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1.3 websocket-client 0.46.0

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1.4 python-websocket_client 0.57.0

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1.6 opensaml 3.0.0

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1.7 python-peewee 2.10.2

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1.8 python-mox 0.5.3

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1.11 kerberos 1.19.1
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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_exp_sec_context.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/mgglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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1.15 pytz 2021.1

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1.17 openssl 6.2.403

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1.18 python-pystatsd 3.3

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1.19 service-identity 18.1.0

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1.20 python-configobj 5.0.6

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1.21 pip 19.2.3

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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History
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The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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Bellis, Ray
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1.31 python-ldap 3.3.1

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1.32 smem 1.5

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src/do_ypcall.c
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src/libnsl.map
src/nisplus/nis_error.c
src/taddr2host.c
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src/ypprot_err.c
License: LGPL-2.1
Files: src/libc-lock.h
        src/nisplus/nis_add.c
        src/nisplus/nis_addmember.c
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        src/nisplus/nis_callback.c
        src/nisplus/nis_checkpoint.c
        src/nisplus/nis_clone_dir.c
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        src/nisplus/nis_xdr.h
        src/rpcserv/nislib.h
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        src/rpcserv/xis_callback.x
        src/rpcserv/xis_object.x
        src/rpcserv/xis_tags.h
Files: config.rpath
   m4/gettext.m4
   m4/host-cpu-c-abi.m4
   m4/iconv.m4
   m4/intlmacosx.m4
   m4/lib-ld.m4
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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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Lee Ball
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Ned Batchelder
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Revision 4.4.12, released 2019-09-24

- 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
------------------------------------
- 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
------------------------------------
- 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 looses 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
-----------------------------------
- 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
- 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

- 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

- 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

- 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

- 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

- 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

- 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

- 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

- 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

- Deprecated UsmUserData initializaton 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

- 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

- 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

- 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 classed are ObjectIdentity and ObjectType. The ObjectIdentity class additionally supports just a MIB module name initializer in which case if 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 then 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 atrfc1902.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

- 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.snmplabs.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 portentially 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
  asyncsock/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.
- SnmpEngine.[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.
- AsynCommandGenerator.makeReadVarBinds() generalized into a new
  makeVarBinds() method which replaces somewhat redundant code at setCmd()
  and AsynNotificationOriginator.sendNotification().
- AsynCommandGenerator.uncfgCmdGen() & AsynNotificationOriginator.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 MsgAndWaitDispatcher.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).

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.
- MibNameController.getMibName() 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 MibName explicit initialization calls removed at MibNameBuilder.
- 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 MibName variable 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 then from SNMP context.
- Fix a couple of bugs at MibNameTable* 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
- 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.

- One liner [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.

- One liner [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).

- One liner 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 one liner API.

- Mib Instrumentation subsystem re-worked to replace excessive MibName's smiCreate()/smiWrite()/smiDestroy() methods with MibScalarInstance's getValue()/setValue() method.

- MibName.tree.readTest[Get|Next] reworked to be called uniformly so user could tap on these methods at any level of the MIB tree.

- MibNameTableColumn.getTreeNodeWithValue() 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 MibNameController.readVarsFast() method removed for API clarity.

- MibNameBuilder 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
  implemtations. 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 AsynNotificationOriginator.sendNotification
  made defaulted to reflect its optional nature.
- Oneiner 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
- Fix to MibTree class to properly report noSuchObject & noSuchInstance SNMP special values.
- Fix to libsmi2pyssnm 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 uninitialized] 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

- 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 libsmi2pyssnm tool improved to handle incomplete SMI v1->v2 conversion performed by smidump. The remaining core SMIPv1 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 libsmi2pyssnm tool corrected accordingly.
- SMIPv1 MIB modules (including RFC1155 and RFC1213) were moved to pysnmp-mibs as pysnmp is SMIPv2-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, SMIPv2 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 comparation
  + 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

- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14

- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13

- 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

- 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.
- 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

- 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 districts search paths on each loadModule() 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.
- Oneiners 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 mpmod/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.

Revision 4.1.8a, released 2007-08-14

- 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/delVcmUser() 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.

Revision 4.1.7a, released 2007-02-19
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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 ...oneliner.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 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 mpmod/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

- 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

- UNSTABLE ALPHA RELEASE.
- SHA-based authentication fixed and privacy implemented
- ...oneliner.cmdgen.UsmUserData constructor now takes
  authProtocol and privProtocol parameters in a backward incompatible
  manner.

Revision 4.1.3a, released 2005-07-28

- 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

- 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 (midump -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.
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Further development

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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 drawbacks: 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/>`_.

Open Source Used In Cisco Expressway Series and Cisco TelePresence Video Communication Server X14.0.1 318
# 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.
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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
Maintainer: Ilya Etingof <etingof@gmail.com>
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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
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1.41 mock 1.0.1
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   version 1.2.11, January 15th, 2017

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   The data format used by the zlib library is described by RFCs (Request for
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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

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1.52 python-lxml 4.6.3

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1.58 net-tools 1.60
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    <signature of Ty Coon>, 1 April 1989
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1.59 vim 8.2.0821

1.60 less 563

1.60.1 Available under license:

Less License

Less

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1.63 subprocess32 3.5.4

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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Version 2.1, February 1999

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There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); re-placement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available 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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*
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*
* Basic encoding and decoding of Macintosh files to the
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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

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

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
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The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.
1.70 python-dbus 1.2.16

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1.72 daslr 20150612

1.72.1 Available under license:
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/*
 * libdASLR Function Definitions
 *
 * April 2011
 */
Open Source Used in Cisco Expressway Series and Cisco TelePresence Video Communication Server X14.0.1

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

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/dasl העיקרי-tar-xz/daslparameter-20150612-tar-xz/libdaslr/src/libdaslr.c
No license file was found, but licenses were detected in source scan.

*/
*---------------------------------------------------------------------------
* dASLR Application Printing Routines File
*
* April 2011
*
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*---------------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslparameter-20150612-tar-xz/daslparameter_app/src/daslparameter_app_print.c
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*/
*---------------------------------------------------------------------------
* dASLR Application Header File
*
* April 2011
*
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* All rights reserved.
*---------------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1096613684_1602154110.24/0/daslparameter-20150612-tar-xz/daslparameter_app/include/daslparameter_app.h
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*/
*---------------------------------------------------------------------------
* 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
* 
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* --------------------------------------------------------------
* /

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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/*
*--------------------------------------------------------------
* Result API Function Definitions
* 
* April 2011
* 
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*--------------------------------------------------------------
*/

Found in path(s):
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/*
*--------------------------------------------------------------
* dASLR Application Source
* 
* April 2011
* 
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*--------------------------------------------------------------
*/

Found in path(s):
/*
 *--------------------------------------------------------------
 * dASLR Application Constants 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_constants.h

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/*
 *--------------------------------------------------------------
 * dASLR Application Printing Routines 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_print.h

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/*
 *--------------------------------------------------------------
 * dASLR Application Error-Handling 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_error.h

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

/*
 *--------------------------------------------------------------
 * 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

1.73 pyasn1 0.4.8
1.73.1 Available under license:
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

.. _license:

License
=======

.. include:: ../../LICENSE.rst

Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/license.rst
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ASN.1 library for Python

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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# License: http://snmplabs.com/pyasn1/license.html
ASN.1 library for Python

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

.. toctree::

   :maxdepth: 1

Abstract Syntax Notation One (\`ASN.1 `<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`\`) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

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

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

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions 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 or 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
-------

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.. 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
  by Prof John Larmouth

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


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

  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/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

## 1.74 apache 2.4.46

### 1.74.1 Available under license:

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*/

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For the test\zb.c component:

```c
/*                          ZeusBench V1.01
                           ===============

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

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

/*

For the expat xml parser component:

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compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftll
compiler/cpp/src/thrifty.yy
lib/netstd/src/Protocol/TBinaryProtocol.cs
lib/netstd/src/Protocol/TField.cs
lib/netstd/src/Protocol/TLList.cs
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1.89 popt 1.18

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1.90 python-ujson 2.0.3

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1.91 python-pyinotify 0.9.6

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1.92 pythonurllib 1.25.9

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## Contributions to the urllib3 project

### Creator & Maintainer

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

### Contributors

In chronological order:

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

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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

* georgemarshall <https://github.com/georgemarshall>
  * Bug fixes, improvements and test coverage

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

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

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

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections
* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

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

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

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

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

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

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

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

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

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

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

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

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

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.
* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

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

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

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

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

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

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

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

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

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

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

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

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

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

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.
* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <stycarac@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]

1.93 sysv-init 2.90

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@end enumerate

@end example

@end example
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1.110 urllib3 1.25.10

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# Contributions to the urllib3 project

## Creator & Maintainer
* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

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

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

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

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

* p.dobrogost <http://code.google.com/u/@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>
  * IPv6 url support and test coverage

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

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

* Thomas Weischuh <thomas@t-8ch.de>
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* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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* Marc Schlaich <marc.schlaich@gmail.com>
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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `_util.selectors._fileobj_to_fd` to accept `long`.

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Open Source Used In Cisco Expressway Series and Cisco TelePresence Video Communication Server X14.0.1 861
* Update appveyor tox setup to use the 64bit python.

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

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

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

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

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

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

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

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

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

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

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

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

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename `VerifiedHTTPSConnection` to `HTTPSConnection`
* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <stycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

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

## 1.111 open-vm-tools 11.1.5-16724464

### 1.111.1 Available under license:

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Version 2.1, February 1999

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>>> freebsd-base64-4.8
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1.118 grep 3.6

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1.119 python-requests 2.25.1

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1.120 pycparser 2.20
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1.122 defusedxml 0.5.0

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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/o_time.h
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/*------------------------------------------------------------------
* kdf/kdf_802_11i.c - Key Derivation Function for 802.11i
*February 2015
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/*
 thelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/err/err.h
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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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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/aes/aes_x86core.c

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="/------------------------------------------------------------------
* include/cavium/cvmx-aes.h - Cavium Octeon specific hardware assist
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 *
* February 2013
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossfom-6-2a-201703281752-tar-gz/ciscossfom-6.2a.201703281752/crypto/aes/asm/aes-586.pl
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossfom-6-2a-201703281752-tar-gz/ciscossfom-6.2a.201703281752/crypto/aes/asm/aes-mips.pl

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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;
$LRSAVE=2*$SIZE_T;
$UCMP="cmpld";
$STU="stdu";
$POP="ld";
$PUSH="std";
} elsif ($flavour =~ /32/) {
$SIZE_T=4;
$LRSAVE=$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[Si],`Si*4`($inp)
___
$code.=<<___ if ($i<15);
  lwz@X[Sj],`Sj*4`($inp)
  add$Sf,$K,$e
  rotlw$t,Sa,5
  add$Sf,$b,$e
  and$St0,$c,$b
  add$Sf,$Sf,$e
  andc$t1,$d,$b
  rotlw$b,$b,30
  or$t0,$t0,$t1
  add$Sf,$Sf,$t0
___
$code.=<<___ if ($i>=15);
  add$Sf,$K,$e
  rotlw$e,$a,5
  xor@X[$j%16],@X[$j%16],@X[(j+2)%16]
  add$Sf,$f,$X[$i%16]
  and$St0,$c,$b
  xor@X[$j%16],@X[$j%16],@X[(j+8)%16]
  add$Sf,$f,$e
  andc$t1,$d,$b
  rotlw$b,$b,30
  or$t0,$t0,$t1
  xor@X[$j%16],@X[$j%16],@X[(j+13)%16]
  add$Sf,$Sf,$t0
  rotlw@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$Sf,$K,$e 
    rotlw$e,$a,5 
    xor@X[$j%16],@X[$j%16],@X[(j+2)%16] 
    add$Sf,$f,$X[$i%16] 
    xor@X[$j%16],@X[$j%16],@X[(j+8)%16] 
    add$Sf,$f,$e 
    rotlw$b,$b,30 
    xor$t0,$t0,$d 
    xor@X[$j%16],@X[$j%16],@X[(j+13)%16] 
    add$Sf,$Sf,$t0 
    rotlw@X[$j%16],@X[$j%16],1
___
  }
__
$code.=<<__ if ($i==79);
add$t0,$K,$e
rotlwi$t0,$a,5
lwz$t0,0($ctx)
add$t0,$t0,$e
rotlwi$s0,$s0,30
lwz$t0,4($ctx)
add$t0,$t0,$e
rotlwi$s0,$s0,30
lwz$t0,8($ctx)
add$t0,$t0,$d
lwz$t0,12($ctx)
add$t0,$t0,$t0
__
}

sub BODY_40_59 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<___;
add$t0,$K,$e
rotlwi$t0,$a,5
xor@X[$j%16],@X[$j%16],@X[($j+2)%16]
add$t0,$t0,$e
or$t1,$b,$c
rotlwi$s0,$s0,30
xor@X[$j%16],@X[$j%16],@X[($j+8)%16]
add$t0,$t0,$t0
__
}

$code=<<___;
_machine"any"
.text

.globl.sha1_block_data_order
.align4
.sha1_block_data_order:
$STU$sp,-$FRAME($sp)
mflr0
$PUSHr15,'$FRAME-$SIZE_T*17'($sp)
$PUSHr16,'$FRAME-$SIZE_T*16'($sp)
$PUSHr17,'$FRAME-$SIZE_T*15'($sp)
$PUSHr18,'$FRAME-$SIZE_T*14'($sp)
$PUSHr19,'$FRAME-$SIZE_T*13'($sp)
$PUSHr20,'$FRAME-$SIZE_T*12'($sp)
$PUSHr21,'$FRAME-$SIZE_T*11'($sp)
$PUSHr22,'$FRAME-$SIZE_T*10'($sp)
$PUSHr23,'$FRAME-$SIZE_T*9'($sp)
$PUSHr24,'$FRAME-$SIZE_T*8'($sp)
$PUSHr25,'$FRAME-$SIZE_T*7'($sp)
$PUSHr26,'$FRAME-$SIZE_T*6'($sp)
$PUSHr27,'$FRAME-$SIZE_T*5'($sp)
$PUSHr28,'$FRAME-$SIZE_T*4'($sp)
$PUSHr29,'$FRAME-$SIZE_T*3'($sp)
$PUSHr30,'$FRAME-$SIZE_T*2'($sp)
$PUSHr31,'$FRAME-$SIZE_T*1'($sp)
$PUSHr0,'$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,$inp,3
bneLunaligned
Laligned:
mtctr$num
blLsha1_block_private
bLdone

; 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...
.align4
Lunaligned:
subfic$t1,$inp,4096
andi.$t1,$t1,4095; distance to closest page boundary
srwi.$t1,$t1,6; t1/=64
beqLcross_page
$UCMP$num,$t1
ble-Laligned; didn't cross the page boundary
mtctr$t1
subfc$num,$t1,$num
blLsha1_block_private
Lcross_page:
li$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
bILsha1_block_private
$POP $inp,`$FRAME-$SIZE_T*18`($sp)
addic.$num,$num,-1
bne-Lunaligned

Ldone:
$POP r0,`$FRAME+$LRSAVE`($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)
mtlr0
addi$sp,$sp,$FRAME
blr
.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.=<<<___;
.align4
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,0xdc66

for(;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V.pop(@V)); }

$code.=<<<___;
addr16,r16,$E
addr17,r17,$T
addr18,r18,$A
addr19,r19,$B
addr20,r20,$C
stwr16,0($ctx)
mr$A,r16
stwr17,4($ctx)
mr$B,r17
stwr18,8($ctx)
mr$C,r18
stwr19,12($ctx)
mr$D,r19
stwr20,16($ctx)
mr$E,r20
addi$inp,$inp,`16*4`
bnez-Lsha1_block_private
blr
.long0
.byte0,12,0x14,0,0,0,0,0

__
$code.=<<__;
.asciz"SHA1 block transform for PPC, CRYPTOGAMS by <appro\@fy.chalmers.se>"
__

$code =~ s/`([^`]*)`/eval $1/gem;
print $code;
close STDOUT;

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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_x931.c
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 * crypto/bn/asm/modexp-octeon.c - Cavium Octeon specific hardware assist
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 * fips/kdf/fips_kdf_ikev2.c - IKEV2 KDF vector tests
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 * kdf/kdf_srtp.c - Key Derivation Function for SRTP
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  6.2a.201703281752/fips/ecdsa/fips_ecdsa_sign.c
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossf-lom-6-2a-201703281752-tar-gz/ciscossf-lom-
  6.2a.201703281752/test/fips_algvs.c
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossf-lom-6-2a-201703281752-tar-gz/ciscossf-lom-
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/ecdsa/ecs_locl.h
* /opt/cola/permits/1096633347_1602145442.64/0/ciscossl-fom-6-2a-201703281752-tar-gz/ciscossl-fom-6.2a.201703281752/crypto/ecdsa/ecdsa.h

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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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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 / -? / --help Show this help text.

Additional arguments are added to the file list to scan, assuming ‘-recurse’ was NOT specified on the command line.
@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+\(S+\)/) {
$inc{$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+\(S+\)/) {
$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 /^\# if/;
   $cpp-- if /^\# endif/;
   next;
}

$cpp = 1 if /^#.*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 (/typedef/W/ 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/\(\[\^[\(\)]\]\)/\{}/gs;
  s/\(\s*\*\s*(\w+)\s*\\{}\)/\$1/gs;
  # pretend as we didn't use curly braces: {} -> ()
  s/\{\}/\(\)/gs;
}

if (/\(\w+\)\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 $name)\n";
        ++$errcount;
    }
    $rassigned{$lib} .= "$code:";
    if (!$extra{$name}) {
        if ($code > $rmax{$lib}) {
            $rmax{$lib} = $code;
        }
    } else {
        if ($fassigned{$lib} =~ /:$code:/) {
            print STDERR "!! ERROR: $lib function code $code assigned twice (collision at $name)\n";
            ++$errcount;
        }
        $fassigned{$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/^:(.*)$/i;
        @fassigned = sort {$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/^:(.*)$/i;
        @rassigned = sort {$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 $config.\n";
        ++$errcount;
        print STDERR "\n";
    }
}

if ($1 eq "SSL") {
    if ($max{$lib} > 1000) {
        print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
        print STDERR "!!        Any new alerts must be added to $config.\n";
        ++$errcount;
        print STDERR "\n";
    }
}
foreach $file (@source) {
    # Don't parse the error source file.
    next if exists $cskip{$file};
    print STDERR "File loaded: ".$file."\n" 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:\nNo new error codes\n";
next unless $rebuild;
} else {
print STDERR "$lib:\n$fnew{$lib} New Functions,\n$rnew{$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(/^${lib}_/i,keys %fcodes);
my @reasons = sort grep(/^${lib}_/i,keys %rcodes);

# Rewrite the header file

if (open(IN, "<$hfile")) {
  # Copy across the old file
  while(<IN>) {
    push @out, $_;
  last if (/BEGIN ERROR CODES/);
  }
  close IN;
} else {
  push @out,
"/* ====================================================================
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ifndef HEADER_${lib}_ERR_H
#define HEADER_${lib}_ERR_H

#ifdef  __cplusplus
extern "C" {
#endif

"n",
"/* BEGIN ERROR CODES */
}
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 "\n#define $i%s $rcodes{$i}\n",	"x $z;
}
printf OUT "EOF;"

#endif __cplusplus
#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,"<$cfile")) {
  while (<IN>) {
    if (/\b(${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)
{
    $pack_errcode = "$\text{ERR\_LIB\_}${lib}\$";
    $load_errcode = "0";
} else {
    $pack_errcode = "0";
    $load_errcode = "$\text{ERR\_LIB\_}${lib}\$";
}

open (OUT,">$cfile") || die "Can't open $cfile for writing";

print OUT <<"EOF"
/* $cfile */
/* EOF */
/* ==============================================================*/
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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)
#endif

#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_functs[] =
{
  EOF
}

#define ERR_REASON(reason) ERR_PACK($pack_errcode,0(reason)

static ERR_STRING_DATA ${lib}_str_reasons[] =
{
  EOF
}

#define ERR_REASON(reason) ERR_PACK($pack_errcode,0(reason)

static void ERR_load_${lib}_strings(void)
{
    #define ERR_REASON(reason) ERR_PACK($pack_errcode,0(reason)

    static ERR_STRING_DATA ${lib}_str_functs[] =
    {
        EOF
    }

    static ERR_STRING_DATA ${lib}_str_reasons[] =
    {
        EOF
    }

    static void ERR_load_${lib}_strings(void)
    {
        #define ERR_REASON(reason) ERR_PACK($pack_errcode,0(reason)
ifndef 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

} 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)
    {
    ${lib}_error_init=0;
    #ifndef OPENSSL_NO_ERR
    ERR_load_strings(${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
    }
}
$\{\text{staticloader}\} \text{void ERR\textunderscore unload\textunderscore }\$\{\text{lib}\}\textunderscore \text{strings}(\text{void})$

{ }
if (\$\{\text{lib}\}\textunderscore \text{error\_init} == 0)
{ }
ifndef OPENSSL\_NO\_ERR
ERR\_unload\_strings(\$\{\text{lib}\}\textunderscore \text{lib\_error\_code},\$\{\text{lib}\}\textunderscore \text{str\_functs});
ERR\_unload\_strings(\$\{\text{lib}\}\textunderscore \text{lib\_error\_code},\$\{\text{lib}\}\textunderscore \text{str\_reasons});
endif

ifndef \$\{\text{lib}\}\textunderscore \text{LIB\_NAME}
ERR\_unload\_strings(0,\$\{\text{lib}\}\textunderscore \text{lib\_name});
endif
\$\{\text{lib}\}\textunderscore \text{error\_init}=1;
{ }

$\{\text{staticloader}\} \text{void ERR\textunderscore }\$\{\text{lib}\}\textunderscore \text{error}(\text{int function, int reason, char *file, int line})$

{ }
if (\$\{\text{lib}\}\textunderscore \text{lib\_error\_code} == 0)
\$\{\text{lib}\}\textunderscore \text{lib\_error\_code}=\text{ERR\_get\_next\_error\_library}();
\text{ERR\_PUT\_error}(\$\{\text{lib}\}\textunderscore \text{lib\_error\_code},\text{function},\text{reason},\text{file},\text{line});
{ }
EOF

close OUT;
undef %err\_reason\_strings;
{ }
if($\text{debug} \&\& \text{defined}(%\text{notrans})) { 
print STDERR "The following function codes were not translated:\n";
foreach(sort keys %\text{notrans})
{ 
print STDERR "$\_\n";
}

# Make a list of unreferenced function and reason codes

foreach (keys %f\text{codes}) { 
push (@\text{funref}, \$_) unless exists $\text{ufcodes}[\$_];
}

foreach (keys %r\text{codes}) { 
push (@\text{runref}, \$_) unless exists $\text{urcodes}[\$_];
}
if($debug && defined(@funref) ) {
    print STDERR "The following function codes were not referenced:\n";
    foreach(sort @funref)
    {
        print STDERR "$_
";
    }
}

if($debug && defined(@runref) ) {
    print STDERR "The following reason codes were not referenced:\n";
    foreach(sort @runref)
    {
        print STDERR "$_
";
    }
}

if($errcount) {
    print STDERR "There were errors, failing...\n\n";
    exit $errcount;
}

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/

#define FIPS_AUTH_KEY "etaonrishdlcupfm"
define FIPS_AUTH_CRYPTO_OFFICER "7f92562409c903322e0f94a1188ae8178339a4f"
define FIPS_AUTH_CRYPTO_USER "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"

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/* crypto/des/asm/ecb3_enc-octeon.c - Cavium Octeon specific hardware assist functionality that is to reside within the FIPS canister. */

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    * crypto/sha/asm/sha256-octeon.c - Cavium Octeon specific hardware assist
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* /opt/cola/permits/1096633347_1602145442.64/0/ciscossll-fom-6-2a-201703281752-tar-gz/ciscossll-fom-
  6.2a.201703281752/fips/utl/fips_mem.c

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Julian Berman
Jrgen Hermann
Kevin Horn
Kevin Turner
Laurens Van Houtven
Mary Gardiner
Massachusetts Institute of Technology
Matthew Lefkowitz
Moshe Zadka
Paul Swartz
Pavel Pergamenshchik
Rackspace, US Inc.
Ralph Meijer
Richard Wall
Sean Riley
Software Freedom Conservancy
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1.135 traceroute 2.1.0

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1.142 typing 3.7.4.1

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.153 python-pyparsing 2.4.7

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1.154 zope-event 4.5.0

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1.156 open-ldap 2.4.58

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1.159 libevent 2.1.10

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1.160 idna 2.10

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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',
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        'url': 'https://github.com/kjd/idna',
        'classifiers': [
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            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
        ]
    }

    setup(**arguments)
1.161 strace 5.11

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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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Written by: Zoltan Herczeg
Email local part: hzmester
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.170 ldb 1.2.840

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1.172 procps 3.3.17

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1.173 incremental 21.3.0

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1.175 python-pygobject 2.28.6
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1.176 zope-deprecation 4.4.0

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1.177 samba 4.13.3

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py
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```python
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",
    ],
)```
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
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.. _click-contrib: https://github.com/click-contrib/

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1.180 nettle 3.7.2

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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.

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:

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.)

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.

@item
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@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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@enumerate a
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@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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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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Ty Coon, President of Vice
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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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   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.

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

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

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

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

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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,
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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1.185 websocket-client 0.37.0

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1.188 gnutls 3.7.1

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49
+0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (efb@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004
10:09:19 +0200)
Gottfried Gansauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari.Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakov Jrv (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- cederag dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Frel (frel -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintemantel (wintemantel -at- imes.mavt.ethz.ch, wintemantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35;36 +0100)
Rene Rivera (grafik/redshift-software.com, rrvera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
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/mp_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mp11_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.

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<head></head>
<body>
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</h3>
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=======

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1.192 gch 0.1
1.192.1 Available under license :
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/*!
 * \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_client_database.c
 * \brief Client database source
 * *
 * Client database source
 * *
 * August 2014, Qiang Zhou
 * *
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 * All rights reserved.
 */
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
 *
 * All rights reserved.
 *
*/

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
 *
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 * All rights reserved.
 *
*/

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/*!
 * file ch_build_msg.h
 * brief Build msg related definitions
 *
 * Build msg related definitions
 *
 * August 2014, Qiang Zhou
 *
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 */
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/*!
 * \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.
 */

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.
 */

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.
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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/event-manager/src/ch_em_db_event_throttle.c
No license file was found, but licenses were detected in source scan.

骊!*
骊* src/ch_em_db_event_throttle.c
骊* Call-home event-manage MGR layer, provide lock mainly for event database data
骊* access
骊* July 2014, Qiang Zhou
骊* Copyright (c) 2014-2015 by cisco Systems, Inc.
骊* All rights reserved.
骊*/

骊* ch_em_mgr.c
骊* Call-home event-manage MGR layer
骊* July 2014, Qiang Zhou
骊* Copyright (c) 2014-2015 by cisco Systems, Inc.
骊* All rights reserved.
骊*/

骊* ch_lib_main_lib_ver.c
骊* GCH library main for GCH library version
骊* October 2015, Qiang Zhou
骊* Copyright (c) 2015 by cisco Systems, Inc.
骊* All rights reserved.
骊*/

骊* ch_lib_main_lib_ver.c
骊* GCH library main for GCH library version
骊* October 2015, Qiang Zhou
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骊*/
* \\file ch_pf_event.h
* \brief event API for platform implementation
*
* event related API prototypes, platform should implement them
*
* 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/pf/include/ch_pf_event.h
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/!*!
* \\file ch_pf_curl.h
* \brief callhome platform http interface
*
* depending on libcurl, send out http msg
*
* June 2014
*
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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/pf/include/ch_pf_curl.h
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/!*--------------------------------------------------------------
* cns_dom.c - Implementation of the dom object for the xml parser
*
* September 2006
*
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* 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
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/!*!
* \\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_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
*
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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/ds/src/ch_ds_api_public.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
*
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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/pf/include/ch_pf_event_throttle.h
No license file was found, but licenses were detected in source scan.

/*!
*
file call_home_ds_file.h
*brie* Provide file I/O API related definitions
*
* Provide file I/O API related definitions
*
* March 2011
*
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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/ds/include/call_home_ds_file.h
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
*
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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/ipc/src/ch_ipc_cli_server.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
*
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* 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_ipc_client_util.c
* \brief Util APIs for GCH IPC client instance
*
* Util APIs for GCH IPC client instance
*
* October 2015, 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_ipc_client_util.c
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/*!
* \file ch_mgr.h
* \brief define call-home MGR APIs
*
* define call-home MGR APIs
*
* June 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/include/ch_mgr.h
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/*!
* \file ch_ha.h
* \brief GCH HA infra PI part
*
* GCH HA infra PI part
*
* April 2015, 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/ha/include/ch_ha.h
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/*!
 * \file ch_backend_status.h
 * Brief Internal definitions for device backend status
 *
 * Internal definitions for device backend status
 *
 * 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/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
 *
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 * 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_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_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.
*/
Open Source Used In Cisco Expressway Series and Cisco TelePresence Video Communication Server X14.0.1

/*!
 * \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.
 */

/*!
 * \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.
 */

/*!
 * \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 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_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_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_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_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_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_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.

/!*!
* \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 call_home_ds_db_act_pri.h
* \brief 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 ch_statistics_util.c
* \brief 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.

/*----------------------------------------------
* 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.

September 2006

Copyright (c) 2006-2009, 2015 by Cisco Systems, Inc.
All rights reserved.

June 2014, Qiang Zhou

Copyright (c) 2014-2015 by Cisco Systems, Inc.
All rights reserved.

June 2014, Qiang Zhou

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All rights reserved.

June 2014, Qiang Zhou

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June 2014, Qiang Zhou

Copyright (c) 2014-2015 by Cisco Systems, Inc.
All rights reserved.

June 2014, Qiang Zhou

Copyright (c) 2014-2015 by Cisco Systems, Inc.
All rights reserved.
/*
 * 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_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
 *
 * 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_filter_action_output.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 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 call_home_ds_dnsld_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_dnsld_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_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_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.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_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 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):
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_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_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
 */
* 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.

SHARE!
* \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.

SHARE!
* \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.
/*---------------------------------------------*/
/* 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. */
/*---------------------------------------------*/
/*!
* \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/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_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_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 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):
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 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_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-i.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.

AtPath:
*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/0/gch-v0.1-i.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.

AtPath:
/*! 
* 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-i.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.

AtPath:
/*! 
* 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-i.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.

AtPath:
/*! 
* 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.

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.

Provide DS action related APIs

March 2011,

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

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

#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 multiple 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_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_lib_client_sl.c
* \brief Provide lib APIs for SL client
*
* Provide lib APIs for SL client
* 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_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_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_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_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 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):
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.
 */

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.
 */

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 cron.h
 * \brief CRON related definitions
 *
 * CRON related definitions
 *
 * August 2014, Qiang Zhou
 *
 * Copyright (c) 2014-2015 by cisco Systems, Inc.
 * All rights reserved.
 */

 * 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
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 * 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_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.
Farm 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_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_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 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.
/* 
 * \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 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_debug.c
 * \brief Call-home debug facility
 * 
 * Call-home debug facility
 * 
 * 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/test/ch_internal_test_main.h
No license file was found, but licenses were detected in source scan.
/*
 * ch_em_ipc_server.h
 * 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/include/ch_em_ipc_server.h
No license file was found, but licenses were detected in source scan.

/*!
 * ch_db_event.c
 * 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/include/ch_db_event.c
No license file was found, but licenses were detected in source scan.

/*!
 * ch_statistics_util.h
 * 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_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_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):
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
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 ch_db_generic.c
* \brief Maintain call-home database(except profile)
*
* Maintain call-home database, except 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/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 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/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_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/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_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_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 ch_pf_global.h
* \brief define call-home PD global macro
* 
* This header file defines call-home platform-dependent global macro
No license file was found, but licenses were detected in source scan.

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

No license file was found, but licenses were detected in source scan.
* 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_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_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.
extract download info from update response

May 2011, Chenqi Wang

Copyright (c) 2011-2013, 2015 by cisco Systems, Inc.
All rights reserved.

August 2014, Qiang Zhou

Copyright (c) 2014-2015 by cisco Systems, Inc.
All rights reserved.

July 2014, Qiang Zhou

Copyright (c) 2014-2015 by cisco Systems, Inc.
All rights reserved.
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_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_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):
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/include/ch_lib_sl.h

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_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.
 */
/*!
* \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.
*/

/*!
* \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.
*/

/*!
* \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_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 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 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_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 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_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_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 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_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_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_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.

/*-------------------------------
 * cns_container.c - Implementation of the container object for the
 * xml parser
 *
 * Septermber 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_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.
/*!
 * \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_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_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_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_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.
*/
/!*!
* \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.
*/

/*!
* \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.
*/

/*!
* \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.
Open Source Used In Cisco Expressway Series and Cisco TelePresence Video Communication Server X14.0.1 1825

/*

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_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 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_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.
/*
 * \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.
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* 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_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.

/*/!
Header file for digital signature API

May 2011, Chenqi Wang

Copyright (c) 2011-2012, 2015 by cisco Systems, Inc.
All rights reserved.

Provide implementation to build short/long text msg

August 2014, Qiang Zhou

Copyright (c) 2014-2015 by cisco Systems, Inc.
All rights reserved.

Sample code for call-home nvconfig implementation on PD

December 2014, Qiang Zhou

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

Found in path(s):
/*!
 * \file call_home_ds_db_evt_pri.h
 * \brief define DS event related structure
 * 
 * define DS event related structure
 * 
 * March 2011, Long Yang
 * 
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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/ds/include/call_home_ds_db_evt_pri.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
 * 
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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/event-manager/src/ch_em_ed.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
 * 
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/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 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
* 
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/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 ch_ipc_sl_server.c
* \brief GCH sl ipc server instance
* 
* GCH sl ipc server instance
* 
* October 2015, Qiang Zhou
* 
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*/

Found in path(s):
* /opt/cola/permits/1096613999_1602157034.18/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_em_cb.c
* \brief Provide wrapper APIs related with EM
* 
* Provide wrapper APIs related with EM, event reg/cb
* 
* March 2011,
*
1.193 udev 167

1.193.1 Available under license:

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1.194 util-linux 2.36.2

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5  7936 12799    4864 2.4M
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1.195 zope-component 4.6.2

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<signature of Ty Coon>, 1 April 1990
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---

1.202 e2fsprogs 1.46.2

1.202.1 Available under license:

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

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:		$(BSD_LIB)
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(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)
Open Source Used In Cisco Expressway Series and Cisco TelePresence Video Communication Server X14.0.1

@-$LDCONFIG

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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

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

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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

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

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2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snntp
11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
Open Source Used in Cisco Expressway Series and Cisco TelePresence Video Communication Server X14.0.1 1952

1. Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
2. Steve Clift <clift@ml.csiro.au> OMEGA clock driver
3. Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
4. Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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7. Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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15. Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntptime
16. Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
17. Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
18. Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snp to comply with NTPV4 specification, ntpq saveconfig
19. William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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21. Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
22. George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
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24. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
25. Danny Mayer <d@nt.org> Network I/O, Windows Port, Code Maintenance
26. David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
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31. Derek Mulcay <derek@toybox.demon.co.uk> and Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
32. Rob Neal <neal@nt.org> Bancomm refclock and config/parse code
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> maintenance/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnittz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atlsoft.de
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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
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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will operate properly with a modified version of the library, if
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1.210 python-pycrypto 2.7a1
1.210.1 Available under license :

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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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== EOF ==

1.211 sed 4.8

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bs symbolic

## 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) $< \n | sed \"\s/\(.*\)\.o\[ :\]*/\1.o $@ : /g\" > $@; \n [ -s $@ ] \| rm -f $@’
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed \"\s/\(.*\)\.o\[ :\]*/\1.o $@ : /g\" > $@; \n [ -s $@ ] \| rm -f $@’

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
1.214 glib 2.68.0

1.214.1 Available under license:

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Version 2.1, February 1999

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AUTHOR:  Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
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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
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Description: Think about the ideal way to write a web app. Write the code to make it happen.
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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

Note that it is possible for a library to be covered by the ordinary
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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
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Library" means either the Library or any derivative work under
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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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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.

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

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

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

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

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

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

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

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

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

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

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

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.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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   b) Accompany it with a written offer, valid for at least three
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      customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
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The source code for a work means the preferred form of the work for
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code means all the source code for all modules it contains, plus any
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1.230 enum34 1.1.10

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

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

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If 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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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $
1.234 zope.proxy 4.3.5

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

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

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

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m68[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.
Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

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

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

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

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

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

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1.247  cracklib 2.9.7
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^L

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<signature of Ty Coon>, 1 April 1990
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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
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
> -----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=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> 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
> > > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > > license
> > > change until it was mentioned in the latest notes.
> > > unlike the old license, GPL-2 prevents people from using cracklib
> > > unless their
> > > applications are also GPL-2 which imo is just wrong, it isnt the
> > > place of a
> > > library to dictact to application writes what license they should
> > > be using,
> > > thus LGPL-2.1 enters to fill this void.
> > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

Devin

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.
I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> 
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
> 
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

-mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> yes, go for it. thanks++

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

-mike

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

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

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

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

--------------------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 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 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> -------- Forwarded message --------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 

Open Source Used In Cisco Expressway Series and Cisco TelePresence Video Communication Server X14.0.1 2436
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.248 sdparm 1.11
1.248.1 Available under license:

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This package was debianized by Tomas Fasth <tomfa@debian.org> on

It was downloaded from http://sg.danny.cz/sg/p/sdparm-0.93.tgz

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1.249 libevdev 1.5.8

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1.250 constantly 15.1.0-2.ph3

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1.251 xmltooling 3.0.4

1.251.1 Available under license :
OpenSAML XMLTooling C++ Library

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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