {  
    # callbacks  
});
```

```
$trav = traverse_sequences3(\@ancestor, \@a, \@b, {  
    # callbacks  
}, $key_generation_function);
```

=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by

providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse\_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff|Algorithm::Diff>. See L<Algorithm::Diff> for more information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
original: a b c e f h i k
left:    a b d e f g i j k
right:   a b c d e h i j k

merge: a b d e g i j k
```

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

c - conflict (no two are the same)  
l - left is different  
o - original is different

r - right is different

u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```
q{<!-- ----- START CONFLICT ----- -->},
(@left),
q{<!-- ----- -->},
(@right),
q{<!-- ----- END CONFLICT ----- -->},
```

=head2 traverse\_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO\_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A\_DIFF

This is called if the first sequence is different than the other two sequences at the current position.

This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B\_DIFF

This is called if the second sequence is different than the other two sequences at the current position.

This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C\_DIFF

This is called if the third sequence is different than the other two sequences at the current position.

This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <[jsmith@cpan.org](mailto:jsmith@cpan.org)> or report it on <<http://rt.cpan.org/>>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>'s implementation of C<traverse\_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse\_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <[jsmith@cpan.org](mailto:jsmith@cpan.org)>

=head1 COPYRIGHT

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Found in path(s):

\* /opt/cola/permits/1136205593\_1613708306.69/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm

## 1.219 libalgorithm-diff-perl 1.19.03-1

### 1.219.1 Available under license :

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---

abstract: unknown  
author:  
- unknown  
build\_requires:  
ExtUtils::MakeMaker: '0'  
configure\_requires:  
ExtUtils::MakeMaker: '0'  
dynamic\_config: 1  
generated\_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'  
license: unknown  
meta-spec:  
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>  
version: '1.4'  
name: Algorithm-Diff  
no\_index:  
directory:  
- t  
- inc  
requires: {}  
version: '1.1903'

Found in path(s):

\* /opt/cola/permits/1136205540\_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml

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```
#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;
```

```

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
  -c will do a context diff with 3 lines of context
  -C will do a context diff with 'lines' lines of context
  -u will do a unified diff with 3 lines of context
  -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts("U:C:cu") or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
  $opt_c = ""; # -c on if -C given on command line
  $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
  $opt_u = ""; # -u on if -U given on command line
  $opt_c = undef;
} else {
  $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
  $Context_Lines = defined $opt_C ? $opt_C : 3;
  $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
  $Context_Lines = defined $opt_U ? $opt_U : 3;
  $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

```



```

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;

    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(\@f1, \@f2);
    }

} continue {
    $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
    package Hunk;

    sub new {
        # Arg1 is output from &LCS::diff (which corresponds to one Block)
        # Arg2 is the number of items (lines, e.g.,) of context around each block
        #
        # This subroutine changes $File_Length_Difference
        #
        # Fields in a Hunk:
        # blocks    - a list of Block objects

```

```

# start      - index in file 1 where first block of the hunk starts
# end        - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#              until but NOT including this one
# after_diff  - difference due to all hunks including this one
my ($class, $piece, $context_items) = @_;

my $block = new Block ($piece); # this modifies $FLD!

my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->{"length_diff"};
$File_Length_Difference += $block->{"length_diff"};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0] -> {"item_no"} : -1;
$a2 = @remove_array ? $remove_array[-1] -> {"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0] -> {"item_no"} : -1;
$b2 = @insert_array ? $insert_array[-1] -> {"item_no"} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1   = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2   = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1"   => $end1,
    "end2"   => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
}

```

```

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ?
        $#f1 - $end1 :
        $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
        $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
}

```

```

    else { die "unknown diff" }
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_ ;
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@\n";

    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*--- don't take
    # removed items into account.
    my $low = $hunk->{"start1"};
    my $hi = $hunk->{"end1"};
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map { s/^/ / } @outlist; # assume it's just context

    foreach my $block (@{ $hunk->{"blocks"} }) {
        foreach my $item ($block->remove) {
            my $op = $item->{"sign"}; # -
            my $offset = $item->{"item_no"} - $low + $num_added;
            $outlist[$offset] =~ s/^/$op/;
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->{"sign"}; # +
            my $i = $item->{"item_no"};
            my $offset = $i - $hunk->{"start2"} + $num_removed;
            splice(@outlist,$offset,0,"$op$$fileref2[$i]");
            $num_added++;
        }
    }

    map { s/$\n/ } @outlist; # add \n's
    print @outlist;

}

sub output_context_diff {

```

```

my ($hunk, $fileref1, $fileref2) = @_;
my @blocklist;

print "*****\n";
# Calculate item number range.
my $range1 = $hunk->context_range(1);
my $range2 = $hunk->context_range(2);

# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "*** $range1 ***\n";
my $low = $hunk->{"start1"};
my $hi = $hunk->{"end1"};
if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
my @outlist = @fileref1[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
$outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
    }
}
map {s/$\n/} @outlist; # add \n's
print @outlist;
}

print "--- $range2 ---\n";
$low = $hunk->{"start2"};
$hi = $hunk->{"end2"};
if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
my @outlist = @fileref2[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
$outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
    }
}
map {s/$\n/} @outlist; # add \n's
print @outlist;
}
}

sub context_range {
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"}, $hunk->{"end$flag"});

```

```

$start++; $end++; # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;
return $range;
}

sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $length = $end - $start + 1;
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length == 1 ? $first : "$first,$length";
return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign      - '+' for insert, '-' for remove
# item_no   - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;
my @changes = ();

# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = { "sign" => $sign, "item_no" => $item_no };
push @changes, $hashref;
}

my $block = { "changes" => \@changes };
bless $block, $class;

$block->{"length_diff"} = $block->insert - $block->remove;

```

```

    return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
    my $block = shift;
    my $insert = $block->insert;
    my $remove = $block->remove;

    $remove && $insert and return '!';
    $remove and return '-';
    $insert and return '+';
    warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep { $_->{"sign"} eq '-' } @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep { $_->{"sign"} eq '+' } @{shift->{"changes"}}; }

} # end of package Block

```

Found in path(s):

```
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl
```

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

=head1 NAME

Algorithm::Diff - Compute 'intelligent' differences between two files / lists

=head1 SYNOPSIS

```

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = " ";

```

```

if( ! $diff->Items(2) ) {
    printf "%d,%dd%d\n",
        $diff->Get(qw( Min1 Max1 Max2 ));
} elsif( ! $diff->Items(1) ) {
    printf "%da%d,%d\n",
        $diff->Get(qw( Max1 Min2 Max2 ));
} else {
    $sep = "---\n";
    printf "%d,%dc%d,%d\n",
        $diff->Get(qw( Min1 Max1 Min2 Max2 ));
}
print "< $_" for $diff->Items(1);
print $sep;
print "> $_" for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    { MATCH => \&callback1,
      DISCARD_A => \&callback2,
      DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,

```



```
);

traverse_balanced(
  \@seq1,
  \@seq2,
  { MATCH    => \&callback1,
    DISCARD_A => \&callback2,
    DISCARD_B => \&callback3,
    CHANGE    => \&callback4,
  },
  \&key_generator,
  @extra_args,
);
```

=head1 INTRODUCTION

(by Mark-Jason Dominus)

I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

a b c d f g h j q z

a b c d e f g i j k r x y z

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

a b c d f g j z

From there it's only a small step to get diff-like output:

```
e h i k q r x y
+ - + + - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

```
a x b y c z p d q
a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

```
a x b y c      z p d q
a  b  c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

```
a x b y c z p d q
a b c a x b y c z
```

or

```
a    x b y c z p d q
a b c a x b y c z
```

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS\_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse\_sequences>, and C<traverse\_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

```
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
```

C<LCS> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION

FUNCTIONS>.

```
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );  
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS\_length>

This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );  
my @list1 = @seq1[ @$idx1 ];  
my @list2 = @seq2[ @$idx2 ];  
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );  
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );
```

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

- [ ] Encloses optional arguments
- :
- | Separates alternate return results

Method summary:

```
$obj    = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos    = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj    = $obj->Reset( [ $pos : 0 ] );
$copy   = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );
```

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

```
$bits    = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs|$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx   = $obj->Min( $seqNum, [ $base ] );
$maxIdx   = $obj->Max( $seqNum, [ $base ] );
@values   = $obj->Get( @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

```
$pos = $diff->Next(); # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev(\$N)> is almost identical to C<Next(-\$N)>; it moves to the \$Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

```
$diff->Reset(); # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1); # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk
```

C<Reset> returns the object, so, for example, you could use  
C<< \$diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

```
$copy = $diff->Copy( $newPos, $newBase );
```

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

```
$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);
```

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

```
$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);
```

Here are two equivalent way to get a "reset" copy:

```
$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();
```

=item C<Diff>

```
$bits = $obj->Diff();
```

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

```
=over 4
```

```
=item 3
```

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

```
=item 2
```

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

```
=item 1
```

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

```
=item 0
```

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

```
=back
```

```
=item C<Same>
```

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

```
=item C<Items>
```

```
$count = $diff->Items(2);  
@items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that

are part of the current hunk.

If the current hunk contains only insertions, then

`C<< $diff->Items(1) >>` will return an empty list (0 in a scalar context).

If the current hunk contains only deletions, then `C<< $diff->Items(2) >>` will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both `C<< $diff->Items(1) >>` and `C<< $diff->Items(2) >>` will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

```
@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();
```

=item `C<Range>`

```
$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
```

`C<Range>` is like `C<Items>` except that it returns a list of `I<indices>` to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the `C<Base>` method. So, by default, the following two snippets return the same lists:

```
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets `I<always>` return the same lists:

```
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
```

=item `C<Base>`

```
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
```

`C<Base>` sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/^(-?\d+)?(min|max)[12]$/i
/^(range[12]|same|diff|base)$/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS\_length>.

```
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}
```



```
}
```

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}
```

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

```
@diffs = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );
```

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

would produce the following list:

```
(
  [ [ '-', 0, 'a' ] ],

  [ [ '+', 2, 'd' ] ],

  [ [ '-', 4, 'h' ],
    [ '+', 4, 'f' ] ],

  [ [ '+', 6, 'k' ] ],
```

```

[ [ '-', 8, 'h' ],
  [ '-', 9, 'p' ],
  [ '+', 9, 'r' ],
  [ '+', 10, 's' ],
  [ '+', 11, 't' ] ],
)

```

There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

```

@sdiffs    = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );

```

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

```

same      same
before   |   after
old      <   -
-        >   new

```

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```

a b c e h j l m n p
b c d e f j k l m r s t

```

results in

```

( [ '-', 'a', " ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', " ", 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c', 'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', " ", 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', " ", 't' ],
)

```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact\_diff>

C<compact\_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```

my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
# @a @b @a @b
# start start values values
( 0, 0, # =
  0, 0, # a !
  1, 0, # b c = b c
  3, 2, # ! d
  3, 3, # e = e
  4, 4, # f ! h
  5, 5, # j = j
  6, 6, # ! k
  6, 7, # l m = l m

```

```

    8,  9, # n p ! r s t
    10, 12, #
);

```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<\$diff[0]> through C<\$diff[2] - 1> of the first sequence and contains items C<\$diff[1]> through C<\$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```

    # 1st pair    2nd pair
    # of indices  of indices
    @list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
    @list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
    # Hunk start  Hunk end

```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```

    @hunk1a = @a[ 0 .. 0-1 ];

```

```
@hunk1b = @b[ 0 .. 0-1 ];
```

And `C<0..-1>` returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since `C<@diff[2..5]>` contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since `C<@diff[4..7]>` contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

```
=head2 C<traverse_sequences>
```

C<traverse\_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse\_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<\$A[\$i]> and C<\$B[\$j]> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse\_sequences> when arrow A is pointing to C<\$A[\$i]> and arrow B is pointing to C<\$B[\$j]>. When this happens, C<traverse\_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse\_sequences> will advance that arrow and will call the C<DISCARD\_A> or the C<DISCARD\_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse\_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse\_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```
traverse_sequences(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
  }  
);
```

Callbacks for MATCH, DISCARD\_A, and DISCARD\_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A\_FINISHED and B\_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse\_sequences> will call the C<A\_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD\_B> instead. Similarly if arrow B finishes first.

C<traverse\_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

C<traverse\_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```
traverse_sequences(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
  },  
  undef, # default key-gen  
  $myArgument1,  
  $myArgument2,  
  $myArgument3,  
);
```

C<traverse\_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse\_balanced>

C<traverse\_balanced> is an alternative to C<traverse\_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD\_A>, C<DISCARD\_B>, and C<MATCH> callbacks supported by C<traverse\_sequences>, C<traverse\_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
traverse_balanced(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
    CHANGE => $callback_4,  
  },  
  undef, # default key-gen  
  $myArgument1,  
  $myArgument2,  
  $myArgument3,  
  $myArgument4,  
);
```

```

        CHANGE => $callback_4,
    }
);

```

If no C<CHANGE> callback is specified, C<traverse\_balanced> will map C<CHANGE> events to C<DISCARD\_A> and C<DISCARD\_B> actions, therefore resulting in a similar behaviour as C<traverse\_sequences> with different order of events.

C<traverse\_balanced> might be a bit slower than C<traverse\_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse\_balanced>.

C<traverse\_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

## =head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator "".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```

package Person;

sub new
{
    my $package = shift;
    return bless { name => "", ssn => "", @_ }, $package;
}

sub clone
{

```



```

    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

```

If you did this:

```

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4, $person5 ];
Algorithm::Diff::diff( $array1, $array2 );

```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );

```

`$person4` and `$person4->clone()` (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```

my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

```

This would use the 'ssn' field in each Person as a comparison key, and so would consider `$person4` and `$person4->clone()` as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (<http://perlmonks.org/?node=tye>).

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Parts by Tye McQueen.

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to [mjd-perl-diff-request@plover.com](mailto:mjd-perl-diff-request@plover.com).

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, [mjd-perl-diff@plover.com](mailto:mjd-perl-diff@plover.com)

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <[mario@wolczko.com](mailto:mario@wolczko.com)>, which is available at <ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st>

C<sdiff> and C<traverse\_balanced> were written by Mike Schilli <[m@perlmeister.com](mailto:m@perlmeister.com)>.

The algorithm is that described in I<A Fast Algorithm for Computing Longest Common Subsequences>, CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.

Much work was done by Ned Konz ([perl@bike-nomad.com](mailto:perl@bike-nomad.com)).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):

\* /opt/cola/permits/1136205540\_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-

1.1903/lib/Algorithm/Diff.pm

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

```
#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#

use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {

    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s\n", $lineno+1, $text;
    }
    print "-----\n";
}

exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
}
```

```
exit 2;
}
```

Found in path(s):

```
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl
```

# 1.220 man-pages 4.15-1

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## 1.227 python-setuptools 39.0.1-2

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trust/oid.c trust/oid.h

trust/pem.c trust/pem.h common/argv.c common/argv.h common/pkcs11x.h

common/pkcs11i.h

common/test-constants.c common/test-hash.c

p11-kit/pkcs11.h p11-kit/test-managed.c

trust/builder.c

trust/builder.h trust/digest.h trust/module.c trust/module.h trust/pem.c

trust/pem.h trust/oid.c trust/oid.h trust/parser.h

trust/session.c trust/session.h trust/frob-cert.c

trust/frob-eku.c trust/frob-token.c

trust/test-digest.c trust/test-enumerate.c

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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.

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

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c

lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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Version 3, 29 June 2007

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```
# COPYING.other          -*- org -*-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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# 1.241 psutil 5.6.6

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# 1.242 telemetry-agent 1.5.0

## 1.242.1 Available under license :

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

Metadata-Version: 2.1

Name: telemetry-agent

Version: 1.5.0

Summary: Maglev Telemetry Agent (1.5.0)

Home-page: UNKNOWN

License: UNKNOWN

Platform: manylinux1\_x86\_64

Requires-Dist: setuptools-rust

Requires-Dist: maglev-common (~=1.7.0)  
Requires-Dist: maglev-api (~=1.7.0)  
Requires-Dist: maglev-internal-api (~=1.7.0)  
Requires-Dist: maglev-appserver (~=1.8.0)  
Requires-Dist: cert-validator (~=1.5.0)  
Requires-Dist: urllib3 (>=1.25.9)

# Installation

+ Requires : Python 3.5 download the dmg and install, use pyvenv to create a virtual environment

# Testing

TEST\_MODE=true START MOCK=True SERVER\_NAME=telemetry\_agent python -m telemetry\_agent  
SERVER\_NAME=telemetry\_agent pytest -s tests/

Found in path(s):

\* /opt/cola/permits/1155096251\_1626370123.6/0/telemetry-agent-1-5-0-dist-info-  
zip/telemetry\_agent\_extracted/telemetry\_agent-1.5.0-py3-none-any.whl\_extracted/telemetry\_agent-1.5.0.dist-  
info/METADATA

## 1.243 libc 2.27-3ubuntu1.4

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## 1.246 urllib3 1.25.11

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\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

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\* Non-multipart encoding for POST requests

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- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection

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- \* Support for standard library io module.
  
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- \* tlynn <https://github.com/tlynn>
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- \* Clues to debugging problems with `cryptography` dependency in docs
  
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- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
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- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
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- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
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- \* Alexandre Dias <alex.dias@smarkets.com>
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- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>

- \* Drop support for EOL Python 2.6
- \* Tim Bell <<https://github.com/timb07>>
  - \* Bugfix for responses with Content-Type: message/\* logging warnings
- \* Justin Bramley <<https://github.com/jbramleycl>>
  - \* Add ability to handle multiple Content-Encodings
- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
  - \* Remove Authorization header regardless of case when redirecting to cross-site
- \* James Meickle <<https://permadeath.com/>>
  - \* Improve handling of Retry-After header
- \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>
  - \* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
- \* Jorge Lopez Silva <<https://github.com/jalopezsilva>>
  - \* Added support for forwarding requests through HTTPS proxies.
- \* Benno Rice <[benno@jeamland.net](mailto:benno@jeamland.net)>
  - \* Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.
- \* Keiichi Kobayashi <[abok.1k@gmail.com](mailto:abok.1k@gmail.com)>
  - \* Rename VerifiedHTTPSConnection to HTTPSConnection
- \* Himanshu Garg <[garg\\_himanshu@outlook.com](mailto:garg_himanshu@outlook.com)>
  - \* DOC & LICENSE Update
- \* Hod Bin Noon <[bin.noon.hod@gmail.com](mailto:bin.noon.hod@gmail.com)>
  - \* Test improvements
- \* Chris Olufson <[tycarac@gmail.com](mailto:tycarac@gmail.com)>
  - \* Fix for connection not being released on HTTP redirect and response not preloaded
- \* [Bastiaan Bakker] <<https://github.com/bastiaanb>>
  - \* Support for logging session keys via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)
- \* [Your name or handle] <[email or website]>
  - \* [Brief summary of your changes]

## 1.247 urllib3 1.22



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# Contributions to the urllib3 project

## Creator & Maintainer

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

## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <[niphlod@gmail.com](mailto: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](mailto:brian@btoconnor.net)>

- \* Non-multipart encoding for POST requests
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- \* Code review, PEP8 compliance, benchmark fix
- \* kennethreitz <[me@kennethreitz.com](mailto:me@kennethreitz.com)>
- \* Bugfixes, suggestions, Requests integration
- \* georgemarshall <<http://github.com/georgemarshall>>
- \* Bugfixes, Improvements and Test coverage
- \* Thomas Kluyver <[thomas@kluyver.me.uk](mailto:thomas@kluyver.me.uk)>
- \* Python 3 support
- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
- \* Design review, bugfixes, test coverage.
- \* studer <[theo.studer@gmail.com](mailto:theo.studer@gmail.com)>
- \* IPv6 url support and test coverage
- \* Shivaram Lingamneni <[slingamn@cs.stanford.edu](mailto:slingamn@cs.stanford.edu)>
- \* Support for explicitly closing pooled connections
- \* hartator <[hartator@gmail.com](mailto:hartator@gmail.com)>
- \* Corrected multipart behavior for params
- \* Thomas Weischuh <[thomas@t-8ch.de](mailto: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](mailto:mig@ibofobi.dk)>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
- \* Marc Schlaich <[marc.schlaich@gmail.com](mailto:marc.schlaich@gmail.com)>
- \* Various bugfixes and test improvements.
- \* Bryce Boe <[bbzbryce@gmail.com](mailto:bbzbryce@gmail.com)>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
- \* Boris Figovsky <[boris.figovsky@ravellosystems.com](mailto: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 <abacabadabacaba@gmail.com>
- \* Bugfixes
- \* Benjamin 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](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <[jesse@jesseshapiro.net](mailto: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](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto: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](mailto: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
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\* markupsafe.\_speedups

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\*/

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\* /opt/cola/permits/1160876786\_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-tar-gz/sailfishos-mirror-markupsafe-22c946d/src/markupsafe/\_speedups.c

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

\* License: `BSD-3-Clause <<https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>>`\_

Found in path(s):

\* /opt/cola/permits/1160876786\_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-tar-gz/sailfishos-mirror-markupsafe-22c946d/README.rst

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

"License :: OSI Approved :: BSD License",

Found in path(s):

\* /opt/cola/permits/1160876786\_1620411589.43/0/sailfishos-mirror-markupsafe-1-1-1-0-g22c946d-1-tar-gz/sailfishos-mirror-markupsafe-22c946d/setup.py

# 1.253 click 6.6

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# 1.254 tornado 4.5.3

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# 1.255 python3-xdg 0.25-4ubuntu1.1

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The code used in the OpenSSL locking callback and OS random engine is derived from the same in CPython itself, and is licensed under the terms of the PSF License Agreement.

# 1.257 urllib3 1.26.5

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# Contributions to the urllib3 project

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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/>>
- \* Code review, PEP8 compliance, benchmark fix
  
- \* kennethreitz <me@kennethreitz.com>
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- \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections
  
- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>

- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <https://lukasa.co.uk/about/>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
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- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs

- \* Bugfixes, docs, test coverage
- \* Tahia Khan <<http://tahia.tk/>>
- \* Added Timeout examples in docs
- \* Arthur Grunseid <<https://grunseid.com>>
- \* source\_address support and tests (with <https://github.com/bui>)
- \* Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
- \* Google App Engine documentation
- \* Aaron Meurer <[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
- \* Bugfixes
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto: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](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>
- \* App Engine environment tests.
- \* Documentation re-write.
- \* John Krauss <<https://github.com/talos>>
- \* Clues to debugging problems with `cryptography` dependency in docs

- \* Disassem <<https://github.com/Disassem>>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <[jlatherfold@hotmail.com](mailto: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](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@googlemail.com](mailto:andy.m.caldwell@googlemail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto: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](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.

- \* HTTPResponse contains the last Retry object.
- \* Nate Prewitt <nate.prewitt@gmail.com>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
- \* Mike Miller <github@mikeage.net>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
- \* Ioannis Tziakos <mail@itziakos.gr>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.
- \* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  - \* Ongoing maintenance; 2017-2018
- \* Dominique Leuenberger <dimstar@opensuse.org>
  - \* Minor fixes in the test suite
- \* Will Bond <will@wbond.net>
  - \* Add Python 2.6 support to ``contrib.securetransport``

- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header regardless of case when redirecting to cross-site
  
- \* James Meickle <https://permadeath.com/>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* Jorge Lopez Silva <https://github.com/jalopezsilva>
- \* Added support for forwarding requests through HTTPS proxies.
  
- \* Benno Rice <benno@jeamland.net>
- \* Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.
  
- \* Keiichi Kobayashi <abok.1k@gmail.com>
- \* Rename VerifiedHTTPSConnection to HTTPSConnection
  
- \* Himanshu Garg <garg\_himanshu@outlook.com>
- \* DOC & LICENSE Update
  
- \* Hod Bin Noon <bin.noon.hod@gmail.com>
- \* Test improvements
  
- \* Chris Olufson <tycarac@gmail.com>
- \* Fix for connection not being released on HTTP redirect and response not preloaded
  
- \* [Bastiaan Bakker] <https://github.com/bastiaanb>



\* Support for logging session keys via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

\* [Ezzeri Esa] <<https://github.com/savarin>>

\* Ports and extends on types from typeshed

\* [Your name or handle] <[email or website]>

\* [Brief summary of your changes]

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# 1.258 python-certifi 2018.1.18

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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:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.259 future 0.18.2-1.ph3

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## 1.260 maglev-fips 1.0

### 1.260.1 Available under license :

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Metadata-Version: 2.0

Name: maglev-fips

Version: 1.0

Summary: This is to set FIPS mode in CiscoSSL

Home-page: <https://github3.cisco.com/project-maglev/maglev-fips>

Author: Maglev Team

Author-email: [maglev-dev@cisco.com](mailto:maglev-dev@cisco.com)

License: UNKNOWN

Platform: UNKNOWN

This is used to set the FIPS mode

Found in path(s):

\* /opt/cola/permits/1175804237\_1624491764.8/0/maglev-fips-1-0-dist-info-zip/inputdir/packages\_extracted/targz/1/packages\_extracted/1/packages\_extracted/1/packages\_extracted/20/maglev\_fips-1.0.dist-info/METADATA

## 1.261 python-pip 9.0.1-2.3~ubuntu1.18.04.5

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Source: <http://www.pip-installer.org/>

Files: \*

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|         | from    |      |       | compatible? (1) |

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|-------|-------|------|-----|-----|
| 2.5   | 2.4   | 2006 | PSF | yes |
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| 3.1.1 | 3.1   | 2009 | PSF | yes |
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| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2   | 3.1   | 2011 | PSF | yes |
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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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

However, linking a "work that uses the Library" with the Library

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

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

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

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

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

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- 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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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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- 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.)

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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

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

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\* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were

derived from the ones in the Monotone project, revision  
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', ' ')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:  
- mode: sgml  
- End:

-->

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## 1.283 importlib-resources 5.4.0

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## 1.284 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  
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads  
THREADSCPPFLAGS = -D_REENTRANT  
LIBCPPFLAGS =
```

```
## Compiler switch to embed a runtime search path  
LD_RPATH=
```



```

LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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

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

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

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use

```

BIR\_LDFLAGS= -Wl,-Bsymbolic

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

BIR\_DEPS=

## Remove shared library 's'

STATIC\_PREFIX\_WHEN\_USED =

STATIC\_PREFIX =

## End BSD-specific setup

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  */
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*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
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For t\_cl\_generator.cc

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

Author: Julio Merino <jmmv84@gmail.com>

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

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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', ' ')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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# 1.287 dnutils 9.11.3+dfsg-1ubuntu1.16

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Automated Testing Framework

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

```

<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
<xsl:text>&#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
<xsl:if test="translate($rest, '&#9;&#32;', '')">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
  </xsl:call-template>
</xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

```

```

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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# 1.288 liblwres160 9.11.3+dfsg-1ubuntu1.16

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Automated Testing Framework

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- \* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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- \* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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- \* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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

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

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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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</xsl:text>

</xsl:variable>

<xsl:variable name="isc.copyright">

```

<xsl:call-template name="isc.copyright.format">
  <xsl:with-param name="text">
    <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
      <xsl:text>Copyright (C) </xsl:text>
      <xsl:call-template name="copyright.years">
        <xsl:with-param name="years" select="year"/>
      </xsl:call-template>
      <xsl:text> </xsl:text>
      <xsl:value-of select="holder"/>
      <xsl:value-of select="$isc.copyright.breakline"/>
      <xsl:text>&#10;</xsl:text>
    </xsl:for-each>
    <xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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# 1.290 libisccfg160 9.11.3+dfsg-1ubuntu1.16

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Automated Testing Framework

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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</xsl:text>

</xsl:variable>

<xsl:variable name="isc.copyright">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text">

<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">

<xsl:text>Copyright (C) </xsl:text>

<xsl:call-template name="copyright.years">

<xsl:with-param name="years" select="year"/>

</xsl:call-template>

<xsl:text> </xsl:text>

```

<xsl:value-of select="holder"/>
  <xsl:value-of select="$isc.copyright.breakline"/>
<xsl:text>#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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\* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', ' ')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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# 1.292 libbind 9.11.3+dfsg-1ubuntu1.16

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

```

<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
<xsl:text>&#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
<xsl:if test="translate($rest, '&#9;&#32;', '')">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
  </xsl:call-template>
</xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

```

```

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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- \* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>



\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

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<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:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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- \* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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- \* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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



Author: Julio Merino <jmmv84@gmail.com>

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

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-->

<!-- \$Id\$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<xsl:call-template name="isc.copyright.format">

<xsl:with-param name="text" select="\$rest"/>

</xsl:call-template>

</xsl:if>

</xsl:template>

<xsl:variable name="isc.copyright.text">

<xsl:text>

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</xsl:text>

</xsl:variable>

<xsl:variable name="isc.copyright">

```

<xsl:call-template name="isc.copyright.format">
  <xsl:with-param name="text">
    <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
      <xsl:text>Copyright (C) </xsl:text>
      <xsl:call-template name="copyright.years">
        <xsl:with-param name="years" select="year"/>
      </xsl:call-template>
      <xsl:text> </xsl:text>
      <xsl:value-of select="holder"/>
      <xsl:value-of select="$isc.copyright.breakline"/>
      <xsl:text>&#10;</xsl:text>
    </xsl:for-each>
    <xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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## 1.295.1 Available under license :

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That's all there is to it!

# 1.297 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

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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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| 1.6            | 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                 |
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|----------------|--------------|-----------|------------|---------------------|
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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
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#### Mersenne Twister

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The `\_random` module includes code based on a download from  
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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)`  
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<http://www.math.keio.ac.jp/matamoto/emt.html>

email: [matamoto@math.keio.ac.jp](mailto:matamoto@math.keio.ac.jp)

## 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/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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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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| 1.3 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                     |
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| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
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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)`  
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<http://www.math.keio.ac.jp/matamoto/emt.html>

email: [matamoto@math.keio.ac.jp](mailto:matamoto@math.keio.ac.jp)

## 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/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 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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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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| Release        | Derived<br>from | Year      | Owner      | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|------------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI        | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |
| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no                      |
| 2.0.1          | 2.0+1.6.1       | 2001      | PSF        | yes                     |
| 2.1.1          | 2.1+2.0.1       | 2001      | PSF        | yes                     |
| 2.2            | 2.1.1           | 2001      | PSF        | yes                     |
| 2.1.2          | 2.1.1           | 2002      | PSF        | yes                     |
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Mersenne Twister

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The `\_random` module includes code based on a download from  
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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)`  
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<http://www.math.keio.ac.jp/matumoto/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/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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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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|----------------|--------------|-----------|------------|---------------------|
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| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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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

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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/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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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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|----------------|--------------|-----------|------------|---------------------|
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
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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)`  
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<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto: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 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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### 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.

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|----------------|-----------------|-----------|------------|-------------------------|
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| 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                     |
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software 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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|         | from    |      |       | compatible? (1) |

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| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.2            | 2.1.1     | 2001      | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
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Mersenne Twister

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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:

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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  
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Floating point exception control

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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.
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|                  |                           |
|------------------|---------------------------|
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| jloup@gzip.org   | madler@alumni.caltech.edu |

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\*/

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```
# Contributor Covenant Code of Conduct
```

```
## Our Pledge
```

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

## ## Our Standards

Examples of behavior that contributes to a positive environment for our community include:

- \* Demonstrating empathy and kindness toward other people
- \* Being respectful of differing opinions, viewpoints, and experiences
- \* Giving and gracefully accepting constructive feedback
- \* Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
- \* Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

- \* The use of sexualized language or imagery, and sexual attention or advances of any kind
- \* Trolling, insulting or derogatory comments, and personal or political attacks
- \* Public or private harassment
- \* Publishing others' private information, such as a physical or email address, without their explicit permission
- \* Other conduct which could reasonably be considered inappropriate in a professional setting

## ## Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of acceptable behavior and will take appropriate and fair corrective action in response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

## ## Scope

This Code of Conduct applies within all community spaces, and also applies when an individual is officially representing the community in public spaces.

Examples of representing our community include using an official e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event.

## ## Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be

reported to the project lead.

All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

## ## Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining the consequences for any action they deem in violation of this Code of Conduct:

### ### 1. Correction

**\*\*Community Impact\*\*:** Use of inappropriate language or other behavior deemed unprofessional or unwelcome in the community.

**\*\*Consequence\*\*:** A private, written warning from community leaders, providing clarity around the nature of the violation and an explanation of why the behavior was inappropriate. A public apology may be requested.

### ### 2. Warning

**\*\*Community Impact\*\*:** A violation through a single incident or series of actions.

**\*\*Consequence\*\*:** A warning with consequences for continued behavior. No interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, for a specified period of time. This includes avoiding interactions in community spaces as well as external channels like social media. Violating these terms may lead to a temporary or permanent ban.

### ### 3. Temporary Ban

**\*\*Community Impact\*\*:** A serious violation of community standards, including sustained inappropriate behavior.

**\*\*Consequence\*\*:** A temporary ban from any sort of interaction or public communication with the community for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

### ### 4. Permanent Ban

**\*\*Community Impact\*\*:** Demonstrating a pattern of violation of community standards, including sustained inappropriate behavior, harassment of an individual, or aggression toward or disparagement of classes of individuals.

**\*\*Consequence\*\***: A permanent ban from any sort of public interaction within the community.

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Community Impact Guidelines were inspired by [Mozilla's code of conduct enforcement ladder](<https://github.com/mozilla/diversity>).

[homepage]: <https://www.contributor-covenant.org>

For answers to common questions about this code of conduct, see the FAQ at <https://www.contributor-covenant.org/faq>. Translations are available at <https://www.contributor-covenant.org/translations>.

Found in path(s):

\* /opt/cola/permits/1271961303\_1645142519.38/0/future-develop-zip/future-develop/CONDUCT.md  
No license file was found, but licenses were detected in source scan.

Package: dummy

Version: 0.1

Title: A Dummy Package

Description: A package placeholder to trick 'usethis' to stop at the folder where this DESCRIPTION file lives rather than traversing higher up in the directory structure. This protects against bugs such as the one described in <https://github.com/r-lib/lifecycle/issues/52>.

Authors@R: person("Dummy", "Dummyson", role="aut", email = "dummy@dummy.org")

License: GPL (>= 3)

Imports:

lifecycle

RdMacros: lifecycle

Found in path(s):

\* /opt/cola/permits/1271961303\_1645142519.38/0/future-develop-zip/future-develop/revdep/DESCRIPTION  
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Package: future

Version: 1.23.0-9006

Title: Unified Parallel and Distributed Processing in R for Everyone

Imports:

digest,

globals (>= 0.14.0),

listenv (>= 0.8.0),

parallel,

parallelly (>= 1.30.0),

```

tools,
utils
Suggests:
  RhpcBLASctl,
  R.rsp,
  markdown
VignetteBuilder: R.rsp
Authors@R: c(person("Henrik", "Bengtsson", role=c("aut", "cre", "cph"),
                    email = "henrikb@braju.com"))
Description: The purpose of this package is to provide a lightweight and
  unified Future API for sequential and parallel processing of R
  expression via futures. The simplest way to evaluate an expression
  in parallel is to use `x %<-% { expression }` with `plan(multisession)`.
  This package implements sequential, multicore, multisession, and
  cluster futures. With these, R expressions can be evaluated on the
  local machine, in parallel a set of local machines, or distributed
  on a mix of local and remote machines.
  Extensions to this package implement additional backends for
  processing futures via compute cluster schedulers, etc.
  Because of its unified API, there is no need to modify any code in order
  switch from sequential on the local machine to, say, distributed
  processing on a remote compute cluster.
  Another strength of this package is that global variables and functions
  are automatically identified and exported as needed, making it
  straightforward to tweak existing code to make use of futures.
License: LGPL (>= 2.1)
LazyLoad: TRUE
ByteCompile: TRUE
URL: https://future.futureverse.org, https://github.com/HenrikBengtsson/future
BugReports: https://github.com/HenrikBengtsson/future/issues
RoxygenNote: 7.1.2
Roxygen: list(markdown = TRUE)

```

Found in path(s):

\* /opt/cola/permits/1271961303\_1645142519.38/0/future-develop-zip/future-develop/DESCRIPTION

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@end macro

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@macro copyrightend{ }

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@comment node-name, next, previous, up

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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 libcrypto

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D3DES (V5.09) -

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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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# 1.314 dumb-init 1.2.6-cisco

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>  
Upstream-Name: dumb-init  
Source: <https://github.com/Yelp/dumb-init/>

Files: \*

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Files: debian/\*

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# 1.315 oscrypto 1.3.0

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### A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for



the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release from   | Derived   | Year      | Owner      | GPL-compatible? (1) |
|----------------|-----------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2     | 2000      | CNRI       | no                  |
| 2.0            | 1.6       | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1     | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2       | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1     | 2002      | PSF        | yes                 |
| 2.3            | 2.2.2     | 2002-2003 | PSF        | yes                 |

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## 1.317 tzlocal 4.2

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## 1.319 maglev-appctl 1.7.22

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Found in path(s):

\* /opt/cola/permits/1264666545\_1675763596.9347897/0/maglev-appctl-1-7-22-1-7-828-py2-py3-none-any-whl-zip/maglev\_appctl/utlis.py

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// Standard extensions get all permissions by default

```
grant codeBase "file:${ {java.ext.dirs} }/*" {  
    permission java.security.AllPermission;  
};
```

// default permissions granted to all domains

```
grant {  
    // Allows any thread to stop itself using the java.lang.Thread.stop()  
    // method that takes no argument.  
    // Note that this permission is granted by default only to remain  
    // backwards compatible.  
    // It is strongly recommended that you either remove this permission  
    // from this policy file or further restrict it to code sources  
    // that you specify, because Thread.stop() is potentially unsafe.  
    // See the API specification of java.lang.Thread.stop() for more  
    // information.  
    permission java.lang.RuntimePermission "stopThread";  
  
    // allows anyone to listen on dynamic ports  
    permission java.net.SocketPermission "localhost:0", "listen";  
  
    // "standard" properies that can be read by anyone  
  
    // FIPS specific policy  
    permission java.lang.RuntimePermission "accessClassInPackage.sun.security.internal.spec";  
    permission org.bouncycastle.crypto.CryptoServicesPermission "tlsAlgorithmsEnabled";  
    permission org.bouncycastle.crypto.CryptoServicesPermission "defaultRandomConfig";
```



```

permission java.security.SecurityPermission "putProviderProperty.BCFIPS";

permission java.util.PropertyPermission "java.version", "read";
permission java.util.PropertyPermission "java.vendor", "read";
permission java.util.PropertyPermission "java.vendor.url", "read";
permission java.util.PropertyPermission "java.class.version", "read";
permission java.util.PropertyPermission "os.name", "read";
permission java.util.PropertyPermission "os.version", "read";
permission java.util.PropertyPermission "os.arch", "read";
permission java.util.PropertyPermission "file.separator", "read";
permission java.util.PropertyPermission "path.separator", "read";
permission java.util.PropertyPermission "line.separator", "read";

permission java.util.PropertyPermission "java.specification.version", "read";
permission java.util.PropertyPermission "java.specification.vendor", "read";
permission java.util.PropertyPermission "java.specification.name", "read";

permission java.util.PropertyPermission "java.vm.specification.version", "read";
permission java.util.PropertyPermission "java.vm.specification.vendor", "read";
permission java.util.PropertyPermission "java.vm.specification.name", "read";
permission java.util.PropertyPermission "java.vm.version", "read";
permission java.util.PropertyPermission "java.vm.vendor", "read";
permission java.util.PropertyPermission "java.vm.name", "read";

permission java.util.PropertyPermission "sun.security.pkcs11.disableKeyExtraction", "read";
};

```

Found in path(s):

\* /opt/cola/permits/1264666545\_1675763596.9347897/0/maglev-appctl-1-7-22-1-7-828-py2-py3-none-any-whl-  
zip/maglev\_appctl-1.7.22.data/data/fips-java-8.java.policy

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zip/maglev\_appctl/\_\_main\_\_.py

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Metadata-Version: 2.0

Name: maglev-appctl

Version: 1.7.22

Summary: Maglev Python Application Controller (1.7.22)

Home-page: UNKNOWN

Author: UNKNOWN

Author-email: UNKNOWN

License: UNKNOWN

Platform: UNKNOWN

Requires-Dist: MarkupSafe (==1.1.1)  
Requires-Dist: click (==6.6)  
Requires-Dist: click-completion (==0.2.1)  
Requires-Dist: hprof2flamegraph (==0.0.6)  
Requires-Dist: jinja2 (==2.8)  
Requires-Dist: psutil (==5.6.6)  
Requires-Dist: pyJwt (==1.5.1)  
Requires-Dist: requests (==2.25.1)  
Requires-Dist: toml (==0.9.2)

# Installation

+ Requires : Python 3.5 download the dmg and install, use pyvenv to create a virtual environment

# How to test and develop in local mac

- Use pyvenv to create a virtual env in /opt/maglev
- u can either call the activate script to activate the virtualenv

Found in path(s):

\* /opt/cola/permits/1264666545\_1675763596.9347897/0/maglev-appctl-1-7-22-1-7-828-py2-py3-none-any-whl-  
zip/maglev\_appctl-1.7.22.dist-info/METADATA

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""""

class ABC:

def check\_valid(self, name):

pass

def run(self, name, super\_strings, logging\_dir, extra\_args, debug, foreground, profile\_cpu, code\_coverage):

pass

def upgrade\_appcontainer(self):

pass

def top(self, name, stack, thread, watch):

pass

def start\_cpu\_profiling(self, name):

pass

def stop\_cpu\_profiling(self, name):

pass

def gen\_cpu\_flamegraph(self, name, pid):

pass

```
def profile_memory(self, name, pid, port):
```

```
    pass
```

```
def thread_dump(self, name, pid):
```

```
    pass
```

```
def initialize_code_coverage(self, name):
```

```
    pass
```

Found in path(s):

\* /opt/cola/permits/1264666545\_1675763596.9347897/0/maglev-appctl-1-7-22-1-7-828-py2-py3-none-any-whl-  
zip/maglev\_appctl/base.py

# 1.320 retrying 1.3.3

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Metadata-Version: 2.0

Name: pkg\_resources

Version: 0.0.0

Summary: UNKNOWN

Home-page: UNKNOWN

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Found in path(s):

\* /opt/cola/permits/1320410882\_1651537966.27/0/pkg-resources-0-0-0-dist-info-  
zip/inputdir/packages\_extracted/wheel/103/pkg\_resources-0.0.0.dist-info/METADATA

## 1.322 python3-asn1crypto 1.5.1

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## 1.323 semantic-version 2.10.0



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## 1.324 python-certifi 2018.01.18

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

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore 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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# 1.325 pyflame 1.6.6-

## 1ubuntu1~ppa~1.gbp8fefec~bionic0

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## 1.326 cffi 1.15.1

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## 1.327 python 3.6.9-1~18.04

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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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|----------------|--------------|-----------|------------|---------------------|
| 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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# 1.328 python 3.6.7-1~18.04

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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@cw.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.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.3 | 2.1.2 | 2002      | PSF | yes |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
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| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |

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@item

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@item

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@item

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@subheading END OF TERMS AND CONDITIONS

@page

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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Version 2, June 1991

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```
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/\* signal\_node.h -\*-C++-\*-

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/\* stats.c            -\*\_C-\*\_

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\*  
\* `cilk_undocumented.h`

\*  
\* This file defines exported functions that are not included in the standard  
\* documentation.  
\*/

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/\* `cilk_fiber-unix.h`                    \*-C++-\*

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Found in path(s):

```

* /opt/cola/permits/1399044488_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/metacall_impl.h

```

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```

/* cilk-ittnotify.h          -*-C++-*-
*
* *****
*

```

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```
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* safe_str_constraint.h  
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* October 2008, Bo Berry  
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*-----  
*/
```

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/\* cilk\_api.c            -\*-C-\*-

\*

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```

/* reducer_list.h          -*- C++ -*-

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/\* component.h                -\*-C++-\*

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- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/include/cilk/reducer\_min.h

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```
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/\* reducer\_vector.h -\*- C++ -\*-

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```

```

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```

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```

Found in path(s):

- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/config/x86/cilk-abi-vla.c
- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/config/arm/cilk-abi-vla.c
- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/config/generic/cilk-abi-vla.c
- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/config/sparc/cilk-abi-vla.c
- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/declare-alloca.h

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```
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\*  
\* metacall.h  
\*

\* This is an internal header file defining part of the metacall  
\* interface used by Cilkscreen. It is not a stable API and is  
\* subject to change without notice.

\*/

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/\* acknowledgements.dox

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\* This file contains acknowledgements of community contributions to the  
\* Cilk Plus runtime.

\*/

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\* @mainpage

\*

\* @section Acknowledgements Acknowledgements

\*

\* Modifications to build the Cilk Plus runtime for VxWorks provided by  
\* Brian Kuhl of Wind River.

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/\* scheduler.h            -\*-C++-\*

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/\* reducer\_opmul.h                    -\*- C++ -\*-

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```

## CILKABIO

```

{
global:
__cilkrts_bind_thread;
__cilkrts_cilk_for_32;
__cilkrts_cilk_for_64;
__cilkrts_debugger_notification;
__cilkrts_dump_stats;
__cilkrts_end_cilk;
__cilkrts_enter_frame;
__cilkrts_enter_frame_fast;
__cilkrts_get_force_reduce;
__cilkrts_get_nworkers;
__cilkrts_get_tls_worker;
__cilkrts_get_tls_worker_fast;
__cilkrts_get_total_workers;
__cilkrts_get_worker_number;
__cilkrts_global_state;
__cilkrts_hyper_create;
__cilkrts_hyper_destroy;
__cilkrts_hyper_lookup;
__cilkrts_hyperobject_alloc;
__cilkrts_hyperobject_dealloc;
__cilkrts_hyperobject_noop_destroy;
__cilkrts_init;
__cilkrts_leave_frame;
__cilkrts_metacall;
__cilkrts_rethrow;
__cilkrts_return_exception;
__cilkrts_set_param;
__cilkrts_sync;
__cilkrts_synched;
__cilkrts_worker_stub;

```

```
local: *;  
};
```

## CILKABI1

```
{  
global:  
__cilkrts_bind_thread_1;  
__cilkrts_bump_loop_rank;  
__cilkrts_bump_loop_rank_internal;  
__cilkrts_bump_worker_rank;  
__cilkrts_bump_worker_rank_internal;  
__cilkrts_enter_frame_1;  
__cilkrts_enter_frame_fast_1;  
__cilkrts_get_pedigree_info;  
__cilkrts_get_pedigree_internal;  
__cilkrts_get_sf;  
__cilkrts_get_stack_size;  
__cilkrts_get_worker_rank;  
__cilkrts_resume;  
__cilkrts_save_fp_ctrl_state;  
__cilkrts_stack_alloc;  
__cilkrts_stack_free;  
__cilkrts_suspend;  
__cilkrts_watch_stack;  
};
```

## CILKLIB1.02

```
{  
global:  
cilk_c_reducer_max_identity_char;  
cilk_c_reducer_max_identity_double;  
cilk_c_reducer_max_identity_float;  
cilk_c_reducer_max_identity_int;  
cilk_c_reducer_max_identity_long;  
cilk_c_reducer_max_identity_longdouble;  
cilk_c_reducer_max_identity_longlong;  
cilk_c_reducer_max_identity_schar;  
cilk_c_reducer_max_identity_short;  
cilk_c_reducer_max_identity_uchar;  
cilk_c_reducer_max_identity_uint;  
cilk_c_reducer_max_identity_ulong;  
cilk_c_reducer_max_identity_ulonglong;  
cilk_c_reducer_max_identity_unsigned;  
cilk_c_reducer_max_identity_ushort;  
cilk_c_reducer_max_identity_wchar_t;  
cilk_c_reducer_max_index_identity_char;  
cilk_c_reducer_max_index_identity_double;  
cilk_c_reducer_max_index_identity_float;
```

```

cilk_c_reducer_max_index_identity_int;
cilk_c_reducer_max_index_identity_long;
cilk_c_reducer_max_index_identity_longdouble;
cilk_c_reducer_max_index_identity_longlong;
cilk_c_reducer_max_index_identity_schar;
cilk_c_reducer_max_index_identity_short;
cilk_c_reducer_max_index_identity_uchar;
cilk_c_reducer_max_index_identity_uint;
cilk_c_reducer_max_index_identity_ulong;
cilk_c_reducer_max_index_identity_ulonglong;
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cilk_c_reducer_max_index_identity_ushort;
cilk_c_reducer_max_index_identity_wchar_t;
cilk_c_reducer_max_index_reduce_char;
cilk_c_reducer_max_index_reduce_double;
cilk_c_reducer_max_index_reduce_float;
cilk_c_reducer_max_index_reduce_int;
cilk_c_reducer_max_index_reduce_long;
cilk_c_reducer_max_index_reduce_longdouble;
cilk_c_reducer_max_index_reduce_longlong;
cilk_c_reducer_max_index_reduce_schar;
cilk_c_reducer_max_index_reduce_short;
cilk_c_reducer_max_index_reduce_uchar;
cilk_c_reducer_max_index_reduce_uint;
cilk_c_reducer_max_index_reduce_ulong;
cilk_c_reducer_max_index_reduce_ulonglong;
cilk_c_reducer_max_index_reduce_unsigned;
cilk_c_reducer_max_index_reduce_ushort;
cilk_c_reducer_max_index_reduce_wchar_t;
cilk_c_reducer_max_reduce_char;
cilk_c_reducer_max_reduce_double;
cilk_c_reducer_max_reduce_float;
cilk_c_reducer_max_reduce_int;
cilk_c_reducer_max_reduce_long;
cilk_c_reducer_max_reduce_longdouble;
cilk_c_reducer_max_reduce_longlong;
cilk_c_reducer_max_reduce_schar;
cilk_c_reducer_max_reduce_short;
cilk_c_reducer_max_reduce_uchar;
cilk_c_reducer_max_reduce_uint;
cilk_c_reducer_max_reduce_ulong;
cilk_c_reducer_max_reduce_ulonglong;
cilk_c_reducer_max_reduce_unsigned;
cilk_c_reducer_max_reduce_ushort;
cilk_c_reducer_max_reduce_wchar_t;
cilk_c_reducer_min_identity_char;
cilk_c_reducer_min_identity_double;
cilk_c_reducer_min_identity_float;

```



```

cilk_c_reducer_min_identity_int;
cilk_c_reducer_min_identity_long;
cilk_c_reducer_min_identity_longdouble;
cilk_c_reducer_min_identity_longlong;
cilk_c_reducer_min_identity_schar;
cilk_c_reducer_min_identity_short;
cilk_c_reducer_min_identity_uchar;
cilk_c_reducer_min_identity_uint;
cilk_c_reducer_min_identity_ulong;
cilk_c_reducer_min_identity_ulonglong;
cilk_c_reducer_min_identity_unsigned;
cilk_c_reducer_min_identity_ushort;
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cilk_c_reducer_min_index_identity_int;
cilk_c_reducer_min_index_identity_long;
cilk_c_reducer_min_index_identity_longdouble;
cilk_c_reducer_min_index_identity_longlong;
cilk_c_reducer_min_index_identity_schar;
cilk_c_reducer_min_index_identity_short;
cilk_c_reducer_min_index_identity_uchar;
cilk_c_reducer_min_index_identity_uint;
cilk_c_reducer_min_index_identity_ulong;
cilk_c_reducer_min_index_identity_ulonglong;
cilk_c_reducer_min_index_identity_unsigned;
cilk_c_reducer_min_index_identity_ushort;
cilk_c_reducer_min_index_identity_wchar_t;
cilk_c_reducer_min_index_reduce_char;
cilk_c_reducer_min_index_reduce_double;
cilk_c_reducer_min_index_reduce_float;
cilk_c_reducer_min_index_reduce_int;
cilk_c_reducer_min_index_reduce_long;
cilk_c_reducer_min_index_reduce_longdouble;
cilk_c_reducer_min_index_reduce_longlong;
cilk_c_reducer_min_index_reduce_schar;
cilk_c_reducer_min_index_reduce_short;
cilk_c_reducer_min_index_reduce_uchar;
cilk_c_reducer_min_index_reduce_uint;
cilk_c_reducer_min_index_reduce_ulong;
cilk_c_reducer_min_index_reduce_ulonglong;
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cilk_c_reducer_min_index_reduce_ushort;
cilk_c_reducer_min_index_reduce_wchar_t;
cilk_c_reducer_min_reduce_char;
cilk_c_reducer_min_reduce_double;
cilk_c_reducer_min_reduce_float;

```

```

cilk_c_reducer_min_reduce_int;
cilk_c_reducer_min_reduce_long;
cilk_c_reducer_min_reduce_longdouble;
cilk_c_reducer_min_reduce_longlong;
cilk_c_reducer_min_reduce_schar;
cilk_c_reducer_min_reduce_short;
cilk_c_reducer_min_reduce_uchar;
cilk_c_reducer_min_reduce_uint;
cilk_c_reducer_min_reduce_ulong;
cilk_c_reducer_min_reduce_ulonglong;
cilk_c_reducer_min_reduce_unsigned;
cilk_c_reducer_min_reduce_ushort;
cilk_c_reducer_min_reduce_wchar_t;
cilk_c_reducer_opadd_identity_char;
cilk_c_reducer_opadd_identity_double;
cilk_c_reducer_opadd_identity_float;
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cilk_c_reducer_opadd_reduce_short;
cilk_c_reducer_opadd_reduce_uchar;
cilk_c_reducer_opadd_reduce_uint;
cilk_c_reducer_opadd_reduce_ulong;
cilk_c_reducer_opadd_reduce_ulonglong;
cilk_c_reducer_opadd_reduce_unsigned;
cilk_c_reducer_opadd_reduce_ushort;
cilk_c_reducer_opadd_reduce_wchar_t;
cilk_c_reducer_opand_identity_char;
cilk_c_reducer_opand_identity_int;
cilk_c_reducer_opand_identity_long;

```

cilk\_c\_reducer\_opand\_identity\_longlong;  
cilk\_c\_reducer\_opand\_identity\_schar;  
cilk\_c\_reducer\_opand\_identity\_short;  
cilk\_c\_reducer\_opand\_identity\_uchar;  
cilk\_c\_reducer\_opand\_identity\_uint;  
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cilk\_c\_reducer\_opand\_identity\_ulonglong;  
cilk\_c\_reducer\_opand\_identity\_unsigned;  
cilk\_c\_reducer\_opand\_identity\_ushort;  
cilk\_c\_reducer\_opand\_identity\_wchar\_t;  
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cilk\_c\_reducer\_opand\_reduce\_long;  
cilk\_c\_reducer\_opand\_reduce\_longlong;  
cilk\_c\_reducer\_opand\_reduce\_schar;  
cilk\_c\_reducer\_opand\_reduce\_short;  
cilk\_c\_reducer\_opand\_reduce\_uchar;  
cilk\_c\_reducer\_opand\_reduce\_uint;  
cilk\_c\_reducer\_opand\_reduce\_ulong;  
cilk\_c\_reducer\_opand\_reduce\_ulonglong;  
cilk\_c\_reducer\_opand\_reduce\_unsigned;  
cilk\_c\_reducer\_opand\_reduce\_ushort;  
cilk\_c\_reducer\_opand\_reduce\_wchar\_t;  
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cilk\_c\_reducer\_opmul\_identity\_double;  
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cilk\_c\_reducer\_opmul\_identity\_ulonglong;  
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cilk\_c\_reducer\_opmul\_identity\_ushort;  
cilk\_c\_reducer\_opmul\_identity\_wchar\_t;  
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cilk\_c\_reducer\_opmul\_reduce\_double;  
cilk\_c\_reducer\_opmul\_reduce\_float;  
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cilk\_c\_reducer\_opmul\_reduce\_longdouble;  
cilk\_c\_reducer\_opmul\_reduce\_longlong;  
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cilk\_c\_reducer\_opmul\_reduce\_short;

cilk\_c\_reducer\_opmul\_reduce\_uchar;  
cilk\_c\_reducer\_opmul\_reduce\_uint;  
cilk\_c\_reducer\_opmul\_reduce\_ulong;  
cilk\_c\_reducer\_opmul\_reduce\_ulonglong;  
cilk\_c\_reducer\_opmul\_reduce\_unsigned;  
cilk\_c\_reducer\_opmul\_reduce\_ushort;  
cilk\_c\_reducer\_opmul\_reduce\_wchar\_t;  
cilk\_c\_reducer\_opor\_identity\_char;  
cilk\_c\_reducer\_opor\_identity\_int;  
cilk\_c\_reducer\_opor\_identity\_long;  
cilk\_c\_reducer\_opor\_identity\_longlong;  
cilk\_c\_reducer\_opor\_identity\_schar;  
cilk\_c\_reducer\_opor\_identity\_short;  
cilk\_c\_reducer\_opor\_identity\_uchar;  
cilk\_c\_reducer\_opor\_identity\_uint;  
cilk\_c\_reducer\_opor\_identity\_ulong;  
cilk\_c\_reducer\_opor\_identity\_ulonglong;  
cilk\_c\_reducer\_opor\_identity\_unsigned;  
cilk\_c\_reducer\_opor\_identity\_ushort;  
cilk\_c\_reducer\_opor\_identity\_wchar\_t;  
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cilk\_c\_reducer\_opor\_reduce\_int;  
cilk\_c\_reducer\_opor\_reduce\_long;  
cilk\_c\_reducer\_opor\_reduce\_longlong;  
cilk\_c\_reducer\_opor\_reduce\_schar;  
cilk\_c\_reducer\_opor\_reduce\_short;  
cilk\_c\_reducer\_opor\_reduce\_uchar;  
cilk\_c\_reducer\_opor\_reduce\_uint;  
cilk\_c\_reducer\_opor\_reduce\_ulong;  
cilk\_c\_reducer\_opor\_reduce\_ulonglong;  
cilk\_c\_reducer\_opor\_reduce\_unsigned;  
cilk\_c\_reducer\_opor\_reduce\_ushort;  
cilk\_c\_reducer\_opor\_reduce\_wchar\_t;  
cilk\_c\_reducer\_opxor\_identity\_char;  
cilk\_c\_reducer\_opxor\_identity\_int;  
cilk\_c\_reducer\_opxor\_identity\_long;  
cilk\_c\_reducer\_opxor\_identity\_longlong;  
cilk\_c\_reducer\_opxor\_identity\_schar;  
cilk\_c\_reducer\_opxor\_identity\_short;  
cilk\_c\_reducer\_opxor\_identity\_uchar;  
cilk\_c\_reducer\_opxor\_identity\_uint;  
cilk\_c\_reducer\_opxor\_identity\_ulong;  
cilk\_c\_reducer\_opxor\_identity\_ulonglong;  
cilk\_c\_reducer\_opxor\_identity\_unsigned;  
cilk\_c\_reducer\_opxor\_identity\_ushort;  
cilk\_c\_reducer\_opxor\_identity\_wchar\_t;  
cilk\_c\_reducer\_opxor\_reduce\_char;  
cilk\_c\_reducer\_opxor\_reduce\_int;

```

cilk_c_reducer_opxor_reduce_long;
cilk_c_reducer_opxor_reduce_longlong;
cilk_c_reducer_opxor_reduce_schar;
cilk_c_reducer_opxor_reduce_short;
cilk_c_reducer_opxor_reduce_uchar;
cilk_c_reducer_opxor_reduce_uint;
cilk_c_reducer_opxor_reduce_ulong;
cilk_c_reducer_opxor_reduce_ulonglong;
cilk_c_reducer_opxor_reduce_unsigned;
cilk_c_reducer_opxor_reduce_ushort;
cilk_c_reducer_opxor_reduce_wchar_t;
};

```

Found in path(s):

\* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/linux-symbols.ver

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/\*\* common.h

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```

```

/* global_state.cpp          -*-C++-*-
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/\*

\* sysdep-unix.c

\*

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\* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/sysdep-unix.c  
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/\* bug.h            -\*.C++-\*-

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/\* cilk\_fiber-unix.cpp -\*-C++-\*-

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/\* signal\_node.c -\*-C-\*

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- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/include/cilk/reducer\_file.h
- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/include/cilk/hyperobject\_base.h
- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/include/cilk/cilk\_api\_linux.h

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* ignore_handler_s.c
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* 2012, Jonathan Toppins <jtoppins@users.sourceforge.net>
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\* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/sslib/ignore\_handler\_s.c

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```

/*-----
* safe_lib_errno.h -- Safe C Lib Error codes
*
* October 2008, Bo Berry
* Modified 2012, Jonathan Toppins <jtoppins@users.sourceforge.net>
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```

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/\*-----

\* printf\_s.h -- Safe Printf Interfaces

\*

\* August 2014, D Wheeler

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/\*-----

\* safe\_types.h - C99 std types & defs or Linux kernel equivalents  
 \*  
 \* March 2007, Bo Berry  
 \* Modified 2012, Jonathan Toppins <[jtoppins@users.sourceforge.net](mailto:jtoppins@users.sourceforge.net)>

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/\* cilk\_malloc.h            \*-C++-\*

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\* strncpy\_s.c

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\* October 2008, Bo Berry

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/\* pedigrees.c            \_\*-C-\*\_

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```

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```

/* lock_guard.h          -*-C++-*-
*
* *****
*

```

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\* \*\*\*\*\*

\*

\* Lock guard patterned after the `std::lock_guard` class template proposed in  
 \* the C++ 0x draft standard.

```

*
* An object of type lock_guard controls the ownership of a mutex object
* within a scope. A lock_guard object maintains ownership of a mutex object
* throughout the lock_guard object's lifetime. The behavior of a program is
* undefined if the mutex referenced by pm does not exist for the entire
* lifetime of the lock_guard object.
*/

```

Found in path(s):

```

* /opt/cola/permits/1399044488_1677943942.9549632/0/libcilkrts-zip/libcilkrts/include/cilktools/lock_guard.h

```

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```

/* os-unix.c          -*-C-*-
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*****
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```
/* local_state.c          -*-C++-*-
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/\* except.h -\*-C++-\*-

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/\* metaprogramming.h                    -\*- C++ -\*-

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/\* reducer\_opadd.h -\*- C++ -\*-

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/\*-----

\* snprintf\_support.c

\*

\* August 2014, D Wheeler

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- \*/

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```
#
```

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

```
#
```

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```

```
#
```

```
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```

```
# Disable Cilk Runtime library for unsupported architectures.
```

```
case "${target}" in
i?86-*-* | x86_64-*-*)
;;
arm-*-*)
;;
sparc*-*-*)
;;
*-*-* )
    UNSUPPORTED=1
;;
esac
```

```
# Disable libcilkrt on non POSIX hosted systems.
```

```
. ${sourcedir}/../config/target-posix
```

```
Found in path(s):
```

```
* /opt/cola/permits/1399044488_1677943942.9549632/0/libcilkrt-zip/libcilkrt/configure.tgt
```

```
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```

```
/* except-gcc.h          *-C++*-
```

```
*
```

```
*****
```

```
*
```

```
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```

/*-----
* safe_str_lib.h -- Safe C Library String APIs
*
* October 2008, Bo Berry
*
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*/

```

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\* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/sslib/safe\_str\_lib.h

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```

/* cilk-tbb-interop.h          -*-C++-*-
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```

* /opt/cola/permits/1399044488_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/cilk-tbb-interop.h

```

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/\* pedigrees.h                    -\*-C++-\*  
 \*

```

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```
/* worker_mutex.h          -*-C++-*-
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/\* os-unix-sysdep.c                    -\*C-\*

\*

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- \* This file contains generic implementations of system-specific code for
- \* Unix-based systems
- \*/

Found in path(s):

- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/config/generic/os-unix-sysdep.c
- \* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/config/arm/os-unix-sysdep.c

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/\* reducer\_ostream.h                -\*- C++ -\*-

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AC\_INIT([Cilk Runtime Library], [2.0], [cilk@intel.com])

AC\_PREREQ([2.64])

# Needed to define \${target}. Needs to be very early to avoid annoying  
# warning about calling AC\_ARG\_PROGRAM before AC\_CANONICAL\_SYSTEM  
AC\_CANONICAL\_SYSTEM  
target\_alias=\${target\_alias-\$host\_alias}  
AC\_SUBST(target\_alias)

AM\_INIT\_AUTOMAKE(foreign no-dist)

AM\_MAINTAINER\_MODE

AM\_ENABLE\_MULTILIB(, ..)

# Test for GNU extensions. Will define \_GNU\_SOURCE if they're available  
AC\_USE\_SYSTEM\_EXTENSIONS

# Build a DLL on Windows  
# AC\_LIBTOOL\_WIN32\_DLL  
AC\_PROG\_CC  
AC\_PROG\_CXX  
# AC\_PROG\_LIBTOOL



```

# AC_CONFIG_MACRO_DIR([..])
AC_CONFIG_FILES([Makefile libcilkrts.spec])
AC_FUNC_ALLOCA

# Check for dl functions
AC_CHECK_LIB(dl, dladdr,
    [AC_DEFINE(HAVE_DLADDR, 1, [Define if you have dladdr()])])

# Check whether the target supports protected visibility.
save_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS -Werror"
AC_TRY_COMPILE([void __attribute__((visibility("protected"))) foo(void) { }],
    [], libcilkrts_cv_have_attribute_visibility=yes,
    libcilkrts_cv_have_attribute_visibility=no)
CFLAGS="$save_CFLAGS"
if test $libcilkrts_cv_have_attribute_visibility = yes; then
    AC_DEFINE(HAVE_ATTRIBUTE_VISIBILITY, 1,
        [Define to 1 if the target supports __attribute__((visibility(...))).])
fi

# Get target configury.
. ${srcdir}/configure.tgt
if test -n "$UNSUPPORTED"; then
    AC_MSG_ERROR([Configuration ${target} is unsupported.])
fi

if test "${multilib}" = "yes"; then
    multilib_arg="--enable-multilib"
else
    multilib_arg=
fi

AC_MSG_CHECKING([for --enable-version-specific-runtime-libs])
AC_ARG_ENABLE([version-specific-runtime-libs],
    AC_HELP_STRING([--enable-version-specific-runtime-libs],
        [Specify that runtime libraries should be installed in a compiler-specific directory]),
    [case "$enableval" in
        yes) enable_version_specific_runtime_libs=yes ;;
        no) enable_version_specific_runtime_libs=no ;;
        *) AC_MSG_ERROR([Unknown argument to enable/disable version-specific libs]) ;;
    esac],
    [enable_version_specific_runtime_libs=no])
AC_MSG_RESULT($enable_version_specific_runtime_libs)

# Calculate toolexeclibdir

```

```

# Also toolexecdir, though it's only used in toolexeclibdir
case ${enable_version_specific_runtime_libs} in
yes)
# Need the gcc compiler version to know where to install libraries
# and header files if --enable-version-specific-runtime-lib option
# is selected.
toolexecdir='${libdir}/gcc/${target_alias}'
toolexeclibdir='${toolexecdir}/${gcc_version}${MULTISUBDIR}'
;;
no)
if test -n "$with_cross_host" &&
test x"$with_cross_host" != x"no"; then
# Install a library built with a cross compiler in tooldir, not libdir.
toolexecdir='${exec_prefix}/${target_alias}'
toolexeclibdir='${toolexecdir}/lib'
else
toolexecdir='${libdir}/gcc-lib/${target_alias}'
toolexeclibdir='${libdir}'
fi
multi_os_directory=`$CC -print-multi-os-directory`
case $multi_os_directory in
.) ;; # Avoid trailing /.
*) toolexeclibdir=$toolexeclibdir/$multi_os_directory ;;
esac
;;
esac

# Set config_dir based on the target. config_dir specifies where to get
# target-specific files. The generic implementation is incomplete, but
# contains information on what's needed
case "${target}" in

i?86-*-* | x86_64-*-*)
config_dir="x86"
;;

arm-*-*)
config_dir="arm"
;;

sparc-*-*)
config_dir="sparc"
;;

*)
config_dir="generic"
;;

```

```

esac
AC_SUBST(config_dir)

# We have linker scripts for appropriate operating systems
linux_linker_script=no
case "${host}" in
    *-*-linux*)
        linux_linker_script=yes
        ;;
esac
AM_CONDITIONAL(LINUX_LINKER_SCRIPT, test "$linux_linker_script" = "yes")

mac_linker_script=no
case "${host}" in
    *-*-apple*)
        mac_linker_script=yes
        ;;
esac
AM_CONDITIONAL(MAC_LINKER_SCRIPT, test "$mac_linker_script" = "yes")

AC_LIBTOOL_DLOPEN
AM_PROG_LIBTOOL
AC_SUBST(toolexecdir)
AC_SUBST(toolexeclibdir)

AC_SUBST(lt_cv_dlopen_libs)

# Check to see if -pthread or -lpthread is needed. Prefer the former.
# Note that the CILK_SELF_SPEC in gcc.c may force -pthread.
# In case the pthread.h system header is not found, this test will fail.
XCFLAGS=""
XLDFLAGS=""
CFLAGS="$CFLAGS -pthread"
AC_LINK_IFELSE(
[AC_LANG_PROGRAM(
[#include <pthread.h>
void *g(void *d) { return NULL; }],
[pthread_t t; pthread_create(&t,NULL,g,NULL);]],
[XCFLAGS=" -Wc,-pthread"],
[CFLAGS="$save_CFLAGS" LIBS="-lpthread $LIBS"]
AC_LINK_IFELSE(
[AC_LANG_PROGRAM(
[#include <pthread.h>
void *g(void *d) { return NULL; }],
[pthread_t t; pthread_create(&t,NULL,g,NULL);]],
[],
[AC_MSG_ERROR([Pthreads are required to build libcilkrts])]))

```

```

# Check for pthread_{,attr_}[sg]etaffinity_np.
AC_LINK_IFELSE(
[AC_LANG_PROGRAM(
[#include <pthread.h>],
[cpu_set_t cpuset;
pthread_attr_t attr;
pthread_getaffinity_np (pthread_self (), sizeof (cpu_set_t), &cpuset);
if (CPU_ISSET (0, &cpuset))
    CPU_SET (1, &cpuset);
else
    CPU_ZERO (&cpuset);
pthread_setaffinity_np (pthread_self (), sizeof (cpu_set_t), &cpuset);
pthread_attr_init (&attr);
pthread_attr_getaffinity_np (&attr, sizeof (cpu_set_t), &cpuset);
pthread_attr_setaffinity_np (&attr, sizeof (cpu_set_t), &cpuset);]],
AC_DEFINE(HAVE_PTHREAD_AFFINITY_NP, 1,
[    Define if pthread_{,attr_}{g,s}etaffinity_np is supported.]))

# Every c++ lib is linking by default with -nostdlib, which leads to the
# fact, that proper pthread library will not be given at link time. We have
# to hard-code that.
case "${target}" in

*android*)
    XLDFLAGS="$XLDFLAGS -lc"
    ;;
*)
    XLDFLAGS="$XLDFLAGS -lpthread"
    ;;

esac

AC_SUBST(XCFLAGS)
AC_SUBST(XLDFLAGS)

CFLAGS="$save_CFLAGS"

if test $enable_shared = yes; then
    link_cilkrts="-lcilkrts %{static: $LIBS}"
else
    link_cilkrts="-lcilkrts $LIBS"
fi
AC_SUBST(link_cilkrts)

# Determine what GCC version number to use in filesystem paths.
GCC_BASE_VER

# Must be last

```

## AC\_OUTPUT

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```
/* fake_mutex.h          -*-C++-*-  
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\* Cilkscreen fake mutexes are provided to indicate to the Cilkscreen race  
\* detector that a race should be ignored.

\* NOTE: This class does not provide mutual exclusion. You should use the  
\* mutual exclusion constructs provided by TBB or your operating system to  
\* protect against real data races.

\*/

Found in path(s):

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/\* cilk\_str\_mem.h -\*-C-\*

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/\* cilk\_fiber.cpp -\*-C++-\*-

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/* sysdep.h          -*-C++-*-

```

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```

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```

```

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/\* frame\_malloc.c            -\*-C-\*-

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/\*-----

\* strlen\_s.c

\*

\* October 2008, Bo Berry

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/\* spin\_mutex.h            \*-C++-\*

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/\* local\_state.h            -\*-C++-\*

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 \* safe\_str\_constraint.c  
 \*

\* October 2008, Bo Berry  
 \* 2012, Jonathan Toppins <jtoppins@users.sourceforge.net>  
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/\* record\_replay.h                    -\*C++-\*

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/\* jmpbuf.h -\*-C++-\*-

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Found in path(s):
* /opt/cola/permits/1399044488_1677943942.9549632/0/libcilkrts-zip/libcilkrts/runtime/config/sparc/os-fence.h

```

\* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrtt-zip/libcilkrtt/runtime/config/generic/os-fence.h  
\* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrtt-zip/libcilkrtt/runtime/config/x86/os-fence.h  
\* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrtt-zip/libcilkrtt/runtime/config/arm/os-fence.h  
\* /opt/cola/permits/1399044488\_1677943942.9549632/0/libcilkrtt-zip/libcilkrtt/runtime/os.h

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```
/*-----  
* safeclib_private.h - Internal library references  
*  
* 2012, Jonathan Toppins <jtoppins@users.sourceforge.net>  
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```
/* c_reducers.c          *-C-*  
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```

* strcpy_s.c
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```
* /opt/cola/permits/1399044488_1677943942.9549632/0/libcilkrts-zip/libcilkrts/include/cilk/cilk_stub.h
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* *****
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/\* reducer\_opand.h -\*- C++ -\*-

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* /opt/cola/permits/1399044488_1677943942.9549632/0/libcilkrts-zip/libcilkrts/include/cilk/reducer_opand.h
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```

/* scheduler.c          -*-C-*-

```

```

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```
/*-----  
* safe_lib.h -- Safe C Library  
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* Modified 2012, Jonathan Toppins <jtoppins@users.sourceforge.net>  
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## 1.334 pycparser 2.21

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pycparser -- A C parser in Python

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## 1.337 requests-oauthlib 1.3.1

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Upstream-Name: libmnl

Upstream-Contact: Pablo Neira Ayuso <pablo@netfilter.org>

Source: <http://www.netfilter.org/projects/libmnl/files>

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```
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```

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```
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```

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This package was put together by Matthias Klose <doko@debian.org>.

Upstream source:  
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Author: Per Bothner

Copyright:

```
/* A front-end using readline to "cook" input lines for Kawa.
*
```

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

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winsup\cygserver\sysv\_shm.cc

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Version 2, June 1991

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## Preamble

=====

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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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