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Contents

1.1 grub 0.97

1.1.1 Available under license

1.2 nss-ldap 265

1.2.1 Available under license

1.3 libdbus++ 0.9.0

1.3.1 Available under license

1.4 apr-util 1.6.1

1.4.1 Available under license

1.5 libmnl 1.0.4

1.5.1 Available under license

1.6 rsync 3.1.3

1.6.1 Available under license

1.7 zlib 1.2.11

1.7.1 Available under license

1.8 diffutils 3.7

1.8.1 Available under license

1.9 netifaces 0.10.9

1.9.1 Available under license

1.10 gzip 1.10

1.10.1 Available under license

1.11 bzip2 1.0.8

1.12 dmidecode 3.3

1.12.1 Available under license

1.13 net-tools 1.60

1.13.1 Available under license

1.14 dpkg 1.19.7

1.14.1 Available under license

1.15 libsrtp v2.0.0

1.15.1 Available under license

1.16 rfc1008 0.5

1.16.1 Available under license

1.17 libevent 2.1.10

1.17.1 Available under license

1.18 apr 1.7.0

1.18.1 Available under license

1.19 cyrus-sasl 2.1.27

1.19.1 Available under license

1.20 pam 1.3.1

1.20.1 Available under license

1.21 libxslt 1.1.34

1.21.1 Available under license

1.22 cracklib 2.9.7

1.22.1 Available under license

1.23 zope-deprecation 4.4.0

1.23.1 Available under license

1.24 importlib-metadata 1.5.0

1.24.1 Available under license

1.25 dns-python 1.16.0

1.25.1 Available under license

1.26 automat 20.2.0

1.26.1 Available under license

1.27 shadow 4.8.1

1.27.1 Available under license

1.28 libffi 3.3

1.28.1 Available under license

1.29 xmlsecurityfor++ 2.0.2

1.29.1 Available under license

1.30 acpid 2.0.32

1.30.1 Available under license

1.31 tcl 8.6.9

1.31.1 Available under license

1.32 coreutils 8.32

1.32.1 Available under license

1.33 sed 4.8

1.33.1 Available under license

1.34 xmltooling 3.0.4

1.34.1 Available under license

1.35 python 2.7.18

1.35.1 Available under license

1.36 libuv v1.9.1

1.36.1 Available under license

1.37 ntp 4.2.8p15

1.37.1 Available under license

1.38 enum34 1.1.10

1.38.1 Available under license

1.39 gawk 5.1.0

1.39.1 Available under license

1.40 iptables 1.8.5

1.40.1 Available under license

1.41 xerces-c 3.2.3

1.41.1 Available under license

1.42 icu 65.1

1.42.1 Available under license

1.43 python-pycrypto 2.7a1

1.43.1 Available under license

1.44 traceroute 2.1.0

1.44.1 Available under license

1.45 popt 1.18

1.45.1 Available under license

1.46 pkix-ssh 12.1

1.46.1 Available under license

1.47 openssh 8.0-p1

1.47.1 Available under license

1.48 time-zone 2020a

1.48.1 Available under license

1.49 opensaml 3.0.0

1.49.1 Available under license

1.50 pyasn1-modules 0.2.8

1.50.1 Available under license

1.51 python-tubes 0.2.0

1.51.1 Available under license

1.52 python-dbus 1.2.16

1.52.1 Available under license

1.53 python-ujson 2.0.3

- 1.53.1 Available under license
- 1.54 python-werkzeug 1.0.1**
 - 1.54.1 Available under license
- 1.55 python-cryptography 2.1.4**
 - 1.55.1 Available under license
- 1.56 pycurl 7.43.0.2**
 - 1.56.1 Available under license
- 1.57 zope-interface 5.1.0**
 - 1.57.1 Available under license
- 1.58 python-pystatsd 3.3**
 - 1.58.1 Available under license
- 1.59 log4erl 0.9.0**
 - 1.59.1 Available under license
- 1.60 pyrsistent 0.16.0**
 - 1.60.1 Available under license
- 1.61 daslr 20150612**
 - 1.61.1 Available under license
- 1.62 python-pyopenssl 19.1.0**
 - 1.62.1 Available under license
- 1.63 python-webpy 0.36**
 - 1.63.1 Available under license
- 1.64 python-setuptools 46.1.3**
 - 1.64.1 Available under license
- 1.65 python-pycpuid 0.4**
 - 1.65.1 Available under license
- 1.66 gch 0.1**
 - 1.66.1 Available under license
- 1.67 python-klein 20.6.0**
 - 1.67.1 Available under license
- 1.68 ciscossl-fom 6.2a.201703281752**
 - 1.68.1 Available under license
- 1.69 python-pysnmp 4.4.12**
 - 1.69.1 Available under license
- 1.70 python-pyparsing 2.4.7**
 - 1.70.1 Available under license
- 1.71 python-configobj 5.0.6**
 - 1.71.1 Available under license
- 1.72 fail2ban 0.8.14**
 - 1.72.1 Available under license

1.73 python-ndg-httpsclient 0.5.1

1.73.1 Available under license

1.74 python-mox 0.5.3

1.74.1 Available under license

1.75 python-peewee 2.10.2

1.75.1 Available under license

1.76 python-ipaddr 2.2.0

1.76.1 Available under license

1.77 linux-firmware 9c71af9

1.77.1 Available under license

1.78 pam-ldap 186

1.78.1 Available under license

1.79 python-pyinotify 0.9.6

1.79.1 Available under license

1.80 zope-event 4.4

1.80.1 Available under license

1.81 python-pyobject 2.28.6

1.81.1 Available under license

1.82 stringencoders 3.10.3

1.82.1 Available under license

1.83 megactl 0.4.1

1.83.1 Available under license

1.84 python-websocket_client 0.57.0

1.84.1 Available under license

1.85 pythonurllib 1.25.9

1.85.1 Available under license

1.86 vlan 1.9

1.86.1 Available under license

1.87 cpp 7.5.0

1.87.1 Available under license

1.88 open-vm-tools 11.1.5-16724464

1.88.1 Available under license

1.89 valgrind 3.16.1

1.89.1 Available under license

1.90 gettext 0.21

1.90.1 Available under license

1.91 readline 8.1

1.91.1 Available under license

1.92 appdirs 1.4.4

1.92.1 Available under license

1.93 functools32 3.2.3-2

1.93.1 Available under license

1.94 suds 0.4

1.94.1 Available under license

1.95 ip-address 1.0.23

1.95.1 Available under license

1.96 pyrfc3339 1.1

1.96.1 Available under license

1.97 six 1.11.0

1.97.1 Available under license

1.98 httplib 0.10.3

1.98.1 Available under license

1.99 zope-event 4.5.0

1.99.1 Available under license

1.100 udev 167

1.100.1 Available under license

1.101 c-ares 1.17.1

1.101.1 Available under license

1.102 inotify-tools 3.20.11.0

1.102.1 Available under license

1.103 d-bus 1.13.18

1.103.1 Available under license

1.104 ifupdown 0.8.35

1.104.1 Available under license

1.105 nghttp2 1.43.0

1.105.1 Available under license

1.106 xml-security-c 2.0.2

1.106.1 Available under license

1.107 iana-etc 2.30

1.107.1 Available under license

1.108 sslh 1.21c

1.108.1 Available under license

1.109 mod-authnz-external 3.3.3

1.109.1 Available under license

1.110 log4shib 1.0.9

1.110.1 Available under license

1.111 libstatsd-cpp 0.0

1.111.1 Available under license

1.112 ooid 0.999

1.112.1 Available under license

1.113 unzip 60

1.113.1 Available under license

1.114 less 563

1.114.1 Available under license

1.115 smartmontools 7.2

1.115.1 Available under license

1.116 Isof 4.94.0

1.116.1 Available under license

1.117 ed 1.17

1.117.1 Available under license

1.118 ldb 1.2.840

1.118.1 Available under license

1.119 psmisc 23.4

1.119.1 Available under license

1.120 wget 1.21.1

1.120.1 Available under license

1.121 sysv-init 2.90

1.121.1 Available under license

1.122 log-rotate 3.18.0

1.122.1 Available under license

1.123 glibc 2.33

1.123.1 Available under license

1.124 libevdev 1.5.8

1.124.1 Available under license

1.125 libedit 20170329-3.1

1.125.1 Available under license

1.126 json-c 0.15-20200726

1.126.1 Available under license

1.127 python-hyperlink 21.0.0

1.127.1 Available under license

1.128 tzcode 2021a

1.128.1 Available under license

1.129 collectd 5.12.0

1.129.1 Available under license

1.130 htop 3.0.5

1.130.1 Available under license

1.131 pciutils 3.7.0

1.131.1 Available under license

1.132 findutils 4.8.0

1.132.1 Available under license

1.133 grep 3.6

1.133.1 Available under license

1.134 bash 5.1

1.134.1 Available under license

1.135 smem 1.5

1.135.1 Available under license

1.136 tzdata 2021a

1.136.1 Available under license

1.137 libnsl 1.3.0

1.137.1 Available under license

1.138 pcre 8.44

1.138.1 Available under license

1.139 log4cxx 0.11.0

1.139.1 Available under license

1.140 coverage 5.5

1.140.1 Available under license

1.141 procps 3.3.17

1.141.1 Available under license

1.142 sqlite 3.35.3

1.142.1 Available under license

1.143 pyinotify 0.9.6

1.143.1 Available under license

1.144 zope-interface 5.4.0

1.144.1 Available under license

1.145 lxml 4.6.3

1.145.1 Available under license

1.146 service-identity 18.1.0

1.146.1 Available under license

1.147 incremental 21.3.0

1.147.1 Available under license

1.148 click 7.1.2

1.148.1 Available under license

1.149 requests-toolbelt 0.9.1

1.149.1 Available under license

1.150 cffi 1.14.5

1.150.1 Available under license

1.151 websocket-client 0.37.0

1.151.1 Available under license

1.152 mock 1.0.1

1.152.1 Available under license

1.153 iputils 20210202

1.153.1 Available under license

1.154 attrs 21.2.0

1.154.1 Available under license

1.155 strace 5.12

1.155.1 Available under license

1.156 pytz 2021.1

1.156.1 Available under license

1.157 python-pip 19.2.3

1.157.1 Available under license

1.158 python-ldap 3.3.1

1.158.1 Available under license

1.159 typing 3.7.4.1

1.159.1 Available under license

1.160 curl 7.77.0

1.160.1 Available under license

1.161 characteristic 14.3.0

1.161.1 Available under license

1.162 certbot 1.12.0

1.162.1 Available under license

1.163 pyratemp 0.3.2

1.163.1 Available under license

1.164 zope.deferredimport 4.3.1

1.164.1 Available under license

1.165 twisted 16.6.0

1.165.1 Available under license

1.166 dnsmasq 2.85

1.166.1 Available under license

1.167 bidict 0.18.3

1.167.1 Available under license

1.168 file 5.40

1.168.1 Available under license

1.169 e2fsprogs 1.46.2

1.169.1 Available under license

1.170 acme 1.12.0

1.170.1 Available under license
1.171 websocket-client 0.46.0
1.171.1 Available under license
1.172 zope.proxy 4.3.5
1.172.1 Available under license
1.173 josepy 1.7.0
1.173.1 Available under license
1.174 python-certifi 2021.5.30
1.174.1 Available under license
1.175 tar 1.34
1.175.1 Available under license
1.176 python-httpplib2 0.19.1
1.176.1 Available under license
1.177 python-lxml 4.6.3
1.177.1 Available under license
1.178 sysfsutils 2.1.1
1.178.1 Available under license
1.179 openssl 6.2.403
1.179.1 Available under license
1.180 kerberos 1.19.1
1.180.1 Available under license
1.181 vim 8.2.0821
1.182 eudev 3.2.10
1.182.1 Available under license
1.183 deprecated 1.2.12
1.183.1 Available under license
1.184 expat 2.4.1
1.184.1 Available under license
1.185 pyparsing 2.4.7-1.ph4
1.185.1 Available under license
1.186 pyyaml 5.4.1-1.ph4
1.186.1 Available under license
1.187 pyasn1 0.4.8-1.ph4
1.187.1 Available under license
1.188 subprocess32 3.5.4-2.ph4
1.188.1 Available under license
1.189 pyopenssl 19.1.0-2.ph4
1.189.1 Available under license
1.190 pyasn1-modules 0.2.8-1.ph4

1.190.1 Available under license
1.191 idna 2.10-1.ph4
1.191.1 Available under license
1.192 ndg-httpsclient 0.5.1-4.ph4
1.192.1 Available under license
1.193 constantly 15.1.0-3.ph4
1.193.1 Available under license
1.194 pycparser 2.20-1.ph4
1.194.1 Available under license
1.195 urllib3 1.26.6
1.195.1 Available under license
1.196 net-snmp 5.9.1
1.196.1 Available under license
1.197 jwcrypto 0.9.1
1.197.1 Available under license
1.198 python-requests 2.26.0
1.198.1 Available under license
1.199 thrift 0.14.2
1.199.1 Available under license
1.200 hd-parm 9.62
1.200.1 Available under license
1.201 sysstat 12.5.4
1.201.1 Available under license
1.202 libpcap 1.10.1
1.202.1 Available under license
1.203 apache-http-server 2.4.48
1.203.1 Available under license
1.204 gnutls 3.7.2
1.204.1 Available under license
1.205 parsedatetime 2.6
1.205.1 Available under license
1.206 samba 4.14.5
1.206.1 Available under license
1.207 libidn 1.37
1.207.1 Available under license
1.208 erlang-otp 23.3.4.4
1.208.1 Available under license
1.209 python-parsedatetime 2.6
1.209.1 Available under license

1.210 freeipmi 1.6.8

1.210.1 Available under license

1.211 boost 1.76.0

1.211.1 Available under license

1.212 util-linux 2.37

1.212.1 Available under license

1.213 libtirpc 1.3.2

1.213.1 Available under license

1.214 libnettle6 3.7.3

1.214.1 Available under license

1.215 jitterentropy-rngd 1.2.2

1.215.1 Available under license

1.216 tcpdump 4.99.1

1.216.1 Available under license

1.217 dbus-glib 0.112

1.217.1 Available under license

1.218 irqbalance 1.8.0

1.218.1 Available under license

1.219 sdparm 1.12

1.219.1 Available under license

1.220 libnftnl 1.2.0

1.220.1 Available under license

1.221 kmod 29

1.221.1 Available under license

1.222 sudo 1.9.7p1

1.222.1 Available under license

1.223 bind 9.17.15

1.223.1 Available under license

1.224 libcap 2.51

1.224.1 Available under license

1.225 php 7.4.21

1.225.1 Available under license

1.226 configargparse 1.5.1

1.226.1 Available under license

1.227 ethtool 5.13

1.227.1 Available under license

1.228 zope-component 5.0.0

1.228.1 Available under license

1.229 pcre 8.45

1.229.1 Available under license

1.230 iproute 5.13.0

1.230.1 Available under license

1.231 future 0.18.2

1.231.1 Available under license

1.232 zope-hookable 5.1.0

1.232.1 Available under license

1.233 linux-kernel 5.13.2

1.233.1 Available under license

1.234 gdb 10.2

1.234.1 Available under license

1.235 open-ldap 2.4.59

1.235.1 Available under license

1.236 glib 2.69.0

1.236.1 Available under license

1.237 traffic-server 8.1.1

1.237.1 Available under license

1.238 python-packaging 21.0

1.238.1 Available under license

1.239 mochiweb 2.21.0

1.239.1 Available under license

1.240 syslog-ng 3.33.1

1.240.1 Available under license

1.241 libxml 2.9.12

1.241.1 Available under license

1.242 packaging 21.0

1.242.1 Available under license

1.243 defusedxml 0.5.0

1.243.1 Available under license

1.244 ncurses 6.2-20210626

1.244.1 Available under license

1.245 jsonschema 3.2.0

1.245.1 Available under license

1.246 pycparser 2.20

1.246.1 Available under license

1.247 six 1.15.0

1.247.1 Available under license

1.248 chardet 4.0.0

1.248.1 Available under license

1.249 webencodings 0.5.1

1.249.1 Available under license

1.250 example 21.12

1.250.1 Available under license

1.251 libconfig 1.7.3

1.251.1 Available under license

1.252 libnettle6 3.7.3

1.252.1 Available under license

1.1 grub 0.97

1.1.1 Available under license :

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```
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1.2 nss-ldap 265

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1.3 libdbusc++ 0.9.0

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1.4 apr-util 1.6.1

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For the xml\expat\conf\tools\install-sh component:

- #
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1.5 libmnl 1.0.4

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1.6 rsync 3.1.3

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section 10

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1.7 zlib 1.2.11

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.8 diffutils 3.7

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Version 3, 29 June 2007

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1.11 bzip2 1.0.8

1.12 dmidecode 3.3

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1.18 apr 1.7.0

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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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of the ordinary GNU General Public

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^L

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complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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However, linking a "work that uses the Library" with the Library

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

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

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

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

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

^L

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

permitted, and provided that you do these two things:

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

with any other library

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

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

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^L

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

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,

> it was enough to just get it consistent and documented as to what it was

> released under. This wasn't actually a license change, just a

> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysingier
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
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> license
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> unlike the old license, GPL-2 prevents people from using cracklib
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> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional

code, so whatever licensing y'all come up with is fine

> > by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the

> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

```
> >> In any case, I thank you both for working on sorting this out.  
> >  
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?  
>  
> yes. go for it. thanks++
```

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipv6.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])

by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623

for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500

Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])

by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311

for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
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-a

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1.30 acpid 2.0.32

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1.33 sed 4.8

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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1.38 enum34 1.1.10

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1.39 gawk 5.1.0

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the

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- a) Accompany the work with the complete corresponding

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

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

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Version 3, 29 June 2007

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The

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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

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1.40 iptables 1.8.5

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1.41 xerces-c 3.2.3

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1.42 icu 65.1

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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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1.43 python-pycrypto 2.7a1

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Last updated: 2009-02-28

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## 1.54 python-werkzeug 1.0.1

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## 1.55 python-cryptography 2.1.4



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# 1.56 pycurl 7.43.0.2

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Found in path(s):

```

* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-
20150612/daslr_app/src/daslr_app_print.c

```

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

```

/*
*-----
* dASLR Diagnostic Program
*
* File for the diagnostic program used in run-time ASLR verification
*
* The output of this program is expected to be like the following, though the
* individual lines can be in any order.
*
* stac:0xSTACKADDR
* heap:0xHEAPADDR
* Bss:0xBSSADDR
* Data:0xDATAADDR
* text:0xTEXTADDR
* amap:0xANON_MAPADDR
* pths:0xPTHREADSTACKADDR
*
* April 2011
*
* Copyright (c) 2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613684_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/libdaslr/src/diagnostic.c

```

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```

/*
*-----
* dASLR Application Source
*
* April 2011
*
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```



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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1096613684\_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/daslr\_app/src/daslr\_app.c

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/\*

\*-----

\* Result API Function Definitions

\*

\* April 2011

\*

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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1096613684\_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/libdaslr/src/results.c

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/\*

\*-----

\* dASLR Application Header File

\*

\* April 2011

\*

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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1096613684\_1602154110.24/0/daslr-20150612-tar-xz/daslr-

20150612/daslr\_app/include/daslr\_app.h

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/\*

\*-----

\* dASLR Application Printing Routines Header File

\*

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\*

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\*/

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/\*

\*-----

\* dASLR Application Constants Header File

\*

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\*

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\*-----

\*/

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/\*

\*-----

\* libdASLR Header File

\*

\* April 2011

\*

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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1096613684\_1602154110.24/0/daslr-20150612-tar-xz/daslr-20150612/libdaslr/include/daslr.h

# 1.62 python-pyopenssl 19.1.0

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## 1.63 python-webpy 0.36

### 1.63.1 Available under license :

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Metadata-Version: 1.0

Name: web.py

Version: 0.36

Summary: web.py: makes web apps

Home-page: <http://webpy.org/>

Author: Anand Chitipothu

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

License: Public domain

Description: Think about the ideal way to write a web app. Write the code to make it happen.

Platform: any

Found in path(s):

\* /opt/cola/permits/1096613792\_1602229477.67/0/web-py-0-36-1-tar-gz/web.py-0.36/PKG-INFO

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\* /opt/cola/permits/1096613792\_1602229477.67/0/web-py-0-36-1-tar-gz/web.py-0.36/setup.py

## 1.64 python-setuptools 46.1.3

### 1.64.1 Available under license :

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# 1.65 python-pycpuid 0.4

## 1.65.1 Available under license :

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Yoyodyne, Inc., hereby disclaims all copyright interest in the



library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# 1.66 gch 0.1

## 1.66.1 Available under license :

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

```
/*!  
* \file ch_mgr.h  
* \brief define call-home MGR APIs  
*  
* define call-home MGR APIs  
*  
* June 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_mgr.h

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

```
/*!  
* \file ch_lib_debug.h  
* \brief call-home lib debug APIs  
*  
* call-home lib debug APIs  
*  
* June 2015  
*  
* Copyright (c) 2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/include/ch\_lib\_debug.h

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

```
/*!  
* \file ch_ha.h  
* \brief GCH HA infra PI part
```



```

*
* GCH HA infra PI part
*
* April 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

`/opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ha/include/ch_ha.h`

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

```

/*!
* \file ch_lib_sl_dummy.c
* \brief Dummy API for SL, to keep unified code between proc & lib version
*
* Dummy API for SL
*
* July 2016, Qiang Zhou
*
* Copyright (c) 2016 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

`/opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_sl_dummy.c`

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

```

/*!
* \file ch_ipc.h
* \brief GCH ipc subsystem APIs
*
* GCH ipc subsystem APIs
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

`/opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch_ipc.h`

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

```

/*!
* \file ch_lib_sl.c
* \brief GCH ipc sl client instance

```



```

*
* GCH ipc sl client instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_sl.c

```

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

```

/*!
* \file call_home_ds_global.h
* \brief DS global definitions
*
* DS global definitions
*
* November 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_global.h

```

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

```

/*!
* \file ch_lib_event.c
* \brief GCH event client instance
*
* GCH event client instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_event.c

```

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

```

/*!
* \file ch_build_text_msg.c

```



\* \brief Provide implementation to build short/long text msg

\*

\* Provide implementation to build short/long text msg

\*

\* August 2014, Qiang Zhou

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_build\_text\_msg.c

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

/\*!

\* \file call\_home\_ds\_xml\_parser.c

\* \brief Translate update response xml to core database structure

\*

\* Translate update response xml to core database structure

\*

\* May 2011, Chenqi Wang

\*

\* Copyright (c) 2011-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_xml\_parser.c

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

/\*!

\* \file ch\_em\_mgr.h

\* \brief define call-home event-manage MGR APIs

\*

\* define call-home event-manage MGR APIs

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_mgr.h



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

```
/*!  
* \file ch_pf_transport.c  
* \brief Provide http transport APIs  
*  
* Provide http transport APIs  
*  
* June 2014, Qiang Zhou  
*  
* Copyright (c) 2014 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

`/opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_transport.c`

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

```
/*!  
* \file ch_lib_util.c  
* \brief call-home lib utility  
*  
* call-home lib debug/utility  
*  
* Oct 2014  
*  
* Copyright (c) 2014 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

`/opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch_lib_util.c`

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

```
/*!  
* \file ch_db_nvconfig.c  
* \brief Provide APIs to parse/generate XML string for call-home config  
*  
* Provide APIs to parse/generate XML string for call-home config  
*  
* August 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):



\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_db\_nvconfig.c

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

/\*!

\* \file ch\_pf\_nvconfig.c

\* \brief Sample code for call-home nvconfig implementation on PD

\*

\* Sample code for call-home nvconfig implementation on PD

\*

\* December 2014, Qiang Zhou

\*

\* Copyright (c) 2014 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_nvconfig.c

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

/\*!

\* \file ch\_em.h

\* \brief Event manager commonly used definition

\*

\* Event manager commonly used definition

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em.h

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

/\*!

\* \file ch\_pf\_event\_expand.h

\* \brief Provide support for PD event expand part

\*

\* Provide support for PD event expand part

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014 by cisco Systems, Inc.

\* All rights reserved.

\*/



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_event\_expand.h

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

```
/*-----  
* cns_iterator.c - Implementation of the iterator object for the  
*      xml parser.  
*  
* September 2006  
*  
* Copyright (c) 2006-2009, 2015 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/fh\_xml\_iterator.c

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

```
/*!  
* \file ch_client_mgr.h  
* \brief Client MGR header file  
*  
* Client MGR header file  
*  
* August 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_client\_mgr.h

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

```
/*!  
* \file ch_ipc_server_util.h  
* \brief Util APIs for GCH IPC server instance  
*  
* Util APIs for GCH IPC server instance  
*  
* October 2015, Qiang Zhou  
*  
* Copyright (c) 2015 by cisco Systems, Inc.  
* All rights reserved.
```



\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch\_ipc\_server\_util.h

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

/\*!

\* \file ch\_event.h

\* \brief define call-home event related structures

\*

\* define structures for interaction between call-home core and event manager

\*

\* June 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_event.h

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

/\*!

\* \file unsupported\_list

\* \brief

\*

\*

\* December 2014

\*

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\*/

#1. Event detection in script

#2. Event qualifier in script

#3. v1 msg suppression

#4. run command with time limit

#5. run command with expect string

#6. run a single CLI with multiply lines of config in a vty

#7. MSG element

#8. DS periodic update



#9. DS file bring up

#10. DS script

#11. DS to change Event Group actions

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/unsupported\_list

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

/\*!

\* \file ch\_lib\_event.h

\* \brief GCH publish event related library APIs

\*

\* GCH publish event related library APIs

\*

\* July 2014, Qiang Zhou

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_lib\_event.h

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

/\*!

\* \file ch\_lib\_filter\_action\_output.c

\* \brief Provide library API to filter action output

\*

\* Mainly to provide API to filter IOS-like running config

\*

\* November 2014, Qiang Zhou

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch\_lib\_filter\_action\_output.c

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

/\*!

\* \file ch\_lib\_client\_sl.c

\* \brief Provide lib APIs for SL client

\*



\* Provide lib APIs for SL client  
\*  
\* October 2015, Qiang Zhou  
\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch\_lib\_client\_sl.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file call\_home\_ds\_db\_requisite.h  
\* \brief Provide DS pre-requisite and post-requisite related definition  
\*  
\* Provide DS pre-requisite and post-requisite related definition  
\*  
\* March 2014, Diankun Zhang  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_db\_requisite.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file call\_home\_ds\_dnld\_pri.h  
\* \brief Definitions for DS download  
\*  
\* Definitions for DS download  
\*  
\* May 2011, Long Yang  
\*  
\* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_dnld\_pri.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file call\_home\_ds\_debug.h



\* \brief Wrapper layer for DS\_DBG  
\*  
\* Wrapper layer for DS\_DBG  
\*  
\* January 2015, Qiang Zhou  
\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_debug.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_nxos\_ha.c  
\* \brief NXOS HA part  
\*  
\* NXOS HA part  
\*  
\* May 2015, Qiang Zhou  
\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/test/ch\_nxos\_ha.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_client\_database.c  
\* \brief Client database source  
\*  
\* Client database source  
\*  
\* August 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_client\_database.c  
No license file was found, but licenses were detected in source scan.



```

/*!
 * \file ch_debug.h
 * \brief define call-home debug utilities
 *
 * define call-home debug utilities
 *
 * June 2014, Qiang Zhou
 *
 * Copyright (c) 2014-2015 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_debug.h

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

```

/*!
 * \file call_home_ds_nvconfig.h
 * \brief Generate DS nvconfig string and parse DS nvconfig
 *
 * Generate DS nvconfig string and parse DS nvconfig
 *
 * December 2014, Qiang Zhou
 *
 * Copyright (c) 2014-2015 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_nvconfig.h

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

```

/*!
 * \file ch_nvconfig.h
 *
 * \brief APIs for call-home nvconfig load/save
 *
 * APIs for call-home nvconfig load/save
 *
 * August 2014, Qiang Zhou
 *
 * Copyright (c) 2014-2015 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_nvconfig.h



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

```
/*!  
* \file call_home_ds_dnld.c  
* \brief APIs to download DS from SCH  
*  
* Implementation for APIs to download DS from SCH  
*  
* March 2011, Long Yang  
*  
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_dnld.c

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

```
/*!  
* \file ch_em_db_event_throttle.c  
* \brief Call-home event manager, event throttle part  
*  
* Event throttle part in EM  
*  
* December 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch\_em\_db\_event\_throttle.c

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

```
/*!  
* \file call_home_ds_db_pri.h  
* \brief DS database related definitions  
*  
* database related definitions  
*  
* March 2011, Long Yang  
*  
* Copyright (c) 2011-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_db\_pri.h

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

/\*!

\* \file ch\_lib\_filter\_action\_output.h

\* \brief Provide library API to filter action output

\*

\* Library API prototype to filter action output

\*

\* November 2014, Qiang Zhou

\*

\* Copyright (c) 2014 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_lib\_filter\_action\_output.h

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

/\*!

\* \file ch\_em\_mgr.c

\* \brief call-home event-manage MGR layer

\*

\* Call-home event-manage MGR layer, provide lock mainly for event database data

\* access

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch\_em\_mgr.c

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

/\*!

\* \file ch\_ondemand\_common.h

\* \brief define call-home ondemand common related

\*

\* define call-home ondemand common related

\*

\* August 2014, Qiang Zhou

\*



\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_ondemand\_common.h

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

/\*!

\* \file ch\_pf\_curl.h

\* \brief callhome platform http interface

\*

\* depending on libcurl, send out http msg

\*

\* June 2014

\*

\* Copyright (c) 2014 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_curl.h

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

/\*!

\* \file ch\_statistics\_util.c

\* \brief Provide statistics related utility APIs

\*

\* Provide statistics related utility APIs

\*

\* August 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_statistics\_util.c

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

/\*!

\* \file call\_home\_ds\_actions.h

\* \brief Provide DS action related APIs' prototype

\*

\* Provide DS action related APIs' prototype

\*

\* March 2011, Long Yang



\*  
\* Copyright (c) 2011-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_actions.h

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

/\*!  
\* \file ch\_ipc\_server\_util.c  
\* \brief Util APIs for GCH IPC server instance  
\*  
\* Util APIs for GCH IPC server instance  
\*  
\* October 2015, Qiang Zhou  
\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch\_ipc\_server\_util.c

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

/\*!  
\* \file ch\_em\_timer.h  
\* \brief Event manager timer  
\*  
\* Event manager timer  
\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_timer.h

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

/\*!  
\* \file ch\_lib\_event\_api.c  
\* \brief GCH event related library API definitions  
\*  
\* GCH event related library API definitions



\*  
\* October 2015, Qiang Zhou  
\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch\_lib\_event\_api.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_em\_ed.h  
\* \brief Event manager ED  
\*  
\* Event manager ED  
\*  
\* November 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_ed.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file call\_home\_ds\_update\_req.c  
\* \brief Build DS download request  
\*  
\* Build DS download request  
\*  
\* May 2011, Long Yang  
\*  
\* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_update\_req.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file call\_home\_ds\_event\_spec.c  
\* \brief Provide DS raw event spec translation



```

*
* contains entry point and common functions for ds event spec translation.
*
* May 2011,
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-
home/ds/src/call_home_ds_event_spec.c
No license file was found, but licenses were detected in source scan.

```

```

/*!
* \file call_home_ds_signature_verify.c
* \brief To provide function to verify digital signature
*
* To provide function to verify digital signature
*
* May 2011, Chenqi Wang
*
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-
home/ds/src/call_home_ds_signature_verify.c
No license file was found, but licenses were detected in source scan.

```

```

/*!
* \file ch_lib_config_api.h
* \brief define APIs to get/set call-home
*
* Define get/set API to config call-home and retrieve call-home
* configuration/runtime data.
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_lib_config_api.h
No license file was found, but licenses were detected in source scan.

```



```

/*!
 * \file ch_pf_global.h
 * \brief define call-home PD global macro
 *
 * This header file defines call-home platform-dependent global macro
 *
 * June 2014, Qiang Zhou
 *
 * Copyright (c) 2014 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_global.h

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

```

/*!
 * \file ch_cli_ipc_server.h
 * \brief call-home cli ipc server service IPC layer
 *
 * Call-home CLI IPC layer, provide IPC server side service
 *
 * July 2014
 *
 * Copyright (c) 2014-2015 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_cli\_ipc\_server.h

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

```

/*!
 * \file ch_backend_status.h
 * \brief Internal definitions for device backend status
 *
 * Internal definitions for device backend status
 *
 * November 2014, Qiang Zhou
 *
 * Copyright (c) 2014-2015 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_backend\_status.h



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

```
/*!  
* \file ch_cron_entry.c  
* \brief APIs to handle cron string  
*  
* APIs to handle cron string, port from EEM. Made some modification on coding  
* convention part.  
*  
* August 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/  
/* Copyright 1988,1990,1993,1994,2001 by Paul Vixie  
* All rights reserved  
*  
* Distribute freely, except: don't remove my name from the source or  
* documentation (don't take credit for my work), mark your changes (don't  
* get me blamed for your possible bugs), don't alter or remove this  
* notice. May be sold if buildable source is provided to buyer. No  
* warrantee of any kind, express or implied, is included with this  
* software; use at your own risk, responsibility for damages (if any) to  
* anyone resulting from the use of this software rests entirely with the  
* user.  
*  
* Send bug reports, bug fixes, enhancements, requests, flames,  
* etc., and  
* I'll try to keep a version up to date. I can be reached as follows:  
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul  
*/
```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-  
manager/src/ch_cron_entry.c
```

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

```
/*!  
* \file ch_mail_server.h  
* \brief define call-home mail server structure  
*  
* define call-home mail server structure  
*  
* August 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_mail\_server.h

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

/\*!

\* \file ch\_em\_core.c

\* \brief Call-home event manager core file

\*

\* Call-home event manager core file

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch\_em\_core.c

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

/\*!

\* \file call\_home\_ds\_requisite.h

\* \brief Provide DS pre-requisite and post-requisite related APIs' prototype

\*

\* Provide DS pre-requisite and post-requisite related APIs' prototype

\*

\* March 2014, Diankun Zhang

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_requisite.h

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

/\*!

\* \file ch\_em\_db\_generic.c

\* \brief Call-home event manager database

\*

\* Call-home event manager database

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.



\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch\_em\_db\_generic.c

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

/\*!

\* \file ch\_pf\_event\_expand.c

\* \brief Provide support for PD event expand part

\*

\* Provide support for PD event expand part

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_event\_expand.c

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

/\*!

\* \file ch\_notify.h

\* \brief Call-home notify related definitions

\*

\* Call-home notify related definitions

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_notify.h

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

/\*!

\* \file ch\_pf\_signature\_verify.h

\* \brief Provide APIs to do signature verification.

\*

\* Provide APIs to do signature verification, like DS signature verification.

\*

\* January 2015, Qiang Zhou



\*  
\* Copyright (c) 2014 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_signature\_verify.h

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

/\*!  
\* \file call\_home\_ds\_mgr.h  
\* \brief MGR interfaces for database access APIs  
\*  
\* MGR interfaces for database access APIs  
\*  
\* March 2011, Long Yang  
\*  
\* Copyright (c) 2011-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_mgr.h

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

/\*!  
\* \file ch\_ipc\_server.h  
\* \brief GCH ipc server APIs  
\*  
\* GCH ipc server APIs  
\*  
\* October 2015, Qiang Zhou  
\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch\_ipc\_server.h

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

/\*!  
\* \file ch\_lib\_cli.c  
\* \brief GCH ipc cli client instance  
\*  
\* GCH ipc cli client instance



\*  
\* October 2015, Qiang Zhou  
\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch\_lib\_cli.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file call\_home\_ds\_requisite.c  
\* \brief Provide DS pre-requisite and post-requisite related APIs  
\* Provide DS pre-requisite and post-requisite related APIs  
\*  
\* March 2014,  
\*  
\* Copyright (c) 2011-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_requisite.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_em\_event\_expand.h  
\* \brief Provide support for event expand part  
\*  
\* Provide support for event expand part  
\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_event\_expand.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_statistics.h  
\* \brief define call-home statistics related  
\*  
\*



\* define call-home statistics DB operation related  
\*  
\* August 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_statistics.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_sl\_ipc\_server.h  
\* \brief smart license ipc server related include file  
\*  
\* smart license ipc server related include file  
\*  
\* July 2014  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_sl\_ipc\_server.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_em\_core.h  
\* \brief Event manager core include file  
\*  
\* Event manager core include file  
\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_core.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_pf\_transport.h



```

* \brief platform transport APIs
*
* Define platform transport APIs, like http/email msg send
*
* or get one specific module info.
*
* June 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_transport.h

```

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

```

/*!
* \file ch_client_mgr.c
* \brief Client MGR file
*
* Client MGR file
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_client_mgr.c

```

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

```

/*!
* \file ch_mgr.c
* \brief call-home MGR layer
*
* Call-home MGR layer, provide lock mainly for database/profile/event data
* access
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_mgr.c

```



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

```
/*!  
* \file ch_lib_config_api.c  
* \brief define APIs to get/set call-home  
*  
* Define get/set API to config call-home and retrieve call-home  
* configuration/runtime data.  
*  
* October 2015  
*  
* Copyright (c) 2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch\_lib\_config\_api.c

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

```
/*!  
* \file ch_client_api.c  
* \brief Client API implementation  
*  
* Client API implementation  
*  
* August 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_client\_api.c

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

```
/*!  
* \file ch_client_database.h  
* \brief Client database header file  
*  
* Client database header file  
*  
* August 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):



\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-

home/core/include/ch\_client\_database.h

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

/\*!

\* \file ch\_shim.h

\* \brief Shim layer header file

\*

\* Shim layer header file to cover platform difference

\*

\* January 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/include/ch\_shim.h

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

/\*!

\* \file ch\_lib\_sl.h

\* \brief GCH library API to init GCH SL client

\*

\* GCH library API to init GCH SL client

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_lib\_sl.h

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

/\*!

\* \file ch\_pf\_sys\_info\_stub.c

\* \brief Provide APIs to get platform system info

\*

\* Provide APIs to get platform system info

\*

\* November 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_sys\_info\_stub.c

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

/\*!

\* \file call\_home\_ds\_events.c

\* \brief Provide DS event related APIs

\*

\* Provide DS event related APIs

\*

\* March 2011,

\*

\* Copyright (c) 2011-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_events.c

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

/\*!

\* \file ch\_backend\_status.c

\* \brief Get device backend status

\*

\* Get device backend status

\*

\* November 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_backend\_status.c

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

/\*!

\* \file ch\_build\_xml\_msg.c

\* \brief contain lib code to build a XML msg

\*

\* Define lib code to build a XML msg. Most of the code is ported from IOS base

\*

\* August 2014, Qiang Zhou

\*



\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_build\_xml\_msg.c

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

/\*!

\* \file call\_home\_ds\_xml\_parser.h

\* \brief Call Home DS xml parser defination

\*

\* Call Home DS xml parser defination

\*

\* April 2011, Chenqi Wang

\*

\* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_xml\_parser.h

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

/\*!

\* \file ch\_ipc\_request\_code.h

\* \brief GCH ipc request code definition

\*

\* GCH ipc request code definition

\*

\* October 2015

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch\_ipc\_request\_code.h

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

/\*!

\* \file ch\_profile.h

\* \brief define call-home profile

\*

\* define call-home profile, and save all profile data



\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_profile.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_pf\_ca\_content.h  
\* \brief define ca chain for https  
\*  
\* ca chain works for tools.cisco.com, tools-dev.cisco.com,  
\* tools-stage.cisco.com and elo-elm5.cisco.com  
\*  
\* the first 3 works for tools.cisco.com  
\* the 4th for tools-dev and tools-stage  
\* the last 3 works for elo-elm5.cisco.com  
\*  
\* July 2014  
\*  
\* Copyright (c) 2014 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_ca\_content.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file call\_home\_ds\_update\_req.h  
\* \brief Provide functionality for DS download request build  
\*  
\* Provide functionality for DS download request build  
\*  
\* Copyright (c) 2005, 2007-2008, 2010-2011, 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_update\_req.h



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

```
/*!  
* \file ch_backend_status_common.h  
* \brief call-home definition for device backend status  
*  
* call-home definition for device backend status  
*  
* November 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_backend_status_common.h
```

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

```
/*!  
* \file ch_build_msg.h  
* \brief Build msg related definitions  
*  
* Build msg related definitions  
*  
* August 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_build_msg.h
```

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

```
/*!  
* \file ch_em_database.h  
* \brief Call-home event manager database related  
*  
* Call-home event manager database related  
*  
* July 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_database.h

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

/\*!

\* \file ch\_db\_rate\_limit.c

\* \brief Implement rate limit functionality

\*

\* Implement rate limit functionality

\*

\* August 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_db\_rate\_limit.c

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_main.h

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

/\*!

\* \file ch\_pf\_profile.c

\* \brief Define call-home platform profile param

\*

\* Define call-home platform profile param

\*

\* November 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_profile.c

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

/\*!

\* \file ch\_lib\_ipc\_client.h

\* \brief GCH ipc client instance APIs

\*

\* GCH ipc client instance APIs

\*

\* October 2015

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.



\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/include/ch\_lib\_ipc\_client.h

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

/\*!

\* \file ch\_lib\_main\_lib\_ver.c

\* \brief GCH library main for GCH library version

\*

\* GCH library main for GCH library version

\*

\* October 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch\_lib\_main\_lib\_ver.c

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

/\*!

\* \file ch\_client\_api.h

\* \brief Client API prototypes

\*

\* Client API prototypes

\*

\* August 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_client\_api.h

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

/\*-----

\* fh\_xml\_parser.h - Header file for the EEM xml parser

\*

\* September 2006

\*

\* Copyright (c) 2006-2009, 2011, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*-----



\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/fh\_xml\_parser.h

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

/\*!

\* \file ch\_lib\_main\_proc\_ver.h

\* \brief call-home main header for GCH proc version

\*

\* call-home main header for GCH proc version

\*

\* Nov 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_lib\_main\_proc\_ver.h

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

/\*!

\* \file ch\_em\_generic.h

\* \brief Event manager generic definitions

\*

\* Event manager generic definitions

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_generic.h

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

/\*!

\* \file ch\_shim.c

\* \brief add shim layer, cover the difference of platforms/OS

\*

\* add shim layer, cover the difference of platforms/OS

\*

\*



\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/linux/ch\_shim\_gvd.c

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/linux/ch\_shim.c

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

/\*!

\* \file call\_home\_ds\_em.h

\* \brief Prototypes for wrapper APIs related with EM

\*

\* Prototypes for wrapper APIs related with EM

\*

\* March 2011, Long Yang

\*

\* Copyright (c) 2011-2012, 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_em.h

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

/\*!

\* \file ch\_event\_common.h

\* \brief define platform event related structures

\*

\* define structures for platform event group, platform event publish,

\* event spec, and event actions.

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_event\_common.h

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

/\*!

\* \file ch\_db\_profile.c

\* \brief Maintain call-home profiles



```

*
* Maintain all call-home profiles, provide interface for profile data
* manipulation
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_db_profile.c
No license file was found, but licenses were detected in source scan.

```

```

/*!
* \file ch_ipc_cli_server.c
* \brief GCH cli ipc server instance
*
* GCH cli ipc server instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_cli_server.c
No license file was found, but licenses were detected in source scan.

```

```

/*!
* \file call_home_ds_nvconfig.c
* \brief Generate DS nvconfig string and parse DS nvconfig
*
* Generate DS nvconfig string and parse DS nvconfig
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-
home/ds/src/call_home_ds_nvconfig.c
No license file was found, but licenses were detected in source scan.

```

```

/*!

```



```

* \file ch_pf_event_throttle.h
* \brief Call-home platform event throttle functionality
*
* Call-home platform event throttle functionality
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-
home/pf/include/ch_pf_event_throttle.h

```

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

```

/*!
* \file ch_db_event.c
* \brief Maintain active profile events and event groups
*
* Maintain all active profile events, and all platform supported event groups
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_db_event.c

```

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

```

/*!
* \file ch_linux_util.c
* linux call-home util
*
* linux call-home util
*
* Feb 2015, Fucheng Xu
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-
specific/linux/ch_linux_util.c

```



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

```
/*!  
* \file ch_pf_config.h  
* \brief define call-home PD configurations  
*  
* This header file defines call-home platform-dependent configurations  
*  
* June 2014, Qiang Zhou  
*  
* Copyright (c) 2014 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_config.h

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

```
/*!  
* \file ch_pf_main.c  
* \brief Define pf main, like API to init pf side  
*  
* Define platform supported event groups  
*  
* November 2015, Qiang Zhou  
*  
* Copyright (c) 2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_main.c

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

```
/*!  
* \file ch_pf_nvconfig.h  
* \brief define APIs to load/save call-home config  
*  
* Define APIs to load call-home configuration from disk to memory, and save it  
* from memory to disk.  
*  
* July 2014, Qiang Zhou  
*  
* Copyright (c) 2014 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):



\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_nvconfig.h

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

/\*!

\* \file call\_home\_ds\_actions.c

\* \brief Provide DS action related APIs

\*

\* Provide DS action related APIs

\*

\* March 2011,

\*

\* Copyright (c) 2011-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_actions.c

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

/\*!

\* \file ch\_linux\_util.h

\* linux callhome util

\*

\* linux callhome util

\*

\* Feb 2015, Fucheng Xu

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/linux/ch\_linux\_util.h

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

/\*!

\* \file ch\_notify.c

\* \brief Call-home notify part, for event/ondemand

\*

\* Call-home notify part, for event/ondemand

\*

\* July 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_notify.c

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

/\*!

\* \file call\_home\_ds\_main.c

\* \brief Call-home DS main

\*

\* DS Main, do 1. main process creation

\*       2. timer event dispatch

\*       3. msg dispatch

\*

\* May 2011,

\*

\* Copyright (c) 2011-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_main.c

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

/\*!

\* \file call\_home\_ds\_main.h

\* \brief DS main header file

\* DS main header file

\*

\* Nov. 2011,

\*

\* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_main.h

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

/\*!

\* \file ch\_ondemand.h

\* \brief Provide call-home ondemand API prototypes

\*

\* Provide call-home ondemand API prototypes

\*

\* August 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.



\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_ondemand.h

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

/\*!

\* \file ch\_client\_resp\_parse.h

\* \brief Provide APIs to parse response from SCH for client

\*

\* Provide APIs to parse response from SCH for client

\*

\* August 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_client\_resp\_parse.h

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

/\*!

\* \file ch\_em\_ed.c

\* \brief Call-home event manager Event Detectors

\*

\* Call-home event manager Event Detectors, these EDs are created on

\* init phase, according to the PD supported events

\*

\* November 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch\_em\_ed.c

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

/\*!

\* \file call\_home\_ds\_update\_rsp\_parse.c

\* \brief Extract download info from update response

\*

\* Extract download info from update response



\*  
\* May 2011, Chenqi Wang  
\*  
\* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_update\_rsp\_parse.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_ondemand.c  
\* \brief Call-home ondemand run suite  
\*  
\* Provide call-home ondemand functionality like ondemand msg send, ondemand  
\* test on call-home profile.  
\*  
\* August 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_ondemand.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_client\_resp\_parse.c  
\* \brief Client response parse implementation  
\*  
\* Client response parse implementation  
\*  
\* August 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_client\_resp\_parse.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file call\_home\_ds\_file.c



\* \brief Provide file I/O APIs

\*

\* Provide file I/O APIs

\*

\* May 2011,

\*

\* Copyright (c) 2011-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_file.c

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

/\*!

\* \file ch\_lib\_main\_lib\_ver.h

\* \brief call-home main header for GCH lib version

\*

\* call-home main header for GCH lib version

\*

\* Nov 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_lib\_main\_lib\_ver.h

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

/\*!

\* \file ch\_pf\_event\_group.c

\* \brief Define platform supported event groups

\*

\* Define platform supported event groups

\*

\* November 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_event\_group.c

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



```

/*!
 * \file ch_lib_util.h
 * \brief call-home lib internal utility APIs
 *
 * call-home lib private utility APIs, only for call-home internal use
 *
 * June 2015
 *
 * Copyright (c) 2015 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/include/ch\_lib\_util.h

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

```

/*!
 * \file ch_lib_main_process_ver.c
 * \brief GCH library main for GCH process version
 *
 * GCH library main for GCH process version
 *
 * October 2015, Qiang Zhou
 *
 * Copyright (c) 2015 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch\_lib\_main\_process\_ver.c

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

```

/*!
 * \file call_home_ds_script.c
 * \brief Provide DS script related APIs
 *
 * Provide DS script related APIs
 *
 * May 2011,
 *
 * Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
 * All rights reserved.
 */

```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_script.c



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

```
/*!  
* \file ch_em_event_expand.c  
* \brief Provide support for event expand part  
*  
* Provide support for event expand part  
*  
* July 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-  
manager/src/ch_em_event_expand.c
```

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

```
/*!  
* \file ch_profile_common.h  
* \brief profile commonly used definitions  
*  
* profile commonly used definitions  
*  
* July 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-  
home/include/ch_profile_common.h
```

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

```
/*!  
* \file ch_pf_trustpool.c  
* \brief api of trustpool  
*  
* functions of trustpool  
* 1. auto download cisco trustpool bundle;  
* 2. customer can specify private bundle;  
*  
* Sep 2015  
*  
* Copyright (c) 2015 by cisco Systems, Inc.  
* All rights reserved.
```



\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_trustpool.c

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

/\*!

\* \file ch\_em\_ipc\_server.h

\* \brief Event manager ipc server include file

\*

\* Event manager ipc server include file

\*

\* July 2014

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_ipc\_server.h

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

/\*!

\* \file ch\_ipc\_event\_server.c

\* \brief GCH event ipc server instance

\*

\* GCH event ipc server instance

\*

\* October 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch\_ipc\_event\_server.c

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

/\*!

\* \file ch\_pf\_action\_stub.c

\* \brief Provide API to run GCH event actions

\*

\* Provide API to run GCH event actions

\*

\* November 2015, Qiang Zhou



\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_action\_stub.c

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

/\*!  
\* \file ch\_lib\_client\_api.h  
\* \brief define APIs for call-home clients  
\*  
\* define APIs for call-home clients, like sending client msg API  
\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_lib\_client\_api.h

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

/\*!  
\* \file ch\_em\_timer.c  
\* \brief Infrastructure for event manager timer  
\*  
\* Infrastructure for event manager timers  
\*  
\* August 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/src/ch\_em\_timer.c

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

/\*!  
\* \file ch\_database.h  
\* \brief define call-home database  
\*  
\* define call-home database



\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_database.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_test\_main.h  
\* \brief Call-home test main header file  
\*  
\* Call-home test main header file  
\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/test/ch\_internal\_test\_main.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_pf\_trustpool.h  
\* \brief api of trustpool  
\*  
\* functions of trustpool  
\* 1. auto download cisco trustpool bundle;  
\* 2. customer can specify private bundle;  
\*  
\* Sep 2015  
\*  
\* Copyright (c) 2014 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_trustpool.h  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_rate\_limit.h  
\* \brief Define rate limit related



```

*
* Define rate limit related
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch_rate_limit.h

```

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

```

/*!
* \file call_home_ds_util.c
* \brief Provide DS utility functions
*
* Provide DS utility functions
*
* May 2011, Long Yang
*
* Copyright (c) 2011-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call_home_ds_util.c

```

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

```

/*!
* \file ch_debug.c
* \brief Call-home debug facility
*
* Call-home debug facility
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_debug.c

```

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

```

/*!
* \file ch_ipc_main.c
* \brief GCH ipc subsystem main

```



```

*
* GCH ipc subsystem main
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_main.c
```

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

```

/*!
* \file ch_pf_event_throttle.c
* \brief Sample code for call-home platform event throttle functionality
*
* Sample code for call-home platform event throttle functionality
* Porting NOTE:
* The sample code only compares event type/subtype/description to decide
* whether two events are the same. But there could be such case that two events
* with similar description, but actually they are the same. For this case,
* event throttle could not work efficiently. And you need fill you own code to
* handle this situation.
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src_stub/ch_pf_event_throttle.c
```

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

```

/*!
* \file ch_statistics_util.h
* \brief define call-home statistics utilities
*
* define call-home statistics utilities
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_statistics\_util.h

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

/\*!

\* \file ch\_pf\_signature\_verify.c

\* \brief Provide APIs to do signature verification.

\*

\* Provide APIs to do signature verification, like DS signature verification.

\*

\* January 2015, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_signature\_verify.c

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

/\*!

\* \file ch\_formatter\_xml.h

\*

\* \brief Definitions for XML message formatting

\*

\* Definitions for XML message formatting, porting from IOS

\*

\* August 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_formatter\_xml.h

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

/\*!

\* \file ch\_ha.c

\* \brief GCH HA infra PI part

\*

\* GCH HA infra PI part

\*

\* April 2015, Qiang Zhou

\*



\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ha/src/ch\_ha.c

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

/\*!

\* \file cll\_home\_formatter\_xml.c

\* \brief Lib API to format a XML string

\*

\* Define LIB code to format a XML string. Most of the code is ported from IOS.

\*

\* August 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_formatter\_xml.c

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

/\*!

\* \file ch\_sys\_info.h

\* \brief define platform system info

\*

\* Define platform system info related structures, for both hardware based

\* products and software based products.

\*

\* June 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_sys\_info.h

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

/\*!

\* \file ch\_pf\_config.c

\* \brief Define platform configuration for GCH

\*

\* Define platform configuration for GCH

\*

\* November 2015, Qiang Zhou



\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_config.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_util.c  
\* \brief Provide utility APIs  
\*  
\* Provide utility APIs  
\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_util.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_db\_generic.c  
\* \brief Maintain call-home database(except profile)  
\*  
\* Maintain call-home database, excpet profiles  
\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_db\_generic.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file bitstring.h  
\* \brief Bit string handling MACRO  
\*  
\* Bit string handling MACRO  
\*  
\* August 2014, Qiang Zhou



```

*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
/*
* Copyright (c) 1989, 1993
*   The Regents of the University of California. All rights reserved.
*
* This code is derived from software contributed to Berkeley by
* Paul Vixie.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials
*   mentioning features or use of this software
*   must display the following acknowledgement:
*   This product includes software developed by the University of
*   California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
*   @(#)bitstring.h 8.1 (Berkeley) 7/19/93
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-
manager/include/bitstring.h

```



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

```
/*!  
* \file ch_pf_smtp.c  
* \brief callhome platform smtp related handling  
*  
* depending on libcurl, implement smtp related function  
*  
* June 2014  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_smtp.c  
No license file was found, but licenses were detected in source scan.

```
/*!  
* \file ch_util.h  
* \brief define call-home common utilities  
*  
* define call-home common utilities  
*  
* June 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/include/ch\_util.h  
No license file was found, but licenses were detected in source scan.

```
/*!  
* \file call_home_ds_events.h  
* \brief Provide DS event related definitons  
*  
* Provide DS event related definitons  
*  
* March 2011, Long Yang  
*  
* Copyright (c) 2011-2012, 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-



home/ds/include/call\_home\_ds\_events.h

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

```
/*!  
* \file call_home_ds_signature_verify.h  
* \brief Header file for digital signature API  
*  
* Header file for digital signature API  
*  
* May 2011, Chenqi Wang  
*  
* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_signature\_verify.h

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

```
/*!  
* \file ch_db_statistics.c  
* \brief Maintain global & profile's statistics  
*  
* Maintain global & profile's statistics  
*  
* August 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_db\_statistics.c

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

```
/*!  
* \file call_home_ds_database.c  
* \brief DS database APIs  
*  
* DS database APIs.  
*  
* May 2011,  
*  
* Copyright (c) 2011-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_database.c

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

/\*!

\* \file ch\_pf\_sys\_info.h

\* \brief platform system info related APIs

\*

\* Define platform system info related API prototypes. Like get the system info

\* or get one specific module info.

\*

\* June 2014, Qiang Zhou

\*

\* Copyright (c) 2014 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_sys\_info.h

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

/\*!

\* \file ch\_pf\_profile.h

\* \brief define call-home profile on platform side

\*

\* Define call-home profile for platform side, like TAC profile configuration

\* interface.

\*

\* June 2014, Qiang Zhou

\*

\* Copyright (c) 2014 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch\_pf\_profile.h

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

/\*!

\* \file ch\_test\_lib\_config\_api.c

\* \brief Sanity test on GCH lib config APIs

\*

\* Sanity test on GCH lib config APIs

\*

\* Nov 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.



\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/test/ch\_test\_lib\_api.c

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

/\*!

\* \file ch\_debug\_common.h

\* \brief define call-home common debug flags

\*

\* define call-home common debug flags

\*

\* November 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_debug\_common.h

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

/\*!

\* \file call\_home\_ds\_db\_act\_pri.h

\* \brief Provide DS action related definitions

\*

\* Provide DS action related definitions

\*

\* March 2011, Long Yang

\*

\* Copyright (c) 2011-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_db\_act\_pri.h

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

/\*!

\* \file call\_home\_ds\_db\_evt\_pri.h

\* \brief define DS event related structure

\*

\* define DS event related structure

\*

\* March 2011, Long Yang



\*  
\* Copyright (c) 2011-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_db\_evt\_pri.h

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

/\*!  
\* \file call\_home\_ds\_em\_cb.c  
\* \brief Provide wrapper APIs related with EM  
\*  
\* Provide wrapper APIs related with EM, event reg/cb  
\*  
\* March 2011,  
\*  
\* Copyright (c) 2011-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_em\_cb.c

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

/\*-----  
\* fh\_xml\_parser.c - Implementation of the xml parser object for the  
\* xml parser.  
\*  
\* September 2006  
\*  
\* Copyright (c) 2006-2011, 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/fh\_xml\_parser.c

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

/\*!  
\* \file ch\_pf\_curl.c  
\* \brief callhome platform http interface  
\*  
\* depending on libcurl, send out http msg  
\*  
\*/



\* June 2014

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/src\_stub/ch\_pf\_curl.c

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

/\*!

\* \file ch\_statistics\_common.h

\* \brief define call-home statistics structures

\*

\* define call-home statistics structures

\*

\* August 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_statistics\_common.h

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

/\*!

\* \file ch\_ipc\_sl\_server.c

\* \brief GCH sl ipc server instance

\*

\* GCH sl ipc server instance

\*

\* October 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch\_ipc\_sl\_server.c

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

/\*!

\* \file call\_home\_ds\_mgr.c

\* \brief DS manager APIs(access with critical section protection)

\*

\* DS manager APIs(access with critical section protection)



\*  
\* May 2011, Long Yang  
\*  
\* Copyright (c) 2011-2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/call\_home\_ds\_mgr.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_test\_main.c  
\* \brief Call-home test main file  
\*  
\* Call-home test main file  
\*  
\* July 2014, Qiang Zhou  
\*  
\* Copyright (c) 2014 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/test/ch\_internal\_test\_main.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_ipc\_common\_util.c  
\* \brief IPC util APIs shared between client & server  
\*  
\* IPC util APIs shared between client & server. Note, as debug API isn't the  
\* same for client & server, no debug trace is added in this file.  
\*  
\* October 2015, Qiang Zhou  
\*  
\* Copyright (c) 2015 by cisco Systems, Inc.  
\* All rights reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch\_ipc\_common\_util.c  
No license file was found, but licenses were detected in source scan.

/\*!  
\* \file ch\_ds.h  
\* \brief common DS definitions



```

*
* common DS definitions
*
* January 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_ds.h

```

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

```

/*!
* \file ch_ipc_dummy.c
* \brief GCH ipc dummy
*
* GCH ipc dummy definitions for GCH library version
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/src/ch_ipc_dummy.c

```

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

```

/*!
* \file ch_ds_api_public.h
* \brief DS public API interface
*
* DS public API interface
* These APIs are provide for call outside of DS
*
* December 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-
home/ds/include/ch_ds_api_public.h

```

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

```

/*-----

```



```

* cns_dom.c - Implementation of the dom object for the xml parser
*
* September 2006
*
* Copyright (c) 2006-2009, 2011, 2015 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/fh_xml_dom.c

```

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

```

/*!
* \file ch_global.h
* \brief call-home global definitions
*
* call-home global definitions
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch_global.h

```

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

```

/*!
* \file call_home_ds_script.h
* \brief Provide DS script related definitions
*
* Provide DS script related definitions
*
* May 2011,
*
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_script.h

```

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

```

/*!
* \file ch_pf_event.h

```



```

* \brief event API for platform implementation
*
* event related API prototypes, platform should implement them
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_event.h

```

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

```

/*!
* \file ch_main.c
* \brief Call-home main file
*
* Call-home main file
*
* July 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch_main.c

```

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

```

/*!
* \file ch_cron_entry.h
* \brief APIs to handle cron string
*
* APIs to handle cron string
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-
manager/include/ch_cron_entry.h

```

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

```

/*!

```



```

* \file cron.h
* \brief CRON related definitions
*
* CRON related definitions
*
* August 2014, Qiang Zhou
*
* Copyright (c) 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*/
/* Copyright 1988,1990,1993,1994 by Paul Vixie
* All rights reserved
*
* Distribute freely, except: don't remove my name from the source or
* documentation (don't take credit for my work), mark your changes (don't
* get me blamed for your possible bugs), don't alter or remove this
* notice. May be sold if buildable source is provided to buyer. No
* warrantee of any kind, express or implied, is included with this
* software; use at your own risk, responsibility for damages (if any) to
* anyone resulting from the use of this software rests entirely with the
* user.
*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-
manager/include/cron.h

```

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

```

/*!
* \file ch_lib_ipc_client_util.h
* \brief Util APIs for GCH IPC client instance
*
* Util APIs for GCH IPC client instance
*
* October 2015, Qiang Zhou
*
* Copyright (c) 2015 by cisco Systems, Inc.
* All rights reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-
home/lib/include/ch_lib_ipc_client_util.h

```



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

```
/*!  
* \file call_home_ds_file.h  
* \brief Provide file I/O API related definitions  
*  
* Provide file I/O API related definitions  
*  
* March 2011  
*  
* Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call_home_ds_file.h
```

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

```
/*!  
* \file ch_pf_smtp.h  
* \brief callhome platform smtp related handling  
*  
* callhome platform smtp related handling  
*  
* June 2014  
*  
* Copyright (c) 2014 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/pf/include/ch_pf_smtp.h
```

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

```
/*-----  
* cns_container.c - Implementation of the container object for the  
*                  xml parser  
*  
* September 2006  
*  
* Copyright (c) 2006-2009, 2015 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/fh_xml_container.c
```



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

```
/*!  
* \file ch_ds_api_public.c  
* \brief DS public API interface  
*  
* DS public API interface.  
* These APIs are provide for call outside of DS.  
*  
* December 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/src/ch\_ds\_api\_public.c

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

```
/*!  
* \file ch_lib_util.h  
* \brief call-home lib utility  
*  
* call-home lib debug/utility  
*  
* Oct 2014  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_lib\_util.h

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

```
/*!  
* \file ch_lib_cli.h  
* \brief GCH library API to init CLI client  
*  
* GCH library API to init CLI client  
*  
* July 2014, Qiang Zhou  
*  
* Copyright (c) 2014-2015 by cisco Systems, Inc.  
* All rights reserved.  
*/
```

Found in path(s):



\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/include/ch\_lib\_cli.h

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

/\*!

\* \file ch\_shim\_client\_api.h

\* \brief add shim header, cover the difference of platforms/OS

\*

\* add shim header, cover the difference of platforms/OS

\*

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/os-specific/include/ch\_shim\_client\_api.h

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

/\*!

\* \file ch\_ipc\_common\_util.h

\* \brief IPC util APIs shared between client & server

\*

\* IPC util APIs shared between client & server

\*

\* October 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ipc/include/ch\_ipc\_common\_util.h

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

/\*!

\* \file ch\_error\_string.h

\* \brief call-home error string

\*

\* call-home error string

\*

\* July 2014

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/



Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/core/src/ch\_error\_string.c

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

/\*!

\* \file call\_home\_ds\_util.h

\* \brief DS utility functions

\*

\* DS utility functions

\*

\* Jun 2011, Long Yang

\*

\* Copyright (c) 2011-2012, 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_util.h

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

/\*!

\* \file ch\_em\_event\_throttle.h

\* \brief EM event throttle part functionality API

\*

\* EM event throttle part functionality API

\*

\* December 2014, Qiang Zhou

\*

\* Copyright (c) 2014-2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/event-manager/include/ch\_em\_event\_throttle.h

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

/\*!

\* \file ch\_lib\_ipc\_client\_util.c

\* \brief Util APIs for GCH IPC client instance

\*

\* Util APIs for GCH IPC client instance

\*

\* October 2015, Qiang Zhou

\*

\* Copyright (c) 2015 by cisco Systems, Inc.

\* All rights reserved.



\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/lib/src/ch\_lib\_ipc\_client\_util.c

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

/\*!

\* \file call\_home\_ds\_event\_spec.h

\* \brief DS event spec translation header file

\*

\* This header file includes necessary data structure and function prototypes

\* for call home DS event spec translation subsystem

\*

\* March 2011

\*

\* Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1096613999\_1602157034.18/0/gch-v0-1-tar-gz/gch-v0.1/call-home/ds/include/call\_home\_ds\_event\_spec.h

# 1.67 python-klein 20.6.0

## 1.67.1 Available under license :

This is the MIT license.

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ARISING FROM,  
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE  
SOFTWARE.

# 1.68 cissossl-fom 6.2a.201703281752

## 1.68.1 Available under license :

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

# project. The module is, however, dual licensed under OpenSSL and

Found in path(s):

```
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/aes/asm/aesni-x86_64.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/bn/asm/x86-gf2m.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/modes/asm/ghash-s390x.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha1-parisc.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/modes/asm/ghash-parisc.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha512-586.pl
*
/opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha1-mips.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/modes/asm/ghash-x86_64.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha1-sparcv9.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha1-sparcv9a.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha1-ia64.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha512-armv4.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha512-ia64.pl
*
/opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/aes/asm/aes-armv4.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/bn/asm/ppc64-mont.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-6.2a.201703281752/crypto/sha/asm/sha1-thumb.pl
* /opt/cola/permits/1096633347_1602145442.64/0/cissossl-fom-6-2a-201703281752-tar-gz/cissossl-fom-
```



6.2a.201703281752/crypto/modes/asm/ghash-x86.pl  
 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/bn/asm/ppc-mont.pl  
 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/sha/asm/sha512-ppc.pl  
 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/sha/asm/sha256-armv4.pl  
 \*  
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 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/sha/asm/sha512-mips.pl  
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 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/aes/asm/aes-s390x.pl  
 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/aes/asm/aesni-x86.pl  
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 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/bn/asm/via-mont.pl  
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 \*  
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 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/bn/asm/x86\_64-mont5.pl  
 \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/aes/asm/aes-parisc.pl



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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/sha/asm/sha1-armv4-large.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
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*
/opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/modes/asm/ghash-alpha.pl
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6.2a.201703281752/crypto/sha/asm/sha1-alpha.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/aes/asm/aes-ppc.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/sha/asm/sha512-parisc.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/bn/asm/alpha-mont.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/bn/asm/armv4-gf2m.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/bn/asm/parisc-mont.pl
*
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6.2a.201703281752/crypto/sha/asm/sha512-s390x.pl
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6.2a.201703281752/crypto/sha/asm/sha512-sparcv9.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/bn/asm/sparcv9-mont.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/modes/asm/ghash-sparcv9.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/sha/asm/sha1-586.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/bn/asm/x86_64-gf2m.pl
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6.2a.201703281752/crypto/bn/asm/x86_64-mont.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/aes/asm/aes-586.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
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6.2a.201703281752/crypto/ui/ui_compat.h
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/mem_clr.c
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/ui/ui.h
*
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/cryptlib.c

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- \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/rsa/rsa\_x931g.c
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-

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6.2a.201703281752/crypto/des/des_ver.h
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*
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6.2a.201703281752/crypto/lhash/lhash.h
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6.2a.201703281752/e_os.h
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/des/rpc_des.h
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6.2a.201703281752/crypto/dh/dh_key.c
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\* crypto/bn/asm/modexp-octeon.c - Cavium Octeon specific hardware assist  
\* functionality.

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\* fips/kdf/fips\_kdf\_802\_11i.c - 802\_11i KDF vector tests

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\* fips/kdf/fips\_kdf\_ssh.c - SSH KDF vector tests

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 * fips/embedsig.c - Utility to embed signatures into files on disk
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```

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```
/* -----
 * crypto/aes/asm/aes-octeon.c - Cavium Octeon specific hardware assist
 * functionality that is to reside within the FIPS canister.
 *
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* fips/kdf/fips_kdf_snmp.c - SNMP KDF vector tests  
*  
* March 2015  
*  
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```
#define FIPS_AUTH_KEY "etaonrishdlcupfm"
#define FIPS_AUTH_CRYPTOFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTouser "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"
```

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- \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-



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```

/* -----
* crypto/aes/asm/aes_xts-octeon.c - Cavium Octeon specific hardware assist
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*
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/* -----
 * crypto/aes/asm/aes_ccm-octeon.c - Cavium Octeon specific hardware assist
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*
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\*

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 6.2a.201703281752/crypto/rsa/rsa\_eay.c

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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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* include/cavium/cvmx-aes.h - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
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```
#!/usr/bin/env perl
```

```
# =====
# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
# CRYPTOGAMS licenses depending on where you obtain it. For further
# details see http://www.openssl.org/~appro/cryptogams/.
# =====
```

```
# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].
#
# (*) this means that this module is inappropriate for PPC403? Does
# anybody know if pre-POWER3 can sustain unaligned load?
```

```
# -m64 -m32
# -----
# PPC970,gcc-4.0.0 +76% +59%
# Power6,xlc-7 +68% +33%
```

```
$flavour
= shift;
```

```
if ($flavour =~ /64/) {
    $SIZE_T = 8;
    $LRSIZE = 2*$SIZE_T;
    $UCMP = "cmpld";
    $STU = "std";
    $POP = "ld";
    $PUSH = "std";
} elsif ($flavour =~ /32/) {
```



```

$SIZE_T=4;
$LRSIZE=$SIZE_T;
$UCMP="cmplw";
$STU="stwu";
$POP="lwz";
$PUSH="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\\])(^\\)+$/; $dir=$1;
( $xlate="{dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="{dir}../perlasm/ppc-xlate.pl" and -f $xlate ) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| $^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=24*$SIZE_T+64;
$LOCALS=6*$SIZE_T;

$K ="r0";
$sp ="r1";
$toc="r2";
$ctx="r3";
$inp="r4";
$num="r5";
$t0 ="r15";
$t1 ="r6";

$A ="r7";
$B ="r8";
$C ="r9";
$D ="r10";
$E ="r11";
$T ="r12";

@V=($A,$B,$C,$D,$E,$T);
@X=("r16","r17","r18","r19","r20","r21","r22","r23",
    "r24","r25","r26","r27","r28","r29","r30","r31");

sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<__ if ($i==0);
lwz @X[$i],`$i*4`($inp)

__
$code.=<<__
if ($i<15);
lwz @X[$j],`$j*4`($inp)
add $f,$K,$e

```



```

rotlwi $e,$a,5
add $f,$f,@X[$i]
and $t0,$c,$b
add $f,$f,$e
andc $t1,$d,$b
rotlwi $b,$b,30
or $t0,$t0,$t1
add $f,$f,$t0

____
$code.=<<____ if ($i>=15);
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[( $j+2)%16]
add $f,$f,@X[$i%16]
and $t0,$c,$b
xor @X[$j%16],@X[$j%16],@X[( $j+8)%16]
add $f,$f,$e
andc $t1,$d,$b
rotlwi $b,$b,30
or $t0,$t0,$t1
xor @X[$j%16],@X[$j%16],@X[( $j+13)%16]
add $f,$f,$t0
rotlwi @X[$j%16],@X[$j%16],1

____
}

```

```

sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<____ if ($i<79);
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[( $j+2)%16]
add $f,$f,@X[$i%16]
xor $t0,$b,$c
xor @X[$j%16],@X[$j%16],@X[( $j+8)%16]
add $f,$f,$e
rotlwi $b,$b,30
xor $t0,$t0,$d
xor @X[$j%16],@X[$j%16],@X[( $j+13)%16]
add $f,$f,$t0
rotlwi @X[$j%16],@X[$j%16],1

____

```

```

$code.=<<____ if ($i==79);
add $f,$K,$e
rotlwi $e,$a,5
lwz r16,0($ctx)
add $f,$f,@X[$i%16]

```



```

xor $t0,$b,$c
lwz r17,4($ctx)
add $f,$f,$e
rotlwi $b,$b,30
lwz r18,8($ctx)
xor $t0,$t0,$d
lwz r19,12($ctx)
add $f,$f,$t0
lwz r20,16($ctx)

```

```

——
}

```

```

sub
BODY_40_59 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<____;
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(j+2)%16]
add $f,$f,@X[$i%16]
and $t0,$b,$c
xor @X[$j%16],@X[$j%16],@X[(j+8)%16]
add $f,$f,$e
or $t1,$b,$c
rotlwi $b,$b,30
xor @X[$j%16],@X[$j%16],@X[(j+13)%16]
and $t1,$t1,$d
or $t0,$t0,$t1
rotlwi @X[$j%16],@X[$j%16],1
add $f,$f,$t0

```

```

——
}

```

```

$code=<<____;
.machine "any"
.text

```

```

.globl .sha1_block_data_order
.align 4
.sha1_block_data_order:
$STU $sp,-$FRAME($sp)
mflr r0
$PUSH r15,`$FRAME-$SIZE_T*17`($sp)
$PUSH r16,`$FRAME-$SIZE_T*16`($sp)
$PUSH r17,`$FRAME-$SIZE_T*15`($sp)
$PUSH r18,`$FRAME-$SIZE_T*14`($sp)
$PUSH r19,`$FRAME-$SIZE_T*13`($sp)

```



```

$PUSH r20,`$FRAME-$SIZE_T*12`($sp)
$PUSH r21,`$FRAME-$SIZE_T*11`($sp)
$PUSH r22,`$FRAME-$SIZE_T*10`($sp)
$PUSH r23,`$FRAME-$SIZE_T*9`($sp)
$PUSH r24,`$FRAME-$SIZE_T*8`($sp)
$PUSH r25,`$FRAME-$SIZE_T*7`($sp)
$PUSH r26,`$FRAME-$SIZE_T*6`($sp)
$PUSH r27,`$FRAME-$SIZE_T*5`($sp)
$PUSH r28,`$FRAME-$SIZE_T*4`($sp)
$PUSH r29,`$FRAME-$SIZE_T*3`($sp)
$PUSH r30,`$FRAME-$SIZE_T*2`($sp)
$PUSH r31,`$FRAME-$SIZE_T*1`($sp)
$PUSH r0,`$FRAME+$LRSAVE`($sp)
lwz $A,0($ctx)
lwz $B,4($ctx)
lwz $C,8($ctx)
lwz $D,12($ctx)
lwz $E,16($ctx)
andi. r0,$inp,3
bne Lunaligned
Laligned:
mtctr $num
bl Lsha1_block_private
b Ldone

;
PowerPC specification allows an implementation to be ill-behaved
; upon unaligned access which crosses page boundary. "Better safe
; than sorry" principle makes me treat it specially. But I don't
; look for particular offending word, but rather for 64-byte input
; block which crosses the boundary. Once found that block is aligned
; and hashed separately...
.align 4
Lunaligned:
subfic $t1,$inp,4096
andi. $t1,$t1,4095 ; distance to closest page boundary
srwi. $t1,$t1,6 ; t1/=64
beq Lcross_page
$UCMP $num,$t1
ble- Laligned ; didn't
cross the page boundary
mtctr $t1
subfc $num,$t1,$num
bl Lsha1_block_private
Lcross_page:
li $t1,16
mtctr $t1
addi r20,$sp,$LOCALS ; spot within the frame

```



Lmemcpy:

```
lbz r16,0($inp)
lbz r17,1($inp)
lbz r18,2($inp)
lbz r19,3($inp)
addi $inp,$inp,4
stb r16,0(r20)
stb r17,1(r20)
stb r18,2(r20)
stb r19,3(r20)
addi r20,r20,4
bdnz Lmemcpy
```

```
$PUSH $inp,`$FRAME-$SIZE_T*18`($sp)
li $t1,1
addi $inp,$sp,$LOCALS
mtctr $t1
bl Lsha1_block_private
$POP $inp,`$FRAME-$SIZE_T*18`($sp)
addic. $num,$num,-1
bne- Lunaligned
```

Ldone:

```
$POP r0,`$FRAME+$LRSIZE`($sp)
$POP r15,`$FRAME-$SIZE_T*17`($sp)
$POP r16,`$FRAME-$SIZE_T*16`($sp)
$POP r17,`$FRAME-$SIZE_T*15`($sp)
$POP r18,`$FRAME-$SIZE_T*14`($sp)
$POP r19,`$FRAME-$SIZE_T*13`($sp)
$POP r20,`$FRAME-$SIZE_T*12`($sp)
$POP r21,`$FRAME-$SIZE_T*11`($sp)
$POP r22,`$FRAME-$SIZE_T*10`($sp)
$POP r23,`$FRAME-$SIZE_T*9`($sp)
$POP r24,`$FRAME-$SIZE_T*8`($sp)
$POP r25,`$FRAME-$SIZE_T*7`($sp)
$POP r26,`$FRAME-$SIZE_T*6`($sp)
$POP r27,`$FRAME-$SIZE_T*5`($sp)
$POP r28,`$FRAME-$SIZE_T*4`($sp)
$POP r29,`$FRAME-$SIZE_T*3`($sp)
$POP r30,`$FRAME-$SIZE_T*2`($sp)
$POP r31,`$FRAME-$SIZE_T*1`($sp)
mtlr r0
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,18,3,0
.long 0
```



```

#
This is private block function, which uses tailored calling
# interface, namely upon entry SHA_CTX is pre-loaded to given
# registers and counter register contains amount of chunks to
# digest...
$code.=<<<___;
.align 4
Lsha1_block_private:

___
$code.=<<<___; # load K_00_19
lis $K,0x5a82
ori $K,$K,0x7999

___
for(;$i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_20_39
lis $K,0x6ed9
ori $K,$K,0xeba1

___
for(;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_40_59
lis $K,0x8f1b
ori $K,$K,0xbcdc

___
for(;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_60_79
lis $K,0xca62
ori $K,$K,0xc1d6

___
for(;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V));
}
$code.=<<<___;
add r16,r16,$E
add r17,r17,$T
add r18,r18,$A
add r19,r19,$B
add r20,r20,$C
stw r16,0($ctx)
mr $A,r16
stw r17,4($ctx)
mr $B,r17
stw r18,8($ctx)
mr $C,r18
stw r19,12($ctx)
mr $D,r19
stw r20,16($ctx)
mr $E,r20
addi $inp,$inp,`16*4`

```



bdnz- Lsha1\_block\_private

blr

.long 0

.byte 0,12,0x14,0,0,0,0,0

\_\_\_\_\_  
\$code.=<<\_\_\_\_;

.asciz "SHA1 block transform for PPC, CRYPTOGRAMS by <appro\@fy.chalmers.se>"

\_\_\_\_\_  
\$code =~ s/\`([^\`]\*)\`/eval \$1/gem;

print \$code;

close STDOUT;

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6.2a.201703281752/fips/cmac/fips_cmactest.c
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/crypto/rsa/rsa_x931.c
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6.2a.201703281752/crypto/bn/bn_x931p.c
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6.2a.201703281752/fips/sha/fips_shatest.c
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/fips/rsa/fips_rsavtest.c

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6.2a.201703281752/fips/rsa/fips_rsa_lib.c
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/fips/dh/fips_dh_lib.c
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/fips/dsa/fips_dsa_lib.c
*
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
6.2a.201703281752/fips/rsa/fips_rsa_sign.c
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```

/*-----
* fips/kdf/fips_kdf_ikev2.c - IKEV2 KDF vector tests
*
* March 2015
*
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*-----
*/

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\*  
\* April 2015  
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 * kdf/kdf_tls.c - Key Derivation Function for TLS
 *
 * March 2015
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- \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/fips/sha/fips\_sha1\_selftest.c
- \* /opt/cola/permits/1096633347\_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/fips/des/fips\_des\_selftest.c
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```
/* -----
* crypto/sha/asm/sha1-octeon.c - Cavium Octeon specific hardware assist
* functionality that is to reside within the FIPS canister.
*
* January 2013
*
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\* kdf/kdf\_srtp.c - Key Derivation Function for SRTP

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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
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```

/*.<c>, <crypto/*/*.<c>, <ssl/*.<c>, <apps/*.<c>)

```

When this option is NOT specified, the filelist is taken from the commandline instead. Here, wildcards may be embedded. (Be sure to escape those to prevent the shell from expanding them



for you when you wish mkerr.pl to do so instead.)  
Default: take file list to scan from the command line.

-reindex     Discard the numeric values previously assigned to the error and function codes as extracted from the scanned header files; instead renumber all of them starting from 100. (Note that the numbers assigned through 'R' records in the config file remain intact.)  
Default: keep previously assigned numbers. (You are warned when collisions are detected.)

-nostatic     Generates a different source code, where these additional functions are generated for each library specified in the config file:  
    void ERR\_load\_<LIB>\_strings(void);  
    void ERR\_unload\_<LIB>\_strings(void);  
    void ERR\_<LIB>\_error(int f, int r, char \*fn, int ln);  
    #define <LIB>err(f,r) ERR\_<LIB>\_error(f,r,\_\_FILE\_\_,\_\_LINE\_\_)  
while the code facilitates the use of these in an environment where the error support routines are dynamically loaded at runtime.  
Default: 'static' code generation.

-staticloader Prefix generated functions with the 'static' scope modifier.  
Default: don't write any scope modifier prefix.

-write        Actually (over)write the generated code to the header and C source files as assigned to each library through the config file.  
Default: don't write.

-help / -h / -?     Show this help text.  
/ --help

...           Additional arguments are added to the file list to scan, assuming '-recurse' was NOT specified on the command line.

EOF

```
exit 1;  
} else {  
last;  
}  
}
```

```
if($recurse) {  
@source = ( <crypto/*.c>, <crypto/*/*.c>, <ssl/*.c>,  
    <fips/*.c>, <fips/*/*.c>);
```



```

} else {
    @source = @ARGV;
}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
    if(/^L\s+(\S+)\s+(\S+)\s+(\S+)/) {
        $hinc{$1} = $2;
        $libinc{$2} = $1;
        $cskip{$3} = $1;
        if($3 ne "NONE") {
            $csrc{$1} = $3;
            $fmax{$1} = 100;
            $rmax{$1} = 100;
            $fassigned{$1} = ":";
            $rassigned{$1} = ":";
            $fnew{$1} = 0;
            $rnew{$1} = 0;
        }
    } elsif (/^F\s+(\S+)/) {
        # Add extra function with $1
    } elsif (/^R\s+(\S+)\s+(\S+)/) {
        $rextra{$1} = $2;
        $rcodes{$1} = $2;
    }
}

close IN;

# Scan each header file in turn and make a list of error codes
# and function names

while (($hdr, $lib) =
    each %libinc)
{
    next if($hdr eq "NONE");
    print STDERR "Scanning header file $hdr\n" if $debug;
    my $line = "", $def= "", $linenr = 0, $gotfile = 0;
    if (open(IN, "<$hdr")) {
        $gotfile = 1;
        while(<IN>) {
            $linenr++;

```



```

print STDERR "line: $linenr\r" if $debug;

last if(/BEGIN\s+ERROR\s+CODES/);
if ($line ne "") {
    $_ = $line . $_;
    $line = "";
}

if (/\\$/) {
    $line = $_;
    next;
}

if (/^\/) {
    if (not /^\/) { # multiline comment...
        $line = $_; # ... just accumulate
        next;
    } else {
        s/^\/.*?\/\\gs; # wipe it
    }
}

if ($cpp) {
    $cpp++ if /^#\s*if/;
    $cpp-- if /^#\s*endif/;
    next;
}
$cpp = 1 if /^#\s*ifdef.*cplusplus/; # skip "C" declaration

next if (/^#/);          # skip preprocessor directives

s/{[^{]}*}\\gs;          # ignore {} blocks

if (/^{|\\\/) { # Add a } so editor works...
    $line = $_;
} else {
    $def .= $_;
}
}

print STDERR
"                \r" if $debug;

$defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+([\\w,\\s]+)/\\gs;
foreach (split /;/, $def) {
    $defnr++;
}

```



```

print STDERR "def: $defnr\r" if $debug;

# The goal is to collect function names from function declarations.

s/^\n\s]*//g;
s/[\n\s]*$/g;

# Skip over recognized non-function declarations
next if(/typedefW/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*_OF/);

# Remove STACK_OF(foo)
s/STACK_OF(\w+)/void/;

# Reduce argument lists to empty ()
# fold round brackets recursively: (t(*v)(t),t) -> (t{}{}),t) -> {}
while(/^(.*/s) {
s/([^\(\)]+)|\{\}/g;
s/(\s*\s*\s*(\w+)\s*\{\}\s*)/$1/g; #(*f{ }) -> f
}
# pretend as we didn't use curly braces: {} -> ()
s/{\}/()/g;

if (/(\w+)\s*(\s*)/s) { # first token prior [first] () is
my $name = $1; # a function name!
$name =~ tr/[a-z]/[A-Z]/;
$ftrans{$name} = $1;
} elsif (/[/\(\)]/)
and not (/=/) {
print STDERR "Header $hdr: cannot parse: $_;\n";
}
}

print STDERR "          \r" if $debug;

next if $reindex;

# Scan function and reason codes and store them: keep a note of the
# maximum code used.

if ($gotfile) {
while(<IN>) {
if(/^\#define\s+(\S+)\s+(\S+)/) {
$name = $1;
$code = $2;
next if $name =~ /^${lib}err/;
unless($name =~ /^${lib}_[RF])_(\w+)/) {
print STDERR "Invalid error code $name\n";
}
next;
}
}
}

```



```

}
if($1 eq "R") {
    $rcodes{$name} = $code;
    if ($rassigned{$lib} =~ /:$code:/) {
        print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
        ++$serrcount;
    }
    $rassigned{$lib} .= "$code:";
    if(!(exists $rextra{$name})) &&
        ($code > $rmax{$lib})) {
        $rmax{$lib} = $code;
    }
} else {
    if ($fassigned{$lib} =~ /:$code:/) {
        print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
        ++$serrcount;
    }
    $fassigned{$lib}
.= "$code:";
    if($code > $fmax{$lib}) {
        $fmax{$lib} = $code;
    }
    $fcodes{$name} = $code;
}
}
}

if ($debug) {
    if (defined($fmax{$lib})) {
        print STDERR "Max function code fmax" . "{" . "$lib" . " } = $fmax{$lib}\n";
        $fassigned{$lib} =~ m/^(.*):$/;
        @fassigned = sort {$a <=> $b} split(":", $1);
        print STDERR " @fassigned\n";
    }
    if (defined($rmax{$lib})) {
        print STDERR "Max reason code rmax" . "{" . "$lib" . " } = $rmax{$lib}\n";
        $rassigned{$lib} =~ m/^(.*):$/;
        @rassigned = sort {$a <=> $b} split(":", $1);
        print STDERR " @rassigned\n";
    }
}

if ($lib eq "SSL") {
    if ($rmax{$lib} >= 1000) {
        print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
        print STDERR "!! Any new alerts must be added to $config.\n";
        ++$serrcount;
    }
}

```



```

    print STDERR "\n";
}
}
close IN;
}

# Scan each C source file and look for function and reason codes
# This is done by looking for strings that
# "look like" function or
# reason codes: basically anything consisting of all upper case and
# numerics which has _F_ or _R_ in it and which has the name of an
# error library at the start. This seems to work fine except for the
# oddly named structure BIO_F_CTX which needs to be ignored.
# If a code doesn't exist in list compiled from headers then mark it
# with the value "X" as a place holder to give it a value later.
# Store all function and reason codes found in %ufcodes and %urcodes
# so all those unreferenced can be printed out.

foreach $file (@source) {
    # Don't parse the error source file.
    next if exists $cskip{$file};
    print STDERR "File loaded: ".$file."\r" if $debug;
    open(IN, "<$file") || die "Can't open source file $file\n";
    while(<IN>) {
        # skip obsoleted source files entirely!
        last if(/^#error\s+obsolete/);

        if(/([A-Z0-9]+)_F_([A-Z0-9_]+)/) {
            next unless exists $csrc{$2};
            next if($1 eq "BIO_F_BUFFER_CTX");
            $ufcodes{$1} = 1;
            if(!exists $fcodes{$1}) {
                {
                    $fcodes{$1} = "X";
                    $fnew{$2}++;
                }
                $notrans{$1} = 1 unless exists $ftrans{$3};
                print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
            }
        }
        if(/([A-Z0-9]+)_R_([A-Z0-9_]+)/) {
            next unless exists $csrc{$2};
            $urcodes{$1} = 1;
            if(!exists $rcodes{$1}) {
                {
                    $rcodes{$1} = "X";
                    $rnew{$2}++;
                }
                print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
            }
        }
    }
}

```



```

    }
    }
    close IN;
}
print STDERR "                \n" if $debug;

# Now process each library in turn.

foreach $lib (keys %csrc)
{
    my $hfile = $hinc{$lib};
    my $cfile = $csrc{$lib};
    if(!$fnew{$lib} && !$rnew{$lib}) {
        print STDERR "lib:\t\tNo new error codes\n";
        next unless $rebuild;
    } else {
        print STDERR "lib:\t\t$fnew{$lib} New Functions,";
        print STDERR " $rnew{$lib} New Reasons.\n";
        next unless $dowrite;
    }
}

# If we get here then we have some new error codes so we
# need to rebuild the header file and C file.

# Make a sorted list of error and
reason codes for later use.

my @function = sort grep(/^${lib}_/,keys %fcodes);
my @reasons = sort grep(/^${lib}_/,keys %rcodes);

# Rewrite the header file

if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {
        push @out, $_;
        last if (/BEGIN ERROR CODES/);
    }
    close IN;
} else {
    push @out,
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" *\n",

```



```

" *\n",
"\n",
"#ifndef HEADER_${lib}_ERR_H\n",
"#define HEADER_${lib}_ERR_H\n",
"\n",
#ifdef __cplusplus\n",
"extern \"C\" {\n",
"#endif\n",
"\n",
/* BEGIN ERROR CODES *\n";
}

open (OUT, ">$hfile") || die "Can't Open File $hfile for writing\n";

print OUT @out;
undef @out;
print OUT <<"EOF";
/* The following lines are auto generated by the script mkerr.pl. Any changes
* made after this point may be overwritten when the script is next run.
*/
EOF
if($static) {
    print OUT <<"EOF";
    ${staticloader}void ERR_load_${lib}_strings(void);

EOF
} else {
    print OUT <<"EOF";
    ${staticloader}void ERR_load_${lib}_strings(void);
    ${staticloader}void ERR_unload_${lib}_strings(void);
    ${staticloader}void ERR_${lib}_error(int function, int reason, char
    *file, int line);
    #define ${lib}err(f,r) ERR_${lib}_error((f),(r),__FILE__,__LINE__)

EOF
}
print OUT <<"EOF";
/* Error codes for the $lib functions. */

/* Function codes. */
EOF

foreach $i (@function) {
    $z=6-int(length($i)/8);
    if($fcodes{$i} eq "X") {
        $fassigned{$lib} =~ m/^(:[^:]*)/;
        $findcode = $1;
        if (!defined($findcode)) {
            $findcode = $fmax{$lib};

```



```

}
while ($fassigned{$lib} =~ m/.$findcode:/) {
    $findcode++;
}
$fcodes{$i} = $findcode;
$fassigned{$lib} .= "$findcode:";
print STDERR "New Function code $i\n" if $debug;
}
printf OUT "#define $i%s $fcodes{$i}\n", "\t" x $z;
}

```

```

print OUT "\n/* Reason codes. */\n";

```

```

foreach $i (@reasons) {
    $z=6-int(length($i)/8);
    if($rcodes{$i} eq "X") {
        $rassigned{$lib} =~ m/^(.[^:]*):/;
        $findcode = $1;
        if (!defined($findcode)) {
            $findcode = $rmax{$lib};
        }
        while ($rassigned{$lib} =~ m/.$findcode:/) {
            $findcode++;
        }
        $rcodes{$i} = $findcode;
        $rassigned{$lib} .= "$findcode:";
        print
STDERR "New Reason code $i\n" if $debug;
    }
    printf OUT "#define $i%s $rcodes{$i}\n", "\t" x $z;
}
print OUT <<"EOF";

```

```

#ifdef __cplusplus
}
#endif
#endif
EOF
close OUT;

```

# Rewrite the C source file containing the error details.

```

# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$file")) {
    while (<IN>) {
        if (/^b($lib)_R_\w*)\b.*\(".*")/) {
            $err_reason_strings{$1} = $2;

```



```

}
if (/^b${lib}_F_(w*)b.*\"(.*)\"/) {
if (!exists $ftrans{$1} && ($1 ne $2)) {
    print STDERR "WARNING: Mismatched function string $2\n";
    $ftrans{$1} = $2;
}
}
}
close(IN);
}

```

```

my $hincf;
if($static) {
    $hfile =~ /^([^\|]+)$/;
    $hincf = "<${hprefix}$1>";
} else {
    $hincf = "\"$hfile\"";
}

```

# If static we know the error code at compile time so use it  
# in error definitions.

```

if ($static)
{
    $pack_errcode = "ERR_LIB_${lib}";
    $load_errcode = "0";
}
else
{
    $pack_errcode = "0";
    $load_errcode = "ERR_LIB_${lib}";
}

```

```

open
(OUT,">$cfile") || die "Can't open $cfile for writing";

```

```

print OUT <<"EOF";
/* $cfile */
/* =====
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```

/* NOTE: this file was auto generated by the mkerr.pl script: any changes
* made to it will be overwritten when the script next updates this file,
* only reason strings will be preserved.
*/

```

```

#include <stdio.h>
#include <openssl/err.h>
#include
$hincf

```

```

/* BEGIN ERROR CODES */
#ifndef OPENSSL_NO_ERR

```

```

#define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
#define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

```

```

static ERR_STRING_DATA ${lib}_str_funcs[]=
{
EOF
# Add each function code: if a function name is found then use it.
foreach $i (@function) {
my $fn;
$i =~ /^${lib}_F_(\S+)/;
$fn = $1;
if(exists $ftrans{$fn}) {
$fn = $ftrans{$fn};
}
# print OUT "{ERR_PACK($pack_errcode,$i,0),\t\"$fn\"},\n";
print OUT "{ERR_FUNC($i),\t\"$fn\"},\n";
}
print OUT <<"EOF";
{0,NULL}
};

```

```

static ERR_STRING_DATA ${lib}_str_reasons[]=
{
EOF
# Add each reason code.
foreach $i (@reasons) {
my $rn;
my $rstr = "ERR_REASON($i)";
my $nspc = 0;
if (exists $err_reason_strings{$i}) {
$rn = $err_reason_strings{$i};
} else {
$i =~ /^${lib}_R_(\S+)/;
$rn = $1;
$rn =~ tr/_/[A-Z]/ [a-z]/;

```



```

    }
    $nspc = 40 - length($rstr) unless length($rstr) > 40;
    $nspc = " " x $nspc;
    print OUT "${rstr}${nspc},\"$rn\"",\n";
    }
if($static)
{
    print OUT <<"EOF";
    {0,NULL}
};

#endif

${staticloader}void ERR_load_${lib}_strings(void)
{
#ifdef OPENSSL_NO_ERR

    if (ERR_func_error_string(${lib}_str_functs[0].error) == NULL)
    {
        ERR_load_strings($load_errcode,${lib}_str_functs);
        ERR_load_strings($load_errcode,${lib}_str_reasons);
    }
#endif
}
EOF
} else {
    print OUT <<"EOF";
    {0,NULL}
};

#endif

#ifdef ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[]=
{
    {0,${lib}_LIB_NAME},
    {0,NULL}
};
#endif

static int ${lib}_lib_error_code=0;
static int ${lib}_error_init=1;

${staticloader}void ERR_load_${lib}_strings(void)
{
    if (${lib}_lib_error_code == 0)
        ${lib}_lib_error_code=ERR_get_next_error_library();

```



```

if (${lib}_error_init)
{
    ${lib}_error_init=0;
#ifdef OPENSSSL_NO_ERR
    ERR_load_strings(${lib}_lib_error_code,${lib}_str_functs);
    ERR_load_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif

#ifdef ${lib}_LIB_NAME
    ${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code,0,0);
    ERR_load_strings(0,${lib}_lib_name);
#endif
}
}

${staticloader}void
ERR_unload_${lib}_strings(void)
{
    if (${lib}_error_init == 0)
    {
#ifdef OPENSSSL_NO_ERR
        ERR_unload_strings(${lib}_lib_error_code,${lib}_str_functs);
        ERR_unload_strings(${lib}_lib_error_code,${lib}_str_reasons);
#endif
    }

#ifdef ${lib}_LIB_NAME
        ERR_unload_strings(0,${lib}_lib_name);
    #endif
    ${lib}_error_init=1;
}
}

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
    if (${lib}_lib_error_code == 0)
        ${lib}_lib_error_code=ERR_get_next_error_library();
    ERR_PUT_error(${lib}_lib_error_code,function,reason,file,line);
}
EOF

}

close OUT;
undef %err_reason_strings;
}

if($debug && defined(%notrans)) {

```



```

print STDERR "The following function codes were not translated:\n";
foreach(sort keys %notrans)
{
    print STDERR "$_\n";
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
    push (@funref, $_) unless exists $ufcodes{$_};
}

foreach
(keys %rcodes) {
    push (@runref, $_) unless exists $urcodes{$_};
}

if($debug && defined(@funref) ) {
    print STDERR "The following function codes were not referenced:\n";
    foreach(sort @funref)
    {
        print STDERR "$_\n";
    }
}

if($debug && defined(@runref) ) {
    print STDERR "The following reason codes were not referenced:\n";
    foreach(sort @runref)
    {
        print STDERR "$_\n";
    }
}

if($errcount) {
    print STDERR "There were errors, failing...\n\n";
    exit $errcount;
}

Found in path(s):
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
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/*
* Utilities for constant-time cryptography.
*
* Author: Emilia Kasper (emilia@openssl.org)

```



\* Based on previous work by Bodo Moeller, Emilia Kasper, Adam Langley

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6.2a.201703281752/crypto/symhacks.h
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-
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\* fips/kdf/fips\_kdf\_srtp.c - SRTP KDF vector tests

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\* crypto/aes/asm/aes\_cbc-octeon.c - Cavium Octeon specific hardware assist

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```
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* crypto/des/asm/cbc_enc-octeon.c - Cavium Octeon specific hardware assist  
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*  
* January 2013  
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* crypto/sha/asm/sha256-octeon.c - Cavium Octeon specific hardware assist  
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```
/*-----  
* kdf/kdf.h - Key Derivation Function header file  
*  
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* fips/kdf/fips_kdf_tls.c - TLS KDF vector tests
*
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* crypto/aes/asm/aes_ctr-octeon.c - Cavium Octeon specific hardware assist
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\* kdf/kdf\_802\_11i.c - Key Derivation Function for 802.11i

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tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>



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Revision 4.4.12, released 2019-09-24

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- Fixed broken SNMPv3 `msgFlag` initialization on authoritative SNMP engine ID discovery. This bug causes secure communication with peer SNMP engines to stall at SNMP engine ID discovery procedure.

Revision 4.4.11, released 2019-08-10

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- Added SNMPv3 USM master and localized keys support to LCD configuration  
- Improved initial and runtime USM debugging  
- Fixed a bug in USM configuration which did not allow the same user names to be added under different security names

Revision 4.4.10, released 2019-07-29

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- Reworked VACM access control function. Most important changes include:

- \* Added subtree match negation support (vacmViewTreeFamilyType)
- \* Added subtree family mask support (vacmViewTreeFamilyMask)
- \* Added prefix content name matching support (vacmAccessContextMatch)
- \* Added key VACM tables caching for better `isAccessAllowed` lookup performance

One potential incompatibility may be caused by the `addContext()` call which now needs to be made explicitly during low-level VACM configuration rather than be a side effect of `addVacmAccess()` call.

- Rebased MIB importing code onto `importlib` because `imp` is long deprecated



- Received MIB objects resolution made more forgiving to errors, added optional ``ignoreErrors`` parameter to ``ObjectType.resolveWithMib()`` to control that behaviour.
- Fixed `asyncore` main loop to respect non-default timer resolution
- Fixed ``setTimerResolution()`` behaviour of abstract main loop dispatcher to update call intervals of the existing periodic dispatcher jobs
- Fixed ``var-bindings`` initialization to prevent `pyasn1` encoder failures with newer `pyasn1` versions where ``SequenceOf`` type loses its default initializer.
- Fixed crash on uninitialized component serialization left out in SNMP v1 TRAP PDU to SNMPv2/3 TRAP PDU proxy translation routine.

Revision 4.4.9, released 2019-02-09

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- Made MIB loader ignoring file and directory access errors
- Added missing SNMP PDU error classes and their handling in Command Responder
- Fixed crash on MIB load failure in case of directory access error
- Fixed socket transparency option (`IPV6_TRANSPARENT`) to make IPv6 transparent operation functional

Revision 4.4.8, released 2018-12-30

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- Fixed Pythonized MIB load (in the source form) - made sure to turn it into a code object prior to its execution

Revision 4.4.7, released 2018-12-29

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- Copyright notice extended to the year 2019
- Exposed ASN.1 ``Null`` type through ``rfc1902`` module for convenience.
- Use ``compile()`` before ``exec``'ing MIB modules to attach filename to the stack frames (ultimately shown in traceback/debugger)
- Fixed `hlapi/v3arch` transport target caching to ensure transport targets are different even if just `timeout/retries` options differ
- Fixed `hlapi` LCD configurator to include ``contextName``. Prior to this fix sending SNMPv3 TRAP with non-default ``contextName`` would fail.
- Fixed possible duplicate key occurrence in the ``OrderedDict`` following a race condition
- Fixed undefined name references in ``inet_pton`/`inet_ntop`` substitute routines for IPv6 in ``TRANSPORT-ADDRESS-MIB.py``

Revision 4.4.6, released 2018-09-13

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- Improved package build and dependency tracking
- Fixed missing LICENSE from the tarball distribution
- Fixed `CommandGeneratorLcdConfigurator.unconfigure()` to fully clean up internal caches, otherwise repetitive attempts to configure the target would fail.
- Fix to tolerate possible duplicate enumerations in ``Bits`` and ``Integer`` SMI types.
- Fix to tolerate non-initialised entries in SNMP community table. Once a bad entry sneaked into the SNMP community table, all the subsequent SNMP v1/v2c operations failed. The fix ignores incomplete SNMP community table entries in the course of building indices.

Revision 4.4.5, released 2018-08-05

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- Added `PySnmpError.cause` attribute holding parent exception tuple
- Fixed broken `InetAddressType` rendering caused by a pyasn1 regression
- Fixed typo in RFC1158 module
- Fixed possible infinite loop in GETBULK response PDU builder
- Fixed memory leak in the ``config.delContext()`` VACM management harness
- Fixed ``Bits`` class initialization when enumeration values are given
- Fixed crash caused by incoming SNMPv3 message requesting SNMPv1/v2c security model
- Fixed out-of-scope OIDs leaking at the end of SNMP table at `hlapi`nextCmd`` and ``bulkCmd`` calls when ``lexicographicMode = False``

Revision 4.4.4, released 2018-01-03

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- Copyright notice extended to the year 2018
- Fixed short local key expansion at 3DES key localization implementation.

Revision

4.4.3, released 2017-12-22

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- Migrated references from SourceForge
- Added missing SHA2 support for Blumenthal key localization
- Fixed named bits handling at `rfc1902.Bits`
- Fixed missing `SmiError` exception class at `pysnmp.proto.rfc1155`
- Fixed SNMP v1->v2c PDU proxy -- error-status & error-index fields from v1 PDU get copied over to v2c PDU in addition to the exception sentinels being set

Revision 4.4.2, released 2017-11-11

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- The pysnmp version being used gets exposed to the MIB modules via the `MibBuilder` instance
- The .setObjects() method of the SMI types now accepts `append=False` parameter to let the caller adding more than 255 elements over the course of multiple calls
- Added support for some more missing fields of SMIV2 MACRO types
- Example scripts rearranged in a way that IPv6 requirement is clearly encoded in the script's name
- Fixed SNMPv2-SMI.NotificationType to expose .set/getReference() instead of .set/getRevision() which should not be there in the first place
- Fixed non-implied-OID encoding in SNMP table indices
- Fixed inconsistent SNMPv3 discovery and retrying algorithm

Revision 4.4.1, released 2017-10-23

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- HMAC-SHA-2 Authentication Protocols support added (RFC-7860)
- The pycryptodome dependency replaced with pycryptodomex as it is recommended by the upstream to avoid unwanted interference with PyCrypto package should it also be installed
- Sphinx theme changed to Alabaster in the documentation
- Minor adjustments towards pyasn1 0.4.x compatibility
- Fixed ObjectIdentifier-into-ObjectIdentity casting at rfc1902.ObjectType MIB resolution harness
- Fixed NetworkAddress object handling in SNMP table indices
- Fixed MIB lookup by module:object.indices MIB object with InetAddressIPv{4,6} objects being in the index
- Fixed non-translated PDU being retries at CommandGenerator what leads to wrong PDU version being sent and even a crash on incompatible PDU/SNMP message combination

Revision 4.3.10, released 2017-10-06

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- Refactored partial SNMP message decoding to make it less dependent on unpublished pyasn1 API features.
- Fix to MibTableRow.setFromName() to keep the input parameter type when it propagates to the return value. Before this fix ObjectIdentity.prettyPrint() may crash when rendering malformed SNMP table indices.
- Fixed NotificationReceiver to include SNMPv1 TRAP Message community string into SNMPv2c/v3 TRAP PDU
- Fixed multiple bugs in SNMP table indices rendering, especially the InetAddressIPv6 type which was severely broken.
- Fixed crashing Bits.prettyPrint() implementation



- Fixed crashing Bits.clone()/subtype() implementation
- Fixed leaking exceptions bubbling up from the asyncio and Twisted adapters

Revision 4.3.9, released 2017-07-26

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- Deprecated UsmUserData initialization parameters removed
- Adapted to pyasn1 API changes introduced by release 0.3.1
- Fix to a crash happening on inbound SNMP message having non-initialized fields
- Fix to (persistent SNMP engine ID) file writing on Windows

Revision 4.3.8, released 2017-06-15

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- Security fix to the bug introduced in 4.3.6: msgAuthoritativeEngineTime stopped changing over time and was returning the same timestamp (process start time). This fix makes it growing as it should.

Revision 4.3.7, released 2017-05-29

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- \* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28

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- More instrumentation hooks added addressing security failures auditing needs.
- SNMP table indices correlation implemented within SMI framework. The opaque InetAddress type implemented. INET-ADDRESS-MIB included into the distribution.
- SNMP table indices resolution logic made more robust against malformed indices.
- Fixes to \*lexicographicMode\* option documentation to make it unambiguous.
- The `ErrorIndication` object is now derived from `Exception` so that it could be raised in exceptions.
- The `errorIndication` values produced by various parts of SNMP engine unified to be `ErrorIndication` instances. This fixes an issue with Twisted.
- Embedded MIB modules rebuilt with the latest pysmi adding previously missing attributes like `status`, `description` etc.
- Fixed potential SNMP engine crash on handling incoming message at unsupported security level

Revision 4.3.5, released 2017-03-24



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- The getNext() and getBulk() calls of Twisted interface.  
now support ignoreNonIncreasingOid option.
  - TextualConvention is now a new-style class.
  - Fix to accidentally reset error-status when building confirmed class  
SNMPv1 PDU.
  - Fix to possible infinite recursion in TextualConvention.prettyIn().
  - Fixed crash when attempting  
to report unsupported request/notification  
PDU back to sender.

Revision 4.3.4, released 2017-03-01

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- Fix to low-level SNMP API example to accommodate changed pyasn1  
SEQUENCE supporting iterator protocol.
- The pyasn1 version dependency bumped (0.2.3), SEQUENCE/SEQUENCE OF  
API calls adjusted to accommodate changed pyasn1 API (in part  
of .setComponentBy\*() kw flags).
- Fixed crash on SNMP engine's invalid message counter increment.

Revision 4.3.3, released 2017-02-04

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- Switched from now unmaintained PyCrypto to PyCryptodome.
- Switched to new-style classes.
- NotificationType now allows additional var-binds specified as  
MIB objects. A side effect of this change is that additional  
var-binds can only be added prior to .resolveMibObjects() is  
run.
- Non-standard (but apparently used by many vendors) Reeder AES192/256  
key localization algorithm implemented and set as default for  
usmAesCfb192Protocol  
and usmAesCfb256Protocol identifiers.  
Original and more standard implementation can still be used  
with the usmAesBlumenthalCfb192Protocol and  
usmAesBlumenthalCfb192Protocol IDs respectively.
- TextualConvention.prettyOut() improved to produce prettier and  
more SMI-compliant output.
- TextualConvention.prettyIn() implemented to handle DISPLAY-HINT  
based value parsing.
- Fix to NotificationType to make additional var-binds overriding  
MIB objects implicitly included through NOTIFICATION-TYPE OBJECTS.
- Fix to SNMP engine boots counter persistence on Python 3.
- Fix to Pythonized MIBs loading when only .pyc files are  
present (e.g. py2exe/cx\_freeze environments).
- Fix broken 3DES key localization and encryption procedures.



- Updated IP address for demo.snmplabs.com in examples.
- Missing index added to bundled RFC1213::atEntry MIB table.
- Twisted integration made Python3 compatible.
- Accommodated ASN.1 SEQUENCE iteration rules change in upcoming pyasn1 version.
- 
- Author's email changed, copyright extended to 2017.

Revision 4.3.2, released 2016-02-12

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- Copyright notice added to non-trivial source code files.
- SNMP table row consistency check added. This change may break valid SNMP SET operations on tables if RowStatus column is not passed at the very end of var-binds.
- All SNMP counters now incremented via '+= 1' rather than 'x = x + 1' to simplify their tracking by third-party code.
- Notification originator examples re-pointed to Notification Receiver at demo.snmplabs.com.
- Two more execution observer points added: rfc2576.processIncomingMsg and rfc3414.processIncomingMsg to give an insight on security modules internals.
- TEXTUAL-CONVENTION's DISPLAY-HINT text formatting reworked for better performance and encoding accuracy of 'a' and 't' formats.
- WARNING: security fix to USM - extra user entry clone removed on incoming message processing. It made USM accepting SNMPv3 TRAPs from unknown SNMP engine IDs.
- Fix to snmpInvalidMsgs and snmpUnknownSecurityModels MIB symbols import at SNMPv3 MP model.
- Fix to NotificationOriginator to cope with unspecified user callable.
- Fix to OctetString.prettyOut() to pretty-print Python 3 bytes without 'b' qualifier.
- Fix to better pysmi import errors handling.
- Fix to missing next() in Python 2.5 at pysnmp.hlapi

Revision 4.3.1, released 2015-11-12

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- Added recursive resolution of ObjectIdentifier values at ObjectType by converting it to ObjectIdentity.
- A bunch of convenience shortcuts to rfc1902.ObjectIdentity added from rfc1902.ObjectType and rfc1902.NotificationType (.addAsn1MibSource(), .addMibSource(), .loadMibs())
- When pretty printing indices at rfc1902.ObjectType, quote only strings.
- SNMP overview and PySNMP hlapi tutorial added to documentation.
- Fix to \_\_doc\_\_ use in setup.py to make -O0 installation mode working.
- Fix to ObjectIdentity->ObjectIdentifier attributes



handover

- Fixed crash at oneliner compatibility code on EOM response.
- Fixed crash in hlapi.transport module.
- Fixed OID resolution issues that roots at node 0 and 2.
- Fix to MIB builder to fail gracefully on corrupted MIB package encounter.
- Fix to docs distribution -- now the are Sphinx-buildable out-of-the-box.
- Source code re-linted

Revision 4.3.0, released 2015-09-28

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- Critical error fixed in key localization procedure for AES192/AES256/3DES cyphers. Previous versions might never worked properly in this respect.
- Initial PySMI integration. Original ASN.1 MIBs could now be parsed, stored at a local pysnmp MIBs repository and loaded into SNMP Engine. Relevant example scripts added. Obsolete libsmi-based scripts removed.
- Major rewrite of native SNMPv3 CommandGenerator and NotificationOriginator applications towards the following goals:

- \* avoid binding to specific SNMP engine instance to promote single SNMP app instance

using many SNMP engine instances

- \* support two APIs for working with request data: one operates on the whole PDU object while the other on PDU contents

- \* keep callback context data in stack rather than in stateful application cache

- \* newly introduced sendVarBinds() method offers a more functional and logical signatures.

- \* Promote the use of dedicated classes for dealing with OID-value pairs. Instances of those classes resemble OBJECT-IDENTITY, OBJECT-TYPE and NOTIFICATION-TYPE MIB structures.

- \* Oneliner API reworked to become more generic: its LCD configuration shortcuts and and var-bindings processing code split off SNMP apps classes to stand-alone objects. The whole API also moved up in package naming hierarchy and becomes 'pysnmp.hlapi.asyncore' (hlapi is apparently an African fish). Old oneliner API remains fully operational at its original location.

- \* Synchronous oneliner apps redesigned to offer Python generator-based API along

with a more comprehensive set of accepted parameters.

- \* Asyncore-based asynchronous apps reworked to become functions.

- \* Twisted API moved entirely into high-level domain to be aligned with other high-level APIs. This WILL BREAK backward compatibility for those apps that use Twisted API.

- \* Keep backward compatibility for all existing major/documented interfaces

- Sphinx documentation added to source code and example scripts. Library documentation converted from .html into RsT markup.



- Execution Observer facility implemented to give app an inside view of SNMP engine inner workings. This is thought to be a generic framework for viewing (and modifying) various internal states of pysnmp engine. Previously introduced non-standard APIs (like getting peer's transport endpoint which is not suggested in RFCs) will be gradually migrated to this new framework.
- Initial support for the asyncio & Trollius frameworks and coroutines-based SNMP Applications interfaces added. Both IPv4 and IPv6 datagram transports are currently supported.
- Original asynsock transport and AsyncsockDispatcher renamed into asyncore and AsyncoreDispatcher respectively to provide better hint to fellow devs on the underlying transport being used. Backward compatibility preserved.
- The asyncore-based transport subsystem extended to support POSIX sendmsg()/recvmsg() based socket communication what could be used, among other things, in the context of a transparent SNMP proxy application. Technically, the following features were brought into pysnmp with this update:
  - \* Sending SNMP packets from a non-local IP address
  - \* Receiving IP packets for non-local IP addresses
  - \* Responding to SNMP requests from exactly the same IP address the query was sent to. This proves to be useful when listening on both primary and secondary IP interfaces.
- Internal oneliner apps configuration cache moved from respective apps objects to [a singular] snmpEngine "user context" object. That would allow for better cache reuse and allow for a single app working with many snmpEngine instances.
- Oneliner GETBULK Command Generator now strips possible excessive OIDs off the bottom of returned var-binds table.
- Constraints assignment shortcut added to some base rfc1902 types (Integer, Integer32, OctetString, Bits). That formally constitutes ASN.1 sub-typing.
- Built-in debugging is now based on Python logging module.
- Examples on a single Transport Dispatcher use with multiple SnmpEngine instances applicatons added.
- Example script on transport timeout & retries manipulation added.
- Example script explaining incoming message's communityName re-mapping added.
- Broadcast socket option can now be enabled with the .enableBroadcast() call for any datagram-based transport (namely, UDP and UDP6).
- AbstractTransportDispatcher's jobStarted() and jobFinished() methods now accept optional 'count' parameter which is a way for an app to indicate how many responses are expected or have been processed in bulk.
- Example script on SNMP Agents UDP broadcast-based discovery added.
- Oneliner transport object now supports setLocalAddress() method to force socket binding to specified local interface.



- New public `DgramSocketTransport.getLocalAddress()` returns local endpoint address underlying BSD socket is currently bound to.
  - Passing request details to access control callback at `CommandResponder` reworked towards more robust and simple design with the execution observer facility.
  - All MIBs rebuilt with `pysmi`.
  - MIB instrumentation example improved to cover table index building facility.
  - Handle the case of null writer at `Debug` printer.
  - Do not cache `snmpEngineId` & `snmpAdminString` at `CommandGenerator` to let it be reused with many different `snmpEngines`.
  - TRAP PDU agent address evaluation at `proto.api` made lazy to improve startup time.
  - Multiple fixes to verify `pyasn1` `decoder.decode()` return to withstand broken SNMP messages or its components.
  - First attempt made to make some of SNMP Engine settings persistent across reboots.
  - Make `config.delTransport()` returning detached transport object. Asyncio examples now use this facility to explicitly shutdown transport object.
  - Parts of SMIV1 remnant MIBs (RFC1213-MIB, RFC1158-MIB) added to provide complete compatibility with SMIV1. Symbols defined in these MIBs only present in SMIV1 so they can't be substituted with their SMIV2 analogues.
  - `MibBuilder.addMibSources()` convenience method added.
  - The `smi.MibBuilder()` will now raise more specific exceptions (`MibLoadError`, `MibNotFoundError`) on MIB loading problems rather than more generic `SmiError`.
  - The oneliner's `MibVariable` MIB lookup subsystem redesigned for more generality to mimic OBJECT-TYPE macro capabilities related to SNMP PDU handling. The two new classes are `ObjectIdentity` and `ObjectType`. The `ObjectIdentity` class additionally supports just a MIB module name initializer in which case it resolves into either first or last symbol in given MIB. Another option is just a MIB symbol initializer without specifying MIB module.
- This new subsystem is moved from the scope of oneliner to more common `pysnmp.smi.rfc1903` scope to more naturally invoke it from whatever part of `pysnmp` requires MIB services.
- `MibBuilder` now prepends the contents of environment variables it recognizes (`PYSNMP_MIB_DIR`, `PYSNMP_MIB_DIRS`, `PYSNMP_MIB_PKGS`) rather than using them instead of its default core MIBs.
  - Removed `RowStatus` default value as it may collide with possible subclass constraints.
  - A few additional MIB tree management methods added to `MibViewController` to better address ordered nature of MIB tree nodes (namely, `getFirst*`, `getLast*` family of methods).
  - Wheel distribution format now supported.
  - Fix to authoritative engine side `snmpEngineID` discovery procedure: respond with `notInTimeWindows` rather than with `unsupportedSecurityLevel`



at time synchronization

phase.

- Fix to rfc1902.Bits type to make it accepting hex and binary initializers, cope with missing bits identifiers at prettyPrint().
- Memory leak fixed in CommandForwarder examples.
- Fix to BULK CommandGenerator to use the same nonRepeaters OIDs across multiple GETBULK iterations so returned table for nonRepeaters columns would hold the same var-bind.
- Fix to CommandGenerator to make sendRequestHandle persistent across multiple iterations of GETNEXT/GETBULK queries.
- Fix to sendNotification() error handling at NotificationOriginator.
- Fix to preserve possible 'fixed length' setting at rfc1902.OctetString on clone()'ing and subtype()'ing.
- Fix to rfc1902.OctetString & Bits to base them on OctetString class to make the 'fixed length' property working.
- Fix to .clone() method of rfc1902.Bits class to make its signature matching the rest of classes. This may broke code which used to pass namedValue parameter positionally rather than binding it by name.
- 
- Fix to PDU translation service (proto.proxy.rfc2576) to make it initializing errorIndex & errorStatus components of the resulting PDU.
- Fix to MsgAndPduDispatcher.sendPdu() to clean up request queue on pysnmp-level processing failure.
- Fix to SNMPv1/v2c message processing subsystem to make it serving unique PDU request-id's in both outgoing and incoming confirmed and response PDU types. Duplicate request-id's in unrelated PDUs may cause cache errors otherwise.
- Fix to licensing terms of multiple twisted backend modules to make the whole pysnmp package licensed under BSD 2-Clause license. This change has been explicitly permitted by the original modules authors.
- Fix to asyncore-based transport not to use asyncore's cheap inheritance from socket object what caused warnings.
- Fix at NotificationOriginator to make is using MibInstrumentationController when expanding Notification OBJECTS into Managed Objects Instances.
- Missing wrongLength and wrongEncoding SMI errors added.
- Fix to file descriptor leak at MibBuilder.
- Fix to rfc2576.v2ToV1() to ignore impossible errorStatus.
- Fix to rfc2576.v1ToV2() to reset ErrorStatus==noSuchName on proxying.
- Fix to smi.builder to explicitly fail on any MIB file access error (but ENOENT) and raise IOError uniformly on any directory/egg access failure.
- Fix to infinite loop at config.delV3User().

Revision 4.2.5, released 2013-10-02

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- License updated to vanilla BSD 2-Clause to ease package use



(<http://opensource.org/licenses/BSD-2-Clause>).

- A dozen of lightweight Twisted-based example scripts replaced more complex example implementations used previously.
- SNMP Proxy example apps separated into a larger set of more specialized ones.
- Most of Command Generator examples re-pointed to a live SNMP Agent at [demo.snmp4j.com](http://demo.snmp4j.com) to ease experimentation and adoption.
- Multithreaded oneliner CommandGenerator example added.
- Packet-level SNMP API (`pysnmp.proto.api`)  
`getErrorIndex()` method can now  
be instructed to ignore potentially malformed errorIndex SNMP packet  
value what sometimes happens with buggy SNMP implementations.
- Standard SNMP Apps and built-in proxy now ignores malformed errorIndex  
value.
- Built-in logging now includes timestamps.
- Multi-lingual capabilities of all CommandGenerator & NotificationOriginator  
apps re-worked and improved. For instance it is now it's possible to run  
`getBulk()` against a SNMPv1 Agent invoking built-in SNMP Proxy behind the  
scene.
- The `$PYSNMP_MIB_DIR` & `$PYSNMP_MIB_DIRS` & `$PYSNMP_MIB_PKGS` path separator  
made platform-specific.
- Change to `rfc2576.v1tov2()` logic: `errorStatus = noSuchName` is now  
translated into `rfc1905.noSuchObject` exception value for `*all*` var-bindings  
at once. Although RFC2576 does not suggest error-status -> v2c exception  
translation, historically pysnmp used to perform it for a long time so we  
can't easily stop doing that.
- Exception re-raising improved  
at `MibInstrumController.flipFlopFsm()` and  
`asynsock/twisted` dispatchers so that original traceback is preserved.
- A single instance of transport dispatcher can now serve multiple  
receivers (identified by IDs) chosen by a public data routing method.
- `SnmEngine.[un]registerTransportDispatcher()` methods now accept optional  
receiver ID token to be used by transport dispatcher's data router. This  
allows for multiple SNMP engines registration with a single transport  
dispatcher.
- `Distribute` is gone, switched to `setuptools` completely.
- The `snmpCommunityTable` row selection improved to follow RFC2576, clause  
5.2.1.
- Asyncore-based dispatcher attempts to use `poll()` whenever available  
on the platform. It would help handling a really large number (>1024)  
of file descriptors.
- `AsyncCommandGenerator.makeReadVarBinds()` generalized into a new  
`makeVarBinds()` method which replaces somewhat redundant code at `setCmd()`  
and `AsyncNotificationOriginator.sendNotification()`.
- `AsyncCommandGenerator.uncfgCmdGen()`  
& `AsyncNotificationOriginator.uncfgCmdGen()`  
methods now accept optional `authData` parameter to remove specific entries  
from LCD. This can be useful for modifying security parameters for



specific securityName.

- SNMP credentials management reworked to separate userName from securityName in snmpCommunityEntry and usmUserEntry tables. Changes made to addV1System(), addV3User() functions as well as to their oneliner's wrappers.
- The contextEngineId parameter of config.addV3User() and auth.UsmUserData() renamed into securityEngineId as it's semantically correct
- Oneliner UsmUserData() and CommunityData() classes now support clone()'ing to facilitate authentication data management in user applications.
- Oneliner transport target classes now support the getTransportInfo() method that returns network addresses used on protocol level.
- Oneliner CommandGenerator.getNext() & .getBulk() methods now support the maxCalls kwarg to limit the maximum number of iterations to perform.
- The config.addSocketTransport() helper renamed into config.addTransport() and improved by automatically instantiating compatible TransportDispatcher making it dispatcher-agnostic. As an additional bonus, application may not call registerTransportDispatcher() as it would be called by addTransport().
- The SnmpV3MessageProcessingModel.getPeerEngineInfo() method is implemented to communicate discovered peer SNMP engine information to SNMP apps what can be used for fine usmUserTable configuration.
- AsynNotificationOriginator.cfgCmdGen() does not take into account securityModel & securityLevel when reducing LCD access via addTrapUser(). This improves LCD consistency on sparse add/del operations but also does not let you to configure different securityModels per securityname at VACM though the cfgCmdGen() wrapper.
- MIB builder traceback formatting and reporting improved.
- SNMP Engine object now has a snmpEngineID attribute exposed.
- Fix to inet\_ntop()/inet\_pton() support on Windows at TRANSPORT-ADDRESS-MIB.
- Fix to usmUserSecurityName table column implementation -- automatic value generation from index value removed.
- Fix and significant logic rework of snmpCommunityTable to make it working in both Generator and Responder modes and better follow RFC2576 requirements on sequential entries lookup and selection. As a side effect, untagged snmpCommunityTable entries will \*not\* match tagged snmpTargetAddrTable entries and vice versa.
- Fix to Twisted-based NotificationOriginator to make it serving INFORMs again.
- Fix to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for \*all\* var-bindings. Although this is not mentioned in RFC, it looks as a more consistent approach.
- Fix of rounding error to base I/O dispatcher's next timer call calculation.
- Explicit twisted dispatcher's timer resolution (of 1 sec) removed to make use of global default of 0.5 sec.
- Fix to twisted/udp non-default local endpoint binding features. Common socket ('host', port) notation is now supported.
- Fix to Twisted-based transport to make it closing UDP port / UNIX pipe on shutdown.



- Fix to Twisted-based dispatcher not to close transport on unregistration at dispatcher as transports can potentially be reused elsewhere.
- Fix to asyncore-based transport to work only with AsyncsockDispatcher's socket map and not to touch default asyncore's one. The latter have caused dispatcher/transport restarting issues.
- The delV3User() function improved to drop all rows from USM table that were cloned from the target one.
- Fix to exceptions handling at MsgAndPduDispatcher.sendPdu() to avoid sendPduHandle miss (followed by system crash) on cache expiration run.
- Break cyclic references at CommandResponder and NotificationReceiver apps through close() method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to SnmpAdminString, SnmpTagList, SnmpTagValue types to make them supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a bogus stateReference in some cases what causes SNMP engine crashes.
- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on unconfirmed notifications reception (to let NotificationReceiver Apps browsing request details).
- (transport information at the moment) at SNMP engine.
- Asyncsock sockets now configured with SO\_REUSEADDR option to fix possible Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30

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- SNMPv3 high-level and native API examples reworked and extended to cover many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up at local Management Instrumentation and attached to TRAP/INFORM message by Notification Originator is now fully implemented.
- The missing functionality of passing Response PDU contents of INFORM request is now implemented at Notification Originator app. The return value of NotificationOriginator.sendNotification is now a composite object that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params to Notification Originator is now implemented. It may make sense for INFORMs.
- The missing functionality of passing contextName to oneliner version of NotificationOriginator.sendNotification is now implemented.



- Oneliner example apps now include cases where non-default SNMP ContextEngineId/ContextName/SecurityEngineId is used.
- The contextName parameter of SnmpContext.getMibInstrum made optional.
- AbstractMibInstrumController class added as a base class for all possible kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuilder() added.
- I/O sockets buffer sizes made configurable, minimum default is now forced to be no less than 2\*17 (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.
- VACM modules converted from a function into an object to let it keep state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at NotificationOriginator.sendNotification()
- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsynNotificationOriginator.sendNotification() to make
  - a) the notificationType param mandatory b) the varBinds param really optional
- Fixes to ContextEngineId/ContextName support at the oneliner API: now both items should be passed to request PDU through Cmd() request initiation method, the items of authData object should be used only for LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is not mandatory anymore with the oneliner API. Also additionalVarBinds defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source modules appeared to be unnecessary and even destructive to modules data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID values from SNMP engine's instrumentation rather than from SNMP context.
- Fix a couple of bugs at MibTable\* logic involved for table instances creation.
- Fix to Management Instrumentation code to handle cases of non-initialized or not-compliant-to-constraints Managed Objects Instances.



- Fix to Management Instrumentation code to make table row removal through SNMP working again. Wrong method (instumClone) was probed at terminal MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06

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- SECURITY FIX: USM subsystem did not verify securityLevel of a request to an authoritative SNMP engine against auth/priv protocols configured for the user in question. That allowed unauthenticated/unciphered access to pysnmp-based Agent even if USM user is configured to provide one.
  - Oneliner [Asyn]CommandGenerator now supports optional keyword args lookupNames, lookupValues that enable response OID / value looked up at MIB and reported as a MibVariable container object carrying relevant MIB info.
  - Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be passed within a MibVariable container object which would do a deferred MIB lookup for name resolution. This is a new and preferred API which obsoletes the tuple-based one (it is still supported though).
  - Oneliner CommandGenerator's class attributes lexicographicMode, maxRows and ignoreNonIncreasingOid moved to optional keyword args of nextGen() and bulkGen() methods.
  - IPv6/UDP and Local Domain Socket transport interfaces added to the oneliner API.
  - Mib Instrumentation subsystem re-worked to replace excessive MibNode's smiCreate()/smiWrite()/smiDestroy() methods with MibScalarInstance's getValue()/setValue()
  - MibTree.readTest[Get]Next() reworked to be called uniformly so user could tap on these methods at any level of the MIB tree.
  - MibTableColumn.getNextNodeWithValue() unpublished API method obsoleted and removed for clarity.
  - Hex dumps of binary parts of the protocol added to ease system operations analysis.
  - SnmpEngineId autogeneration does not call DNS resolver but uses local hostname not to depend upon local IP availability and performance.
  - Example apps reworked, additional SNMPv3 auth/priv protocols and transports added.
  - Package version is now available as \_\_init\_\_.\_\_version\_\_ and it is in-sync with distutils.
  - Package meta-information updated.
  - The \_\_init\_\_.py's made non-empty (rumors are that they may be optimized out by package managers).
  - Multiple fixes to UNIX domain socket transport to make it fully operational again.
  - Use sysUpTime value whenever it is included in Notification PDU, otherwise resort to SNMP engine uptime



reading.

- SNMPv2c Message is now defined in rfc1901.py what matches standard definition.
- Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py) moved to module scope to become accessible by wrapper routines (v1.py/v2c.py). This is used for setting strictly typed default values to corresponding SNMP data structures.
- The obsolete and unpublished MibInstrumController.readVarsFast() method removed for API clarity.
- MibBuilder now distinguishes case of MIB modules filenames even if underlying OS does not.
- LCD configuration caching is implemented at pysnmp.entity.rfc3413.config that improves performance of repetitive calls by 10% and might hugely improve NotificationOriginator's performance when working on a large number of targets.
- A caching maps implemented at rfc2576 subsystem to speed-up communityName to/from securityName resolution. The also makes transport tags processing better compliant to the standard.
- Community and Transport tags processing changed at the oneliner interface to make the whole mechanism more compliant with the standard. Most importantly, it is now possible to tag authentication and transport information separately.
- The NoSuchInstanceError exception class is no more inherits from NoSuchObjectError to make class hierarchy closer to SNMP specification which states that these errors are separate and independent.
- The Next & BulkCommandGenerator's split onto single-run and iterative implementations. The former just process a single interaction and complete while the latter run as many interactions as user callback function indicates to.
- The pysnmp.entity.rfc3413.mibvar module is now obsolete by pysnmp.entity.rfc3413.oneliner.mibvar featuring basically the same features but within a stateful, dedicated object.
- Auth & target configuration container classes moved to their separate modules at oneliner API.
- The notificationType parameter of AsyncNotificationOriginator.sendNotification made defaulted to reflect its optional nature.
- Oneliner UsmUserData, UdpTransportTarget, Udp6TransportTarget instances are not hashable anymore as they are intended to act more like a data structure than object.
- Built-in debugger now supports negating debugging categories.
- An async/getgen.py example script added.
- Fix to MIB data reading routine to make it working with possible Windows end-of-line's.
- Fix to CommandGenerator's SNMPv3 engine autodiscovery algorithm when retryCount is administratively set to 0.
- Fix to Notification Originator to make it communicating a single sendPduHandle to an application even when multiple INFORMs are triggered



and processed by a single call by way of transport tagging feature.

- Fix to `rfc2576:processIncomingMessage()` to take `SecurityModel` into account when lookup up `SecurityName` by `CommunityName`. This allows mixed SNMPv1/v2c communication with the same target.
- Fix to internal `MessageProcessing` and `SecurityModel` timers so they become dependant on system timer resolution.
- Fix to `v1.PDUAPI.setDefaults()` method that used to set wrongly typed time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT OIDs calculation.
- Fix to `MibTree` class to properly report `noSuchObject` & `noSuchInstance` SNMP special values.
- Fix to `libsmi2pysnmp` tool to make it working again in Python < 2.7
- Fix to exception handling at `decodeMessageVersion()` caller to prevent ASN.1 parsing errors crashing the whole app.
- Fix to `GenericTrap` type processing at `rfc2576:v1Tov2c()` which used to crash the whole SNMP engine.
- Fix to [possibly uninizilaized] `pyasn1` objects printouts at `MibInstrumController.__indexMib()`
- Fix to `maxSizeResponseScopedPDU` calculation at `rfc3414/service.py`.
- Dedicated 'withmib' example set is obsolete and removed.
- Another SNMP proxy example app added (`1to3.py`).
- 
- Fix to MIB modules loading code to make it using `__import__()` properly. This also makes `pysnmp` working again with Python 3.3rc0.
- Typo fix to `snmpInASNParseErrs` MIB instance object.
- Typo fix to `errind.EngineIdMismatch` class and its instance.

Revision 4.2.2, released 2012-04-21

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- Oneliner `CommandGenerator` can now limit the number of SNMP table rows returned by `nextCmd()/bulkCmd()` methods.
- Oneliner `CommunityData` configuration object can now be initialized with community name only, security name will be chosen automatically.
- Oneliner LCD configuration routines reworked towards clarity. The side-effect of this change is that repetitive oneliner call with the same securityName and different configuration options will only honor the first settings. Previous implementation would override older settings.
- Transport dispatcher now provides its own time expressed in fractions of second. SNMP engine uses this notion of time for handling requests timeout to make packet flow time bound to async I/O core operations rather than to real time.
- The `libsmi2pysnmp` tool improved to handle incomplete SMI v1->v2 conversion performed by `smidump`. The remaining core SMIv1 modules



excluded from the core MIB set.

- The pyasn1 constraint and enumeration objects put into ASN1-\* MIB modules what appears to be more in-line with SMI. Existing MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIV1 MIB modules (including RFC1155 and RFC1213) were moved to pysnmp-mibs as pysnmp is SMIV2-based.
- The MibBuilder.importSymbols() now takes optional kwargs and push them into MIB modules globals(). This is to facilitate passing user information, such as DB connection handler, to MIB module namespace so it could be used by ManagedObjects implementations.
- When running on Python3, SMI will re-raise exceptions with the original traceback for easier diagnostics.
- Out of PYTHONPATH MIB paths now supported.
- 
- Added pyasn1 decoder failures diagnostics in debug mode.
- Fix to non-MT-safe class attributes at SNMPv3 MP & SEC modules.
- Fix to ContextName handling in bytes form whilst running Python3. Data mismatch error would return otherwise.
- Fix to SNMPv3 MP peer engine ID discovery not to learn and use user-specified ContextEngineId.
- Fix to socket.error processing at Py3 on Windows.
- Fix to oneliner GETNEXT/GETBULK implementation to properly support ignoreNonIncreasingOIDs option.
- Fix to setEndOfMibError()/setNoSuchInstanceError() at v1 PDU not to loose errorIndex.
- Fix to api.v2c.getVarBindTable() to ignore possible non-rectangular GETBULK response tables.
- Fix to oneliner getnext/getbulk response table rectangulation procedure to gracefully handle an empty column condition.
- Fix to legacy MibBuilder.getMibPath() to prevent it from missing .egg-based components in path.
- Fix to oneliner configuration routine that used to implicitly tag SNMPv1/v2c auth and transport LCD rows what resulted in huge delays when processing incoming messages with large number of peers configured.
- Fix to UDP6 transport handling at rfc2576 security module.
- Fix to SnmpEngineID value autogeneration (used to fail on Mac).
- SNMPv2-SMI.ObjectType.\_\_repr\_\_() fixed to do a repr() on its components.
- All SNMPv2-SMI.MibNode-based objects, once exported to a mibBuilder, will carry an embedded label symbol.
- Explicit repr() calls replaced with '%r'
- Fix to error processing at GETNEXT & GETBULK apps response handlers.
- Fix to libsmi2pysnmp to make it supporting long (256+) list of function params.
- Fix to libsmi2pysnmp to support inheritance of MIB types.

Revision 4.2.1, released 2011-11-07



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- Support string OIDs at one-liner API.
  - Code quality of libsmi2pysnmp tool improved, MIBs re-built.
  - SNMP-PROXY-MIB & SNMP-USER-BASED-SM-3DES-MIB added
  - v1arch bulkgen.py example added
  - Major overhaul for Python 2.4 -- 3.2 compatibility:

- + get rid of old-style types
- + drop string module usage
- + switch to rich comparison
- + drop explicit long integer type use
- + map()/filter() replaced with list comprehension
- + apply() replaced with var-args
- + dictionary operations made 2K/3K compatible
- + division operator made 2K/3K compatible
- + sorting function now operates on key
- + iterators returned by some funcs in py3k converted to lists
- + exception syntax made 2K/3K compatible
- + tuple function arguments resolved to scalars to become py3k compatible
- + BER octetstream is now of type bytes (Py3k) or still string (Py2k)

Revision 4.1.16d, released 2011-09-22

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- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14

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- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13

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- Oneliner CommandGenerator can now optionally ignore non-increasing OIDs.
- Default CommandResponder now skips non-compliant (Counter64) values when responding to a v1 Manager.
- Fix to state information handling at CommandResponder app.
- Fix to Twisted reactor shutdown condition.
- Fix to distutils dependencies syntax.

Revision 4.1.16a, released 2011-03-17

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- Extended Security Options (3DESEDE, AES192, AES256) privacy protocols implemented.



- The error-indication codes moved from literals to objects for reliability and clarity
- Fix to v1.TrapPDUAPI.getVarBinds() to address PDU component at the right position.
- Fix to rfc1902.Bits initialization from named bits sequence.
- Fix to MIB builder by-extension module filtering code to cope with .pyw files.
- Internal caches structure improved.
- Sync versions of oneliner apps split off async implementation for clarity.
- Randomize initial in various numeric sequences.
- MsgAndPduDsp expectResponse parameters passing reworked.
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- GetNext/GetBulk response processing logic moved to getNextVarBinds()
- Changes towards performance improvement:
- + all dict.has\_key() & dict.get() invocations replaced with modern syntax (this breaks compatibility with Python 2.1 and older).
- + introduce the MibInstrumControlle.readVarsFast() method (which skips the "testing" phase of MIB value readin) for dealing with internal configuration (LCD).
- + default debug.logger is now just a zero value instead of an object what saves big on frequent calls
- + SNMPv2-SMI columnar indices <-> index values conversion code optimized.
- + pre-compute and re-use some of ASN.1 structures.
- + avoid setting PDU defaults to save on unnecessary initialization.
- + skip ASN.1 types verification where possible.
- + at oneliner Command Generator, avoid looking up pure OID arguments at MIB as it's pointless but takes time.
- + cache MIB columnar objects instance ID <-> symbolic index representation mapping

Revision 4.1.15a,  
released 2010-12-13

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- SNMP Proxy example added.
  - End-of-MIB condition detection reworked what caused backward incompatibility at v1arch GETNEXT API. Previous pysnmp versions used value = None in var-binds as returned by getVarBindTable() API method. This version uses rfc1905 exception values (v2c/v3) or pyasn1 Null (v1).
  - Built-in GETNEXT/GETBULK apps now do not require user to track end-of-mib conditions anymore -- this is now done automatically.
  - CommandResponder API now supports async mode of operation.
  - SNMP exception values now exported from rfc1905 module, and made pretty printable.
  - Lexicographic walking mode is now supported at oneliner CommandGenerator.
  - ContextEngineId&ContextName parameters passing implemented at



v3arch oneliner API.

- Multiple instances of the same transport domain now supported.
- Initial snmpEngineId value generation improved not to accidentally collide within an administrative domain.
- MibTableColumn instances now build value-to-column-instance map to speedup by-value search.
- SNMPv2-CONF::AgentCapabilities macro implemented.
- The libsmi2pysnmp tool handles some more MACROs.
- Void access control module implemented to let apps disabling [default] VACM.
- Allow standard SNMP apps to choose access control method to use.
- Twisted-based CommandResponder example added.
- Fix/rework of Twisted GETNEXT/BULK CommandGenerator callback API to make it simpler and uniform with other CommandGenerators
- Fix to SNMPv3 security module to store peer SNMP engine timeline only if taken from an authenticated message. Prior to this fix SNMP engine was not been protected from spoofing.
- Fix to \$SMIPATH initialization at build-pysnmp-mib.
- Fix to maxSizeResponseScopedPDU calculation.
- Fix to Next/Bulk CommandGenerators to catch a non-increasing OID error condition (what prevents looping).
- Fix to Opaque value tagging at rfc1155.Opaque type.
- Fix to handle (fail gracefully) zero-length user password.
- Fix to SNMP error propagation at Twisted driver (SF tracker ID #3054505).
- Fix to Agent-role snmpEngineId discovery procedure that allows authenticated ReportPDU generation.
- Fix to SNMPv1 PDU handling at CommandResponder & NotificationReceiver apps.
- Fix to CommandResponder app to skip Counter64 SMI values when responding to SNMPv1 Manager.
- Fix to protocol translator code (rfc2576) to handle Counter64 type in v2c-to-v1 PDU translation.
- Fix to non-response var-binds translation in rfc2576.v2ToV1().
- Fix to wrong exceptions used in pysnmp/entity modules.
- Fix to noauth/nopriv security module so that it would not crash SNMP engine if called accidentally.
- Fix to CommandResponder not to return out-of-range errorIndex along with genErr
- Fix to GETBULK CommandResponder to do a by-column MIB walk, not by-raw.
- Fix to getVarBindTable() API function logic.
- Fix to example Manager scripts to use errorIndex when available.
- Fix to dummy encryptData()/decryptData() API
- Fix to oneliner GETBULK table collection code to make it stripping uneven rows off table tail.

Revision 4.1.14a, released 2010-07-15



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- Fix to maxSizeResponseScopedPDU calculation at USM security module: now more precise and robust against screwed values on input.
  - Fix to MIB loading logic that used to load same-name modules at distinct search paths on each loadModules() call.
  - Fix to AsynsockDispatcher.runDispatcher() to make use of optional non-default select() timeout value.
  - AbstractTransportDispatcher now allows user application registering multiple timer callbacks each with dedicated call period.
  - Asynsock mainloop default idle period reduced to 0.5 sec for better timer resolution.
  - Fix to SNMPv1->SNMPv2c error status handling at proxy module. This defect may have caused an infinite loop on a multiple var-bind SNMPv1 GetNext operation.
  - Fix to contextName processing at config.addV1System -- typo rendered passed contextName not committed into LCD.
  - Fix to unknown ContextName exception handling at CommandResponder App.
  - config.addVacmUser() now accepts an optional contextName what makes it usable for configuring multiple contextName-bound bases of Managed Objects to SnmpEngine.
  - MP pending states cache management re-worked so that SNMP engine will now handle an unlimited number of pending request/responses.
  - Fix to SNMP discovery procedure: include ContentName in SNMP discovery messaging.
  - Many fixes to AES crypto code that makes it actually working.
  - Fix to SNMPv2-SMI createUndo operations.
  - Fix to INFORM sending error handling at oneliner.
  - Fix to mismatched response PDU handling at CommandGenerator application.
  - Debug category 'app' (for Application) added to facilitate Standard SNMP Applications debugging.
  - The retryCount semantic of CommandGenerator application changed to include sole retries and do not include initial request. Thus, retryCount=1 will now send up to two packets, not just one as it used to be.
  - Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09

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- UDP over IPv6 transport implemented.
- Fix to MIB tree walking code that used to fail on table columns where indices have identical leading parts.
- SNMPv1/v2c snmpCommunityTransportTag-based incoming message filtering implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03



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- API versioning retired (pysnmp.v4 -> pysnmp).
  - MIB loading mechanics re-designed to allow ZIP import.
  - MIB loader supports code objects (py[co])
  - Installer now uses setuptools for package management whenever available.
  - The libsmi2pysnmp tool improved to build constraints of more than 256 items (Python has a limit on the number of function params).
  - Missing SNMPTrap PDU API implemented at proto.api.v2c, RFC2576 proxy code reworked.
  - Fix to sysUpTime OID at SNMPv2 TRAP PDU.

Revision 4.1.11a, released 2009-08-21

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- Twisted integration implemented.
- Attempt to use hashlib whenever available.
- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP\_MODULE\_ID, Groups and Notifications in libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.
- Fix to pending inform request data caching in mpm/rfc2576.py -- previous code led to cache data corruption on multiple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured entries and raise an exception.
- Allow multiple callback timer functions in all transport dispatchers.
- Fix to libsmi2pysnmp code to preserve more underscored object names and to guess the right type between indistinguishable ObjectGroup & NotificationGroup
- Fix to MibScalarInstance value setting logic - previous code failed when modifying the same OID multiple times within a single SET operation.
- Minor usability improvements to tools/build-pysnmp-mib.
- Made MIB objects unexport feature operational.

Revision 4.1.10a, released 2008-05-25

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- Internal MIB indexing method \_\_indexMib() unmangled to facilitate



- setting up mutex there for sharing MIB stuff between threads.
- Fixed broken IpAddress value handling in SET operation.
- Broken MibBuilder.unloadModules() method now works.
- Use getLabel() SMI object method when building MIB tree (in builder.py)
- in addition to direct attribute access for clearer object protocol.
- The MIB building tools updated to match significantly improved smidump tool (libsmi version > 0.4.5).
- Made libsmi2pysnmp tool optionally building MIB text fields into pysnmp MIB code (enabled by default) and MibBuilder conditionally loading them up (disabled by default).
- SnmpEngine and MsgAndPduDispatcher constructors now optionally take msgAndPduDspr and mibInstrumController class instances respectively to facilitate these objects sharing within a process.
- Unique integers, for various parts of the system, are now generated by a nextid.py module. This fixes possible issues with duplicate request IDs and handlers.
- Built-in MIBs re-generated to include text fields.

Revision 4.1.9a, released 2007-11-28

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- UNSTABLE ALPHA RELEASE.
- At onliner CommandGenerator, close transport on destruction to prevent socket leak. Implicit async transports registration at default asyncore's socket map has been disabled to avoid side effects.
- Fix to rfc2576.v1ToV2c() PDU converter to perform noSuchName error code translation.
- Fixes to Notification PDU conversion code at rfc2576 in part of snmpTrapOID handling.
- Fix to nonRepeaters object use as sequence slicer (must be int) at cmdrsp.CommandResponderApplication
- Make AsynsockDispatcher using its own socket map by default for threading safety. This will break asyncore apps that rely on pysnmp sharing the same socket map with them. A solution would be to either set asyncore map to pysnmp (AsynsockDispatcher.setSocketMap()) or pass pysnmp map (AsynsockDispatcher.getSocketMap()) to asyncore.
- Fix to response timeout roundup bug at CommandGenerator and NotificationOriginator code.
- Oneline configuration classes made hashable to prevent memory leaks when committing them into CommandGenerator/NotificationOriginator internal repository.
- Security information is now released properly in all MP modules. This might fix a significant memory leak.
- Typo fix to rfc3411 confirmed class PDU members.



- UNSTABLE ALPHA RELEASE.
- SMI/dispatcher timeout conversion multiplier is actually 100 (1/100 sec) rather than 1/1000. This fix affects timeouts specified through SMI.
- `__repr__()` implemented for `UdpTransportTarget`, `CommunityData`, `UsmUserData` in oneliner module.
- Automatically initialize table index values on table management operations (SF bug ID #1671989).
- Fix to carrier code: ignore BADFD socket error as it may happen upon FD closure on n-1 select() event.
- Fix to `MibBuilder.setMibPath()` to preserve previously loaded modules intact. Otherwise `loadModules()` called after `setMibPath()` might fail with 'MIB file not found in search path' exception.
- Fix to oneliner classes that now invoke unconfiguration methods on destruction. This might have caused memory leaks.
- Automatically initialize `SNMP-USER-BASED-SM-MIB::UsmUserSecurityName` columnar object instance on creation, as stated in DESCRIPTION (SF tracker ID #1620392).
- Fix to USM timeframe arithmetics (SF bug #1649032).
- VACM shortcuts merged into universal `add/delVacmUser()` to let notifications and requests to co-exist for the same user.
- At oneliners, build LCD tables keys from a hashed mix of input parameters to make sure these automatic entries won't interfere or exceed constraints on keys values.
- Made use of `notificationType` parameter of the `sendNotification` method in `NotificationOriginator` applications. This parameter used to be ignored in the past. Note, that previously used (and ignored) syntax has been changed in an incompatible way.
- Allow plain Python values in `setCmd()` and `sendNotification()` methods in `CommandGenerator` and `NotificationOriginator` applications respectively.
- Multi-target oneliner API-based example script added.
- Ignore more socket errors in datagram-type async socket code.
- AES cipher now supported (rfc3826).
- Fix to messed up tagIDs of `noSuchInstance` and `noSuchObject` types.
- SET Command Responder fixed to obscure access to non-existing variables by returning `notWritable` error (SF bug #1764839).
- `AsynsockDispatcher.setSocketMap()` method added to facilitate pysnmp transport integration into third-party asyncore-based applications.
- Fix to `errorIndex` generation at `CommandResponder` application, the value should be a one-based.



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- UNSTABLE ALPHA RELEASE.
  - Low-level debugging facility implemented.
  - Support `UdpTransportTarget` timeout and retries parameters in oneliner API.
  - Fix to `snmpTrapOID` construction at `...proxy.rfc2576.v1ToV2()` function.
  - Fix to `MibViewController.getNodeName()` to take MIB module name into account (SF bug #1505847).
  - Do explicit check for `Counter32`, `Unsigned32`, `TimeTicks`, `Counter64` value types
- in `MibTableRow` index conversion and in `TextualConvention.prettyPrint()` methods (SF bug #1506341). Handle Bits in indices as RFC2578 suggests.
- Apply read-create column status to `libsmi2pysnmp`-generated code whenever MIB text specifies that (SF bug #1508955).
  - Honor and apply `DISPLAY-HINT` specification when building `TextualConvention` class at `libsmi2pysnmp`.
  - Managed Objects Instances files (`smi/mibs/instances/`) are now double-underscore prefixed to make them imported explicitly by these prefixed names. They used to be imported as a side-effect of Managed Objects files import what is way too hackerish.
  - The `libsmi2pysnmp` now supports future `libsmi` bugfix that would generate "ranges" subtree along with the legacy and ambiguous "range" one.
  - SMI support for fixed-length string indices implemented (SF bug #1584799, #1653908).
  - Managed Object Instances may now have `smiRead`, `smiWrite`, `smiCreate` methods to support specific value mangling. These methods, if present, would be invoked from SNMP [Agent] core instead of conventional `clone()` method. The reason is to separate trivial value duplication from specific Instance value mangling that may have Agent-specific side effects (such as `RowStatus`).
  - MIB table row destruction now works (SF bug #1555010).
  - LCD unconfiguration functions for oneliners implemented (SF bug #1635270).
  - `unloadModules()` and `unexportSymbols()` implemented at `MibBuilder`
  - Notification type PDU proxy code fixed to produce symmetrical conversion.
  - Various SNMP engine-internal caches expiration implemented.
  - SMI-level access control now takes effect only if AC object is passed to MIB instrumentation API.
  - LCD management code now uses generic MIB instrumentation features.
  - Fix to oneliner manager code to have individual `UdpSocketTransport` instance per each `SnmpEngine`. Multithreaded apps might fail otherwise. (SF bug ID #1586420).
  - Exclude the `PYSNMP_MODULE_ID` symbol from MIB view index, as it may get resolved into OID label instead of actual MIB object name.
  - Memory leak fixed in `indices.OidOrderedDict` implementation.



- Fix to VACM shortcuts to let notifications and requests to co-exist for the same user otherwise.
- Fix to ...oneline.cmdgen.UsmUserData to support non-default ciphers.
- USM now uses local notion of snmpEngineBoots/Time when authoritative and cached estimate otherwise. Also, a security fix applied to USM time-window verification (SF bug #1649032).
- Fix to notification objects resolution code at NotificationOriginator.sendNotification()
- Do not raise securityLevel for USM error reports that lacks user information, as these reports could never be ciphered (SF bug #1624720).
- Non-default BULK PDU params now actually applied.
- SnmpEngineID default value generation algorithmic function changed to allow multiple SNMP engines running on the same host.
- Documentation updated.
- A handful of minor fixes applied (SourceForge tracker IDs #1537592, #1537600, #1537659, #1548208, #1560939, #1563715, #1575697, #1599220, #1615077, #1615365, #1616579).

Revision 4.1.6a, released 2006-05-25

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- UNSTABLE ALPHA RELEASE.
- pysnmpUsmSecretAuthKey and pysnmpUsmSecretPrivKey length increased up to 256 octets. There seems no limit on this in RFC, though.
- A workaround for probably broken Agents: SNMPv3 Manager code defaults ContextEngineId to SecurityEngineId whenever ContextEngineId is not reported by authoritative SNMP engine on discovery.
- Use empty PDU in engine-discovery report at mpmmod/rfc3412.py.
- MibBuilder.loadModules() now fails on missing MIB files.
- MibBuilder.exportSymbols() now accepts unnamed objects (likely Managed Objects Instances)
- SNMPv2-SMI.MibScalarInstance objects now support create\*/destroy\* Management Instrumentation methods to pass Columnar Object creation and removal events. MibTableColumn class invoke these methods accordingly.
- Fix to AsynNotificationOriginator.asyncSendNotification() callback formal parameters
- Initial VACM configuration implemented according to rfc3415 Appendix 1
- tools/buildmibs.sh split-up and re-implemented as tools/build-pysnmp-mib and pysnmp-mibs/tools/rebuild-pysnmp-mibs for better usability. These and libsmi2pysnmp scripts made installable.
- Types/Notifications/Groups exportSymbols() call chunking implemented in tools/libsmi2pysnmp
- Initial values specified to pyasn1 types to comply with latest pyasn1 API.
- Documentation improved
- Minor fixes towards Python 1.5 compatibility



Revision 4.1.5a, released 2005-11-04

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- UNSTABLE ALPHA RELEASE.
- Multi-lingual SNMP Trap/Inform Applications completed; examples added
- SMI model re-designed to make a clear separation between Managed Objects and their specification (AKA Agent and Manager side)
- SNMP SET Application support completed
- Minor, though backward incompatible, changes to one-liner API
- Many bugfixes

Revision 4.1.4a,  
released 2005-08-16

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- UNSTABLE ALPHA RELEASE.
- SHA-based authentication fixed and privacy implemented
- ...oneline.cmdgen.UsmUserData constructor now takes authProtocol and privProtocol parameters in a backward incompatible manner.

Revision 4.1.3a, released 2005-07-28

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- UNSTABLE ALPHA RELEASE.
- rfc3413 applications API changes (related to callback function behaviour).
- TransportDispatcher now provides "jobs" interface to clients for better control of dispatcher's execution.
- Many minor fixes.

Revision 4.1.2a, released 2005-07-12

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- UNSTABLE ALPHA RELEASE.
- Top-level application classes renamed into longer, self describing names for clarity.
- CommandResponder & NotificationOriginator applications now uses stand-alone SnmpContext for application registration.
- Many minor fixes (inspired by testing on WinXP)

Revision 4.1.1a, released 2005-06-29

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- UNSTABLE ALPHA RELEASE.
- SNMPv3 code first published
- SNMP engine and applications implemented on library level



- Major re-design towards SNMPv3-style API.

Revision 4.0.2a, released 2005-03-01

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- Adopted to slightly changed asyncore API (as shipped with python 2,4)

Revision 4.0.1a, released 2004-11-18

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- Minor bug/typo fixes, mostly in example/ scripts.

Revision 4.0.0a, released 2004-11-15

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- UNSTABLE EARLY ALPHA RELEASE.
- Major re-design and re-implementation.
- Rudimental API versioning implemented to let incompatible package branches to co-exist within the same Python installation.
- SMI framework designed and implemented. This framework provides 1) various access to MIB data 2) a way to implement custom MIB instrumentation objects. There's also a tool for building SMI classes from libsmi(3) output (smidump -f python).
- ASN.1 subtyping machinery implemented. Now dynamic ASN.1 instances subtyping and quering becomes available. Previously, this has been done through Python classes inheritance what proved to be a wrong concept.
- ASN.1 codecs framework re-designed and re-implemented aimed at a more consistent design and better performance. Highlights include abstract codec interface and serialized data caching (at encoder).
- Asn1Item constraints machinery re-implemented based on Mike C. Fletcher's design and code. Now various constrains are implemented as stand-alone objects serving interested Asn1Object derivatives through some abstract protocol (that's probably the Decorator design pattern).
- ASN.1 tagging facility re-implemented along the client-server design pattern. Besides this seems to be a more appropriate design, it allows an easier way for dynamic subtyping.

Found in path(s):

\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/CHANGES.txt  
No license file was found, but licenses were detected in source scan.

# License: <http://snmplabs.com/pysnmp/license.html>

Found in path(s):

\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/localkey.py  
\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-



4.4.12/pysnmp/proto/secmod/rfc3414/service.py  
 \* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1.py  
 \* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/context.py  
 \* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1-ENUMERATION.py  
 \* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/twisted/dgram/unix.py  
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 \* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncio/dgram/udp6.py  
 \* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1-REFINEMENT.py  
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 \* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/eso/priv/des3.py  
 \* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/auth/hmacmd5.py  
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 \*



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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/error.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncore/dgram/base.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/oneliner/cmdgen.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
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4.4.12/pysnmp/carrier/asyncore/dgram/unix.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
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*

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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/config.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/lcd.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/asyncio/__init__.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/indices.py
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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/exval.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-
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4.4.12/pysnmp/proto/mpmod/base.py
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*

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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncsock/dgram/udp6.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncsock/dgram/udp.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncore/dgram/udp6.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc7860/auth/hmacsha2.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-
USER-BASED-SM-MIB.py
*
/opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc3414/priv/nopriv.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-
MPD-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncore/dispatch.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/rfc1902.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/errind.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncsock/dgram/unix.py
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* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/oneliner/ntforg.py
*

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```

/opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/api/verdec.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc3414/priv/des.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/cmdrsp.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/SNMPv2-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/instances/__SNMP-FRAMEWORK-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1901.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc3414/auth/base.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/eso/priv/aes192.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/mpmod/rfc2576.py
*
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NOTIFICATION-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/base.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/sockfix.py
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4.4.12/pysnmp/smi/mibs/RFC1158-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/twisted/cmdgen.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-
FRAMEWORK-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/context.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/SNMPv2-CONF.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/instances/__SNMP-USER-BASED-SM-MIB.py
*
/opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc3411.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/__init__.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/ntfrcv.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/eso/priv/aesbase.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/config.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-
VIEW-BASED-ACM-MIB.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc3412.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/instances/__SNMP-MPD-MIB.py
*

```



/opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/cache.py  
\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-USM-AES-MIB.py  
\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-COMMUNITY-MIB.py  
\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1905.py  
\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1155.py  
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if mibBuilder.loadTexts: snmpUsmHmacSha2MIB.setDescription("Definitions of Object Identities needed for the use of HMAC-SHA2 Authentication Protocols by SNMP's User-based Security Model. Copyright (c) 2016 IETF Trust and the persons identified as authors of the code. All rights reserved. Redistribution and use in source and binary forms, with or without modification, is permitted pursuant to, and subject to the license terms contained in, the Simplified BSD License set forth in Section 4.c of the IETF Trust's Legal Provisions Relating to IETF Documents (<http://trustee.ietf.org/license-info>).")

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\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncio/base.py  
\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncio/cmdgen.py



```
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncio/dgram/udp.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncio/dispatch.py
*
```

```
/opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncio/dgram/base.py
```

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```
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```

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```
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/twisted/dispatch.py
* /opt/cola/permits/1096633375_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/twisted/base.py
```



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Further development

-----

Although PySNMP is already a mature software and it is being used at many places, the ultimate goal of the project is to implement most of the useful features that SNMP standards can offer. What follows is a list of most prominent missing features that PySNMP developers are planning to put their hands on in the future.

PySNMP library

+++++

#. Built-in MIB parser. PySNMP uses a data model of its own to work with information contained in MIB files. To convert ASN.1-based MIB texts into Python modules, an off-line, third-party tool is employed. As it turns out, this approach has two major drawback: one is that PySNMP users may need to pre-process MIB texts to use them with their PySNMP-based applications. Another is that LibSMI's Python driver seems to miss some information carried by MIBs. Thus the solution would be to write another MIB parser and code generator which would produce PySNMP compliant Python code right from MIB text files all by itself.

**\*\*Done:\*\*** see `PySMI project <<http://snmplabs.com/pysmi/>>` in conjunction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support TCP-over-IPv4, TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently



implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions what would comprise a complete SNMP Agent solution at lesser effort.

#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

Stand-alone PySNMP-based tools

+++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

**\*\*Done:\*\*** see `SNMP Proxy Forwarder <<http://snmplabs.com/snmpfwd/>>`\_.

#. SNMP Trap Receiver. We see this application as a simple yet flexible SNMP TRAP collector. It would listen on network sockets of different types receiving SNMP TRAP/INFORM notifications over any SNMP version and putting all the details into a database and possibly triggering external events.

#. Database backend for SNMP Simulator. We have already built a tool for simulating SNMP Agents based on a snapshot of their Management Instrumentation state. Current implementation uses a plain-text file for keeping and possibly managing the snapshot. Many users of the Simulator software requested a value variation feature to be supported so that simulated Agents would look live, not static. We consider this variation and also dependencies features would be best implemented as a relational database application. So we are planning to put some more efforts into the Simulator project as time permits.

**\*\*Done:\*\*** since `snmpsim-0.2.4 <<http://snmplabs.com/snmpsim/>>`\_



If you need some particular feature - please,  
`open a feature request <<https://github.com/etingof/pysnmp/issues/new>>`\_. Once we  
see a greater demand in particular area, we would re-arrange our  
development resources to meet it sooner.

You could greater speed up the development of particular feature by  
sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well.  
We require contributed code to run  
with Python 2.4 through the latest  
Python version (which is 3.7 at the time of this writing). Contributed  
code will be redistributed under the terms of the same  
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\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-  
4.4.12/docs/source/development.rst

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Metadata-Version: 1.2

Name: pysnmp

Version: 4.4.12

Summary: SNMP library for Python

Home-page: <https://github.com/etingof/pysnmp>

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:

SNMP v1/v2c/v3 engine and Standard Applications suite written in pure-Python.  
Supports Manager/Agent/Proxy roles, Manager/Agent-side MIBs, asynchronous  
operation and multiple network transports.

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

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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  
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Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
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\* /opt/cola/permits/1096633375\_1602169119.81/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/PKG-INFO

## 1.70 python-pyparsing 2.4.7

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## 1.71 python-configobj 5.0.6



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## 1.72 fail2ban 0.8.14



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## 1.73 python-ndg-httpsclient 0.5.1

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## 1.74 python-mox 0.5.3

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## 1.75 python-peewee 2.10.2

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## 1.76 python-ipaddr 2.2.0

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## 1.77 linux-firmware 9c71af9

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# 1.78 pam-ldap 186

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## 1.82 stringencoders 3.10.3

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## 1.84 python-websocket\_client 0.57.0

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## 1.85 pythonurllib 1.25.9

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In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test

coverage

\* Thomas Kluyver <thomas@kluyver.me.uk>



- \* Python 3 support
- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
- \* Design review, bugfixes, test coverage.
- \* studer <[theo.studer@gmail.com](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
- <<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](mailto:jaywink@basshero.org)>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
- \* Audrius Butkevicius <[audrius.butkevicius@elastichosts.com](mailto:audrius.butkevicius@elastichosts.com)>
- \* Fixed a race condition
- \* Stanislav Vitkovskiy <[stas.vitkovsky@gmail.com](mailto:stas.vitkovsky@gmail.com)>
- \* Added HTTPS (CONNECT) proxy support



- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer



- <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
- \* 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
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.



- \* Adam Talsma <<https://github.com/a-tal>>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](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
  
- \* 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](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](mailto:alex.dias@smarkets.com)>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <[moin18@gmail.com](mailto: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](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
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.86 vlan 1.9

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```
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```

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<signature of Ty Coon>, 1 April 1989
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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To

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

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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not, see @url{<http://www.gnu.org/licenses/>}.

@end smallexample

Also add information on how to contact you by electronic and paper mail.

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

@smallexample

@var{program} Copyright (C) @var{year} @var{name of author}

This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.

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@end smallexample

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@c man end

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Version 2.1, February 1999

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Any

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Version 3, 29 June 2007

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and

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The

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Version 3.1, 31 March 2009

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# 1.88 open-vm-tools 11.1.5-16724464

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>>> unicode-5.0

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

We call this license the `Lesser` General Public License because it does *Less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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



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

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

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

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

#### @subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@item

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

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

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means



all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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@item

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses



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

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

@end enumerate

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

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

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

@item

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

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

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

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



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

@item

As an exception to the Sections above, you may also combine or  
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modification of the work for the customer's own use and reverse  
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copyright notice for the Library among them, as well as a reference  
directing the user to the copy of  
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Accompany the work with the complete corresponding  
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changes were used in the work (which must be distributed under  
Sections 1 and 2 above); and, if the work is an executable linked  
with the Library, with the complete machine-readable ``work that  
uses the Library", as object code and/or source code, so that the  
user can modify the Library and then relink to produce a modified  
executable containing the modified Library. (It is understood  
that the user who changes the contents of definitions files in the  
Library will not necessarily be able to recompile the application  
to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A  
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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  
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@item

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@end  
smallexample

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
@end smallexample

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1 and 2 above on a medium customarily used for software interchange; or,

@item

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cost of physically performing source distribution, a complete  
machine-readable copy of the corresponding source code, to be  
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special exception, the source code distributed need not include  
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@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest



possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

```
@smallexample
@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}
```

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

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

```
@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your



school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

@example

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

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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The following parts are under the LGPL, see file intl/COPYING.LIB:

- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,



- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:

- the `_programs_` gettext, ngettext, envsubst,
- the documentation.

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Version 2.1, February 1999

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the object code for the work under the terms of Section 6.

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Version 3, 29 June 2007

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section 10

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```
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## 1.92 appdirs 1.4.4

### 1.92.1 Available under license :

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# 1.93 functools32 3.2.3-2

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### A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.2   | 2.1.1 | 2001      | PSF | yes |
| 2.1.2 | 2.1.1 | 2002      | PSF | yes |
| 2.1.3 |       |           |     |     |
| 2.1.2 | 2002  | PSF       | yes |     |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1.1 | 2010      | PSF | yes |
| 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 |
| 3.2.1 | 3.2   | 2011      |     |     |
| PSF   | yes   |           |     |     |
| 3.2.2 | 3.2.1 | 2011      | PSF | yes |
| 3.2.3 | 3.2.2 | 2012      | PSF | yes |

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## 1.94 suds 0.4

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- \* Based on code from The Apache Group

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# 1.110 log4shib 1.0.9

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## 1.112 ooid 0.999

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-----

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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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\*



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- \* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- \* with significant code contributions by Nitin Ganatra
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the  
Info-ZIP group, with large contributions from (but not limited to):  
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename  
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),  
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine  
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows  
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and  
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The decompression core code for the deflate method (inflate.[ch],  
explode.c) was originally written by Mark Adler who submitted it



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# 1.114 less 563

## 1.114.1 Available under license :

Less License  
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Less

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```
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# 1.115 smartmontools 7.2

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# 1.121 sysv-init 2.90

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Send patches to [sysvinit-devel@nongnu.org](mailto:sysvinit-devel@nongnu.org)

# 1.122 log-rotate 3.18.0

## 1.122.1 Available under license :

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## 1.123 glibc 2.33



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```
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```

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```
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## 1.133 grep 3.6

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Version 3, 29 June 2007

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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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# 1.135 smem 1.5

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## 1.137 libnsl 1.3.0

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Upstream-Name: libnsl

Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>

Source: <https://github.com/thkukuk/libnsl>

Files: debian/\*

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Files: AUTHORS

- configure.ac
- config.h.in
- libnsl.pc.in
- Makefile.am
- NEWS
- README
- src/Makefile.am
- src/do\_ypcall.c
- src/internal.h
- src/libnsl.map
- src/nisplus/nis\_error.c
- src/taddr2host.c
- src/taddr2ipstr.c
- src/taddr2port.c
- src/yp\_first.c
- src/yp\_get\_default\_domain.c



src/yp\_maplist.c  
src/yp\_master.c  
src/yp\_match.c  
src/yp\_next.c  
src/yp\_order.c  
src/ypbinderr\_string.c  
src/yperr\_string.c  
src/ypprot\_err.c

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Files: src/libc-lock.h

src/nisplus/nis\_add.c  
src/nisplus/nis\_addmember.c  
src/nisplus/nis\_call.c  
src/nisplus/nis\_callback.c  
src/nisplus/nis\_checkpoint.c  
src/nisplus/nis\_clone\_dir.c  
src/nisplus/nis\_clone\_obj.c  
src/nisplus/nis\_clone\_res.c  
src/nisplus/nis\_creategroup.c  
src/nisplus/nis\_defaults.c  
src/nisplus/nis\_destroygroup.c  
src/nisplus/nis\_domain\_of.c  
src/nisplus/nis\_domain\_of\_r.c  
src/nisplus/nis\_file.c  
src/nisplus/nis\_findserv.c  
src/nisplus/nis\_free.c  
src/nisplus/nis\_getservlist.c  
src/nisplus/nis\_hash.c  
src/nisplus/nis\_intern.h  
src/nisplus/nis\_ismember.c  
src/nisplus/nis\_local\_names.c  
src/nisplus/nis\_lookup.c  
src/nisplus/nis\_mkdir.c  
src/nisplus/nis\_modify.c  
src/nisplus/nis\_ping.c  
src/nisplus/nis\_print.c  
src/nisplus/nis\_print\_group\_entry.c  
src/nisplus/nis\_remove.c  
src/nisplus/nis\_removemember.c  
src/nisplus/nis\_rmdir.c  
src/nisplus/nis\_server.c  
src/nisplus/nis\_subr.c  
src/nisplus/nis\_table.c  
src/nisplus/nis\_util.c  
src/nisplus/nis\_verifygroup.c  
src/nisplus/nis\_xdr.c



src/nisplus/nis\_xdr.h

src/rpcsvc/nislib.h

src/rpcsvc/ypclnt.h

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Files: src/rpcsvc/nis\_callback.h

src/rpcsvc/nis\_callback.x

src/rpcsvc/nis\_object.x

src/rpcsvc/nis\_tags.h

src/rpcsvc/nis.h

src/rpcsvc/nis.x

src/rpcsvc/yp.h

src/rpcsvc/yp.x

src/rpcsvc/yp\_prot.h

src/rpcsvc/yppasswd.h

src/rpcsvc/yppasswd.x

src/rpcsvc/ypupd.h

src/yp\_xdr.c

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src/Makefile.in

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config.guess

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Files: compile

depcomp

missing



test-driver

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Files: ltmain.sh

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Files: config.rpath

m4/gettext.m4

m4/host-cpu-c-abi.m4

m4/iconv.m4

m4/intlmacosx.m4

m4/lib-ld.m4

m4/lib-link.m4

m4/lib-prefix.m4

m4/libtool.m4

m4/ltoptions.m4

m4/ltsugar.m4

m4/ltversion.m4

m4/lt~obsolete.m4

m4/nls.m4

m4/po.m4

m4/progtest.m4

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Files: ABOUT-NLS

po/Makefile.in.in

po/Makevars

po/POTFILES.in

po/Rules-quot

po/boldquot.sed

po/en@boldquot.header

po/en@quot.header

po/insert-header.sin

po/libnsl.pot

po/quot.sed

po/remove-potcdate.sin

po/stamp-po

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## 1.138 pcre 8.44

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# 1.140 coverage 5.5

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any

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## 1.146 service-identity 18.1.0

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## 1.147 incremental 21.3.0

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## 1.148 click 7.1.2

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# binary only, patch it back to the system, and then use a wrapper

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*)"', f.read()).group(1)
```

```
setup(
```

```
    name="click",
```



```

version=version,
url="https://palletsprojects.com/p/click/",
project_urls={
    "Documentation": "https://click.palletsprojects.com/",
    "Code": "https://github.com/pallets/click",
    "Issue tracker": "https://github.com/pallets/click/issues",
},
license="BSD-3-Clause",
maintainer="Pallets",
maintainer_email="contact@palletsprojects.com",
description="Composable command line interface toolkit",
long_description=readme,
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*,
!=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 3",
],
)

```

Found in path(s):

```
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py
```

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.. \_contrib:

```

=====
click-contrib
=====

```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why `click-contrib` exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click



in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please

note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. \_click-contrib: <https://github.com/click-contrib/>

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\* /opt/cola/permits/1160566381\_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/docs/contrib.rst

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\* /opt/cola/permits/1160566381\_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/tests/test\_formatting.py

## 1.149 requests-toolbelt 0.9.1

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## 1.150 cffi 1.14.5

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## 1.151 websocket-client 0.37.0

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# 1.154 attrs 21.2.0

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# 1.155 strace 5.12

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a

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## A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
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Intellectual Property. Zope Corporation is a sponsoring member  
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All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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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                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
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|       |     |      |     |     |
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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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## 1.158 python-ldap 3.3.1

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## 1.159 typing 3.7.4.1

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

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



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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)



```

#

all:: image

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

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell           2005
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Gadi Oxman, August 1995

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

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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## 1.170 acme 1.12.0

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## 1.173 josepy 1.7.0

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# 1.174 python-certifi 2021.5.30

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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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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.175 tar 1.34

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Version 3, 29 June 2007

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lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
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lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
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lib/krb5/kdb/kdb\_log.h  
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lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
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lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c



lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
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Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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# 1.183 deprecated 1.2.12

## 1.183.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1170748180\_1622679290.22/0/tantale-deprecated-v1-2-12-0-ge84ec77-1-tar-gz/tantale-deprecated-93b3f61/LICENSE.rst

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

# Contributor Covenant Code of Conduct

## Our Pledge

In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, 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.

## Our Standards

Examples of behavior that contributes to creating a positive environment include:

- \* Using welcoming and inclusive language
- \* Being respectful of differing viewpoints and experiences
- \* Gracefully accepting constructive criticism
- \* Focusing on what is best for the community
- \* Showing empathy towards other community members

Examples of unacceptable behavior by participants include:



- \* The use of sexualized language or imagery and unwelcome sexual attention or advances
- \* Trolling, insulting/derogatory comments, and personal or political attacks
- \* Public or private harassment
- \* Publishing others' private information, such as a physical or electronic address, without explicit permission
- \* Other conduct which could reasonably be considered inappropriate in a professional setting

## ## Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers 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, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

## ## Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

## ## Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team at [Tantale Solutions](mailto:tantale.solutions@gmail.com). All complaints will be reviewed and investigated and will result in a response that is deemed necessary and appropriate to the circumstances. The project team is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

Project maintainers who do not follow or enforce the Code of Conduct in good faith may face temporary or permanent repercussions as determined by other members of the project's leadership.

## ## Attribution



This Code of Conduct is adapted from the [Contributor Covenant][homepage], version 1.4, available at <https://www.contributor-covenant.org/version/1/4/code-of-conduct.html>

[homepage]: <https://www.contributor-covenant.org>

Found in path(s):

\* /opt/cola/permits/1170748180\_1622679290.22/0/tantale-deprecated-v1-2-12-0-ge84ec77-1-tar-gz/tantale-deprecated-93b3f61/.github/CODE\_OF\_CONDUCT.md

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

%global srcname Deprecated

%global pkgname deprecated

Name: python-%{pkgname}

Version: 1.2.12

Release: 2%{?dist}

Summary: Python decorator to deprecate old python classes, functions or methods

License: MIT

URL: <https://github.com/tantale/%{pkgname}>

Source0: %{pypi\_source}

BuildArch: noarch

%description

Python @deprecated decorator to deprecate old python classes, functions or methods.

%package -n python3-%{pkgname}

Summary: %{summary}

BuildRequires: python3-devel

BuildRequires: python3-setuptools

%{?python\_provide:%python\_provide python3-%{pkgname}}

%description -n python3-%{pkgname}

Python @deprecated decorator to deprecate old python classes, functions or methods.

%prep

%autosetup -n %{srcname}-%{version}

rm -rf %{pkgname}.egg-info

%build

%py3\_build

%install

%py3\_install

%files -n python3-%{pkgname}



```
%license LICENSE.rst
%doc README.md
% {python3_sitelib}% {pkgname}/
% {python3_sitelib}% {srcname}-%.egg-info/
```

```
%changelog
```

```
*
```

```
Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-2
- Fix python3_sitelib issue
```

```
* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-1
- Initial package
```

Found in path(s):

```
* /opt/cola/permits/1170748180_1622679290.22/0/tantale-deprecated-v1-2-12-0-ge84ec77-1-tar-gz/tantale-
deprecated-93b3f61/python-deprecated.spec
```

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

'License :: OSI Approved :: MIT License',

Found in path(s):

```
* /opt/cola/permits/1170748180_1622679290.22/0/tantale-deprecated-v1-2-12-0-ge84ec77-1-tar-gz/tantale-
deprecated-93b3f61/setup.py
```

# 1.184 expat 2.4.1

## 1.184.1 Available under license :

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## 1.185 pyparsing 2.4.7-1.ph4

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## 1.186 pyyaml 5.4.1-1.ph4

### 1.186.1 Available under license :

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# 1.187 pyasn1 0.4.8-1.ph4

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ASN.1 library for Python

=====

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

Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

What is ASN.1

-----

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

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

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

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example.



Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

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

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

#### ASN.1 applications

-----

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

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

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

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



and security reviewed.

## Documentation

-----

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

/pyasn1/contents

## Use case

-----

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

/example-use-case

## Download & Install

-----

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

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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

/changelog

## 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.

Found in path(s):

\* /opt/cola/permits/1175352056\_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/docs/source/contents.rst  
No license file was found, but licenses were detected in source scan.

# License: <http://snmplabs.com/pyasn1/license.html>

Found in path(s):

\* /opt/cola/permits/1175352056\_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/cer/test\_decoder.py  
\* /opt/cola/permits/1175352056\_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/calling.py  
\* /opt/cola/permits/1175352056\_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/ber/\_\_main\_\_.py  
\* /opt/cola/permits/1175352056\_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py  
\* /opt/cola/permits/1175352056\_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/namedval.py



```

* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_char.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/univ.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_opentype.py
*
/opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/native/test_decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/octets.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/compat/test_octets.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_useful.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/base.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/test_debug.py
*
/opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/cer/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_tag.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/native/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/base.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/der/test_encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/der/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
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/opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/compat/test_integer.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/integer.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/namedtype.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/compat/test_binary.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/debug.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/tag.py
*
/opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/error.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/constraint.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/compat/string.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_namedval.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-
0.4.8/tests/codec/native/test_encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_constraint.py

```



```

*
/opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/setup.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/test_univ.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/codec/der/test_decoder.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/compat/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/tests/type/__main__.py
* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/pyasn1/type/useful.py
No license file was found, but licenses were detected in source scan.

```

.. \_license:

License

=====

.. include:: ../../LICENSE.rst

Found in path(s):

```

* /opt/cola/permits/1175352056_1624454259.22/0/pyasn1-0-4-8-zip/pyasn1-0.4.8/docs/source/license.rst
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```

ASN.1 library for Python

-----

```

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)
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[![GitHub license](https://img.shields.io/badge/license-BSD-
blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

```

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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# 1.188 subprocess32 3.5.4-2.ph4

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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<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     |
| 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     |

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# 1.190 pyasn1-modules 0.2.8-1.ph4

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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',
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            '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/1175352047\_1627367064.54/0/idna-2-10-1-tar-gz/idna-2.10/setup.py

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Metadata-Version: 1.2

Name: idna

Version: 2.10

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)

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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 2.7 and Python 3.4 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.IDNAError``` base class.

More specific exceptions that may be generated as ```idna.IDNABidiError``` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ```idna.InvalidCodepoint``` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ```idna.InvalidCodepointContext``` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

## Building and Diagnostics

-----

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script ```tools/idna-data```.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

\* ```idna-data make-libdata```. Generates ```idnadata.py``` and ```uts46data.py```, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the ```idnadata.py``` and ```uts46data.py``` files.



\* ``idna-data make-table``. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>`\_.

\* ``idna-data U+0061``. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using ``idna-data -h``. Most notably, the ``--version`` argument allows the specification of the version of Unicode to use in computing the table data. For example, ``idna-data --version 9.0.0 make-libdata`` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

## 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

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

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Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy



Classifier: Topic :: Internet :: Name Service (DNS)  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Utilities  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

\* /opt/cola/permits/1175352047\_1627367064.54/0/idna-2-10-1-tar-gz/idna-2.10/idna.egg-info/PKG-INFO  
\* /opt/cola/permits/1175352047\_1627367064.54/0/idna-2-10-1-tar-gz/idna-2.10/PKG-INFO

## 1.192 ndg-httpsclient 0.5.1-4.ph4

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## 1.193 constantly 15.1.0-3.ph4



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## 1.194 pycparser 2.20-1.ph4

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pycparser -- A C parser in Python

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PLY (Python Lex-Yacc)

Version 3.10

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<http://www.dabeaz.com/ply>

This is a list of people who have contributed to pycparser by supplying patches, opening issues, or generally helping out, before the project moved to Github.

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# 1.195 urllib3 1.26.6

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lib/netstd/src/Protocol/TStruct.cs  
lib/netstd/src/Protocol/TType.cs  
lib/netstd/src/Server/TServer.cs  
lib/netstd/src/Server/TSimpleServer.cs  
lib/netstd/src/Server/TThreadPoolServer.cs  
lib/netstd/src/TApplicationException.cs  
lib/netstd/src/Thrift.csproj  
lib/netstd/src/Thrift.sln  
lib/netstd/src/TProcessor.cs  
lib/netstd/src/Transport/TServerSocket.cs  
lib/netstd/src/Transport/TServerTransport.cs  
lib/netstd/src/Transport/TSocket.cs  
lib/netstd/src/Transport/TStreamTransport.cs  
lib/netstd/src/Transport/TTransport.cs  
lib/netstd/src/Transport/TTransportException.cs  
lib/netstd/src/Transport/TTransportFactory.cs  
lib/netstd/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
lib/netstd/ThriftMSBuildTask/ThriftBuild.cs  
lib/netstd/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
lib/rb/lib/thrift.rb  
lib/st/README  
lib/st/thrift.st  
test/OptionalRequiredTest.cpp  
test/OptionalRequiredTest.thrift  
test/ThriftTest.thrift



-----  
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L. Peter Deutsch  
ghost@aladdin.com

```
*/
```

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For the lib/nodejs/lib/thrift/json\_parse.js:

```
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\*/

(By Douglas Crockford <douglas@crockford.com>)

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

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-----  
For lib/py/compat/win32/stdint.h  
  
// ISO C9x compliant stdint.h for Microsoft Visual Studio  
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124  
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////////////////////////////////////
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-----  
Codegen template

in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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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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* NCSA HTTPd Server
* Software Development Group
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Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

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## 1.207 libidn 1.37



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`plugins/experimental/memcache/protocol_binary.h`

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Reusable Gold Testing System

<https://bitbucket.org/dragon512/reusable-gold-testing-system>

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yaml-cpp: A YAML parser and emitter in C++

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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////

[#mpl]

MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

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

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

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

<!DOCTYPE html>

<html>

<head></head>

<body>

<h3>

Copyright Test

</h3>

<p class="copyright">

1963, 1964, 1965 Jane Doe

</p>

<p class="copyright">

2018 Joe Blow, John Coe

</p>

<p class="copyright">

1977, 1985 Someone else

</p>

</body>

</html>

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost/DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
```

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1.212 util-linux 2.37

1.212.1 Available under license :

| NR | START | END | SECTORS | SIZE | NAME | UUID |
|----|-------|-------|---------|------|------|-------------|
| 1 | 32 | 7679 | 7648 | 3.7M | | 8f8378c0-01 |
| 2 | 7680 | 16383 | 8704 | 4.3M | | 8f8378c0-02 |
| 5 | 7936 | 12799 | 4864 | 2.4M | | |
| 6 | 12544 | 16127 | 3584 | 1.8M | | |

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1.216 tcpdump 4.99.1

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```
# -*- perl -*-
```

```
$testlist = [  
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,  
  # which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.  
  {  
    config_unset => 'HAVE_NET_IF_PFLOG_H',  
    name => 'heap-overflow-1',  
    input => 'heap-overflow-1.pcap',  
    output => 'heap-overflow-1.out',  
    args => '-v'  
  },  
];  
  
1;  
License: BSD
```

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1.217 dbus-glib 0.112

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1.219 sdparm 1.12

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Allbery, Russ
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Bellis, Ray
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Bostley, P.J.
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1.224 libcap 2.51

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```

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1.225 php 7.4.21

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1.229 pcre 8.45

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1.230 iproute 5.13.0

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1.232 zope-hookable 5.1.0

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1.233 linux-kernel 5.13.2

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

Copyright (C) <year>

<name of author>

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Also add information on how to contact you by electronic and paper mail.

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

Here is a sample; alter the names:

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

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

That's all there is to it!

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You

can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser

General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

fee.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed

under the terms of the
Sections above.

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

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

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

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

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Version 3, 29 June 2007

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GNU General Public License for most of our software; it applies also to
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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

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

1. Source Code.

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

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

The

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

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

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a

covered work is covered

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;

section 10

makes it unnecessary.

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

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

This option is useful when you wish to copy part of the code of

the

Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

which the executable runs, unless that component itself accompanies the executable.

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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<name of author>

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Also add information on how to contact you by electronic and paper mail.

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

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Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
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@heading Preamble

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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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

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

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

To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

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

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

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

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

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

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

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

@item Source Code.

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

of a work.

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

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

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

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

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

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You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

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

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

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

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

@item Conveying Verbatim Copies.

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

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

@item

Conveying Modified Source Versions.

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

@enumerate a

@item

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

@item

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

@item

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

@item

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

@end enumerate

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

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of

sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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@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.

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

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

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User

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

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or

updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this

section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

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1.235 open-ldap 2.4.59

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1.236 glib 2.69.0

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* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*

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## 1.247 six 1.15.0

### 1.247.1 Available under license :

The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz  
immerrr again  
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Aymeric Augustin  
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## 1.249 webencodings 0.5.1

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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>
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- \* 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/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst
```

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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',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    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',
        'Programming Language :: Python :: 2',
        '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',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

```

Found in path(s):

```

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-
0.5.1/setup.py

```

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"""

webencodings.mklabels

~~~~~

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 mklabels.py

LABELS = {
    ""
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ' %s:%s %s,\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/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-

```


0.5.1/webencodings/tests.py

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-

0.5.1/webencodings/x_user_defined.py

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

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

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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>

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* 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

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python
:: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

1.250 example 21.12

1.250.1 Available under license :

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Metadata-Version: 2.1
Name: example
Version: 21.12
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: Apache Software License
Platform: UNKNOWN

UNKNOWN

Found in path(s):

* /opt/cola/permits/1403936596_1661910591.6366453/0/example-21-12-dist-info-zip/inputdir/packages_extracted/wheel/127/example-21.12.dist-info/METADATA

1.251 libconfig 1.7.3

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@c

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

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

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

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

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

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

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The modified work must itself be a software library.

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

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

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If a facility in the modified Library refers to a function or a table of

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

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

@end enumerate

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

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

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

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

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

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

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@item

You may copy and distribute the Library (or a portion or derivative of it, under Section 2)

in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

However, linking a ``work that uses the Library" with the Library creates

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is

unrestricted, regardless of whether it is legally a derivative work.

(Executables containing this object code plus portions

of the Library

will still fall under Section 6.)

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

distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether

or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a

``work that uses the Library" with the Library to produce a work

containing portions of the Library, and distribute that work under terms

of your choice, provided that the terms permit modification of the work

for the customer's own use and reverse engineering for debugging such

modifications.

You must give prominent notice with each copy of the work that the

Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work

during execution displays copyright notices, you must include the

copyright notice for the Library among

them, as well as a reference

directing the user to the copy of this License. Also, you must do one

of these things:

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Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever changes were used in the

work (which must be distributed under Sections 1 and 2 above); and, if

the work is an executable linked with the Library, with the complete

machine-readable ``work that uses the Library", as object code and/or

source code, so that the user can modify the Library and then relink to

produce a modified executable containing the modified Library. (It is

understood that the user who changes the contents of definitions files

in the Library will not necessarily be able to recompile the application

to use the modified definitions.)

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

@end enumerate

For an executable, the required form of the ``work that uses the Library" must include any data and utility programs needed for reproducing the executable from

it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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

@end enumerate

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@center END OF TERMS AND CONDITIONS

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@page

@center 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.

@format

@t{

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

Copyright (C) <year> <name of author>

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}

@end format

Also add information on how to contact you by electronic and paper mail.

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

@format

@t{

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

}

@end format

That's all there is to it!

@c @bye

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Version 2.1, February 1999

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

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

a) Accompany

the work with the complete corresponding

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

b) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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Version 3, 29 June 2007

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