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

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

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

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

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

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

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

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

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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That's all there is to it!

1.2 pyyaml 5.4.1

1.2.1 Available under license :

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1.3 python-contextlib2 0.6.0

1.3.1 Available under license :

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==========

contextlib2 is a derivative of the contextlib module distributed by the PSF
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was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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 that included the contextlib module.

Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes

3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2	2012	PSF	yes

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1.4 bzip2 1.0.8

1.5 jwcrypto 0.9.1

1.5.1 Available under license :

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1.6 wget 1.21.1

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Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>
Source: https://github.com/thkukuk/libnsl

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Files: AUTHORS
    configure.ac
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Files: src/libc-lock.h
src/nisplus/nis_add.c
src/nisplus/nis_addmember.c
src/nisplus/nis_call.c
src/nisplus/nis_callback.c
src/nisplus/nis_checkpoint.c
src/nisplus/nis_clone_dir.c
src/nisplus/nis_clone_obj.c
src/nisplus/nis_clone_res.c
src/nisplus/nis_creategroup.c
src/nisplus/nis_defaults.c
src/nisplus/nis_destroygroup.c
src/nisplus/nis_domain_of.c
src/nisplus/nis_domain_of_r.c
src/nisplus/nis_file.c
src/nisplus/nis_findserv.c
src/nisplus/nis_free.c
src/nisplus/nis_getservlist.c
src/nisplus/nis_hash.c
src/nisplus/nis_intern.h
src/nisplus/nis_ismember.c
src/nisplus/nis_local_names.c
src/nisplus/nis_lookup.c
src/nisplus/nis_mkdir.c
src/nisplus/nis_modify.c

src/nisplus/nis_ping.c
src/nisplus/nis_print.c
src/nisplus/nis_print_group_entry.c
src/nisplus/nis_remove.c
src/nisplus/nis_removemember.c
src/nisplus/nis_rmdir.c
src/nisplus/nis_server.c
src/nisplus/nis_subr.c
src/nisplus/nis_table.c
src/nisplus/nis_util.c
src/nisplus/nis_verifygroup.c
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src/nisplus/nis_xdr.h
src/rpcsvc/nislib.h
src/rpcsvc/ypclnt.h
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src/rpcsvc/nis_callback.x
src/rpcsvc/nis_object.x
src/rpcsvc/nis_tags.h
src/rpcsvc/nis.h
src/rpcsvc/nis.x
src/rpcsvc/yp.h
src/rpcsvc/yp.x
src/rpcsvc/yp_prot.h
src/rpcsvc/yppasswd.h
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m4/gettext.m4
m4/host-cpu-c-abi.m4
m4/iconv.m4
m4/intlmacosx.m4
m4/lib-ld.m4
m4/lib-link.m4
m4/lib-prefix.m4
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1.10 python-setuptools 46.1.3

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1.11 net-snmp 5.9.1

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1.13 pytz 2021.1

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1.14 python-mox 0.5.3

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1.15 bidict 0.18.3

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1.16 kerberos 1.19.1

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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
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c

lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c

lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.19 gawk 5.1.0

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

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1.20 ifupdown 0.8.35

1.20.1 Available under license :

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34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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1.27 openssl 1.1.1l

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1.29 libcap 2.51

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1.30 enum34 1.1.10

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1.33 pyrfc3339 1.1

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1.34 psmisc 23.4

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```
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```
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1.35 megactl 0.4.1

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1.36 opensaml 3.0.0

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mail.

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your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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

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

That's all there is to it!

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

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

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly

> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

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

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

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this

> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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>=20
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> 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,
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> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

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

yes. go for it. thanks++

-a

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

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

>
> yes. go for it. thanks++

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

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

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

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)

In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.38 procps 3.3.17

1.38.1 Available under license :

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1.39 six 1.16.0

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##########

Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009
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##
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1.42 boost 1.76.0

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[#mpl]
MPL Support, <boost/mp11/mpl.hpp>

:toc:
:toc-title:
:idprefix:

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

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

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

   1963, 1964, 1965 Jane Doe

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 </body>
</html>
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 <title>Copyright Test</title>
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  </copyright>
  <copyright>
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1.44 zope-component 5.0.0

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1.45 util-linux 2.37.4

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1.46 mod-authnz-external 3.3.3

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* Based on code from The Apache Group

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1.47 log4cxx 0.11.0

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```

Found in path(s):
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Serializer/TBinarySerializer.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Exception/TProtocolException.php

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*
* @package thrift.processor
*/

Found in path(s):
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/StoredMessageProtocol.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/TMultiplexedProcessor.php
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=====

The code provided by this library is from:
https://github.com/apache/thrift/tree/master/lib/php/lib

This repo has been created to provide the thrift protocol via composer

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Dependencies
============

PHP_INT_SIZE

 This built-in signals whether your architecture is 32 or 64 bit and is
 used by the TBinaryProtocol to properly use pack() and unpack() to
 serialize data.

apc_fetch(), apc_store()

 APC cache is used by the TSocketPool class. If you do not have APC installed,
 Thrift will fill in null stub function definitions.

Found in path(s):
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/README.md
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*
* ClassLoader to load Thrift library and definitions
* Inspired from UniversalClassLoader from Symfony 2
*
* @package thrift.classloader
*/
```

Found in path(s):
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-

dbf4e5f/src/ClassLoader/ThriftClassLoader.php
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*
*/

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* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/StringFunc/Mbstring.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Server/TSSLServerSocket.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Factory/TStringFuncFactory.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/StringFunc/Core.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/StringFunc/TStringFunc.php
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*
* @package thrift
*/

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* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Type/TConstant.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Base/TBase.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Type/TType.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Exception/TException.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Type/TMessageType.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Exception/TApplicationException.php
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*
* @package thrift.protocol
*/

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* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/JSON/ListContext.php

* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/SimpleJSON/Context.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/TProtocolDecorator.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/TProtocol.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/SimpleJSON/CollectionMapKeyException.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/SimpleJSON/ListContext.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/JSON/BaseContext.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/SimpleJSON/MapContext.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/JSON/LookaheadReader.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/TJSONProtocol.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/TBinaryProtocolAccelerated.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Factory/TProtocolFactory.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Factory/TBinaryProtocolFactory.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Factory/TJSONProtocolFactory.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/TBinaryProtocol.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Factory/TCompactProtocolFactory.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/TSimpleJSONProtocol.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/SimpleJSON/StructContext.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/TMultiplexedProtocol.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/JSON/PairContext.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Protocol/TCompactProtocol.php
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*
* @package thrift.transport
*/

Found in path(s):
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TTransport.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TBufferedTransport.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Server/TServerSocket.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TNullTransport.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TMemoryBuffer.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TCurlClient.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/THttpClient.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TFramedTransport.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Exception/TTransportException.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TPhpStream.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TSSLSocket.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TSocket.php
* /opt/cola/permits/1212752309_1633954627.39/0/packaged-thrift-0-15-0-0-gdbf4e5f-zip/packaged-thrift-dbf4e5f/src/Transport/TSocketPool.php

1.50 e2fsprogs 1.46.2

1.50.1 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)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

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This is the Debian GNU/Linux prepackaged version of the translation
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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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)
*/
 /*
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+   trivial database library - standalone version

- trivial database library - private includes
-
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repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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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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For the server\util_md5.c component:

/***
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign

```
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Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
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  }
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1.54 suds 0.4

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Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC

```
SHAREDLIBCPPFLAGS = -DPIC

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

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

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

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


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

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

## Versioned libraries rules
```

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

##  Bind internal references

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

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

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

## End BSD-specific setup
```

1.65 python3-asn1crypto 1.4.0

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1.66 python-netifaces 0.11.0

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1.67 sslh 1.21c

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1.68 sed 4.8

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1.69 pyratemp 0.3.2

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1.70 click 7.1.2

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

Found in path(s):
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py
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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
  readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
  version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)

setup(
  name="click",
  version=version,
  url="https://palletsprojects.com/p/click/",
  project_urls={
     "Documentation": "https://click.palletsprojects.com/",
     "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",
  ],
)
```

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* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py
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```
.. _contrib:

=============
click-contrib
=============

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different
than what you expect from Click itself. While published under a common
```

organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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1.71 automat 20.2.0

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1.72 python-configobj 5.0.6

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1.73 ndg-httpsclient 0.5.1-4.ph4

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1.74 linux-kernel 5.17

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
*
```

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*
* M. Welsh, 6 July 1996
*
*
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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

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1.84 samba 4.14.5

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1.86 iputils 20210202

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1.87 python-zipp 3.4.0

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1.88 nghttp2 1.43.0

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1.89 lxml 4.6.3

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1.90 stringencoders 3.10.3

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1.91 distro 1.5.0-1.ph4

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1.92 strace 5.12

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1.101 libnsl 1.3.0

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Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>
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    config.h.in
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    src/Makefile.am
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    src/nisplus/nis_error.c
    src/taddr2host.c
    src/taddr2ipstr.c
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    src/yp_first.c
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Files: src/libc-lock.h
src/nisplus/nis_add.c
src/nisplus/nis_addmember.c
src/nisplus/nis_call.c
src/nisplus/nis_callback.c
src/nisplus/nis_checkpoint.c
src/nisplus/nis_clone_dir.c
src/nisplus/nis_clone_obj.c
src/nisplus/nis_clone_res.c
src/nisplus/nis_creategroup.c
src/nisplus/nis_defaults.c
src/nisplus/nis_destroygroup.c
src/nisplus/nis_domain_of.c
src/nisplus/nis_domain_of_r.c
src/nisplus/nis_file.c
src/nisplus/nis_findserv.c
src/nisplus/nis_free.c
src/nisplus/nis_getservlist.c
src/nisplus/nis_hash.c
src/nisplus/nis_intern.h
src/nisplus/nis_ismember.c
src/nisplus/nis_local_names.c
src/nisplus/nis_lookup.c
src/nisplus/nis_mkdir.c
src/nisplus/nis_modify.c
src/nisplus/nis_ping.c
src/nisplus/nis_print.c
src/nisplus/nis_print_group_entry.c
src/nisplus/nis_remove.c
src/nisplus/nis_removemember.c
src/nisplus/nis_rmdir.c
src/nisplus/nis_server.c
src/nisplus/nis_subr.c
src/nisplus/nis_table.c
src/nisplus/nis_util.c
src/nisplus/nis_verifygroup.c
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src/rpcsvc/nis_callback.x

src/rpcsvc/nis_object.x
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src/rpcsvc/nis.h
src/rpcsvc/nis.x
src/rpcsvc/yp.h
src/rpcsvc/yp.x
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m4/gettext.m4
m4/host-cpu-c-abi.m4
m4/iconv.m4
m4/intlmacosx.m4
m4/lib-ld.m4
m4/lib-link.m4
m4/lib-prefix.m4
m4/libtool.m4
m4/ltoptions.m4
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po/Makevars
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1.104 pycurl 7.43.0.2

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1.111 python-wrapt 1.12.1

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1.113 cffi 1.14.5

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1.115 kmod 29

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
```

```
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
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1.117 pyrsistent 0.16.0

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1.118 pyopenssl 19.1.0

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1.119 python-pycrypto 2.7a1

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Last updated: 2009-02-28

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=== EOF ===

1.120 websocket-client 0.57.0

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1.121 pyparsing 2.4.7-1.ph4

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1.122 python3-asn1crypto 1.4.0-1.ph4

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1.123 findutils 4.8.0

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Version: 0.36
Summary: web.py: makes web apps
Home-page: http://webpy.org/
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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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1.126 ncurses 6.2-20210626

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1.128 apr 1.7.0

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1.131 pycparser 2.20

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pycparser -- A C parser in Python

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1.133 typing 3.7.4.1

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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

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

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@page
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@var{signature of Ty Coon}, 1 April 1990
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@end iftex
@ifinfo
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@end ifinfo

@page
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@end smallexample

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@end smallexample

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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 - the GNU.Gettext.dll C# library,
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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
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compilation
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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
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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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

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

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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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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run

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1. Source Code.

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

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

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

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1.143 python-configparser 4.0.2

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1.144 jitterentropy-rngd 1.2.2

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1.145 urllib3 1.26.6

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1.146 libedit 20170329-3.1

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1.147 zope-interface 5.4.0

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1.148 idna 2.10

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* /opt/cola/permits/1265256002_1643889721.05/0/kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/LICENSE.rst
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"""
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

```
import io, sys
from setuptools import setup


def main():

  python_version = sys.version_info[:2]
  if python_version < (2,7):
     raise SystemExit("Sorry, Python 2.7 or newer required")

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

  arguments = {
     'name': 'idna',
     'packages': ['idna'],
     'version': package_data['__version__'],
     'description': 'Internationalized Domain Names in Applications (IDNA)',
     'long_description': io.open("README.rst", encoding="UTF-8").read(),
     'author': 'Kim Davies',
     'author_email': 'kim@cynosure.com.au',
     'license': 'BSD-like',
     'url': 'https://github.com/kjd/idna',
     'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
```

```
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()
```

Found in path(s):
* /opt/cola/permits/1265256002_1643889721.05/0/kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/setup.py

1.149 python-peewee 2.10.2

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1.150 smem 1.5

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1.151 python-requests 2.26.0

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1.152 log-rotate 3.18.0

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4. Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX," "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary releases.

This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of
contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like
copyright found in LICENSE that covers our generic code and most of
the system specific ports.
Please read LICENSE first to find out what is allowed to do with
Info-ZIP's UnZip code.

- -

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

All remaining code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion
core routines, previously put into the public domain). All these
Info-ZIP contributors (or "primary" authors) have permitted us to
replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

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).

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

```
 * MoreFiles
 *
 * A collection of File Manager and related routines
 *
 * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
 * with significant code contributions by Nitin Ganatra
 * (Apple Macintosh Developer Technical Support Emeritus)
 * Copyright  1992-1998 Apple Computer, Inc.
 * Portions copyright  1995 Jim Luther
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 *
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 *          it clear in the source that the code was descended
 *          from Apple Sample Code, but that you've made
 *          changes."
```

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Info-ZIP license, they do not add further restrictions.

The following copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

```
  *  MacBinaryIII.h
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
  * ---------------------------------------------------------------------
  * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
  * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
  * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume
that this code is freely reusable until we are proved wrong...

The remaining copyright notes have been superseeded by the new
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original authors. They are cited here for historical reasons,
only:

The following copyright applies to the full-featured unreduce.c
(now distributed separately):

```
  * Copyright 1989 Samuel H. Smith;  All rights reserved
  *
  * Do not distribute modified versions without my permission.
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  * If you use this in your own program you must distribute source code.
  * Do not use any of this in a commercial product.
```

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

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

Despite the fact that our "normal" code has been entirely rewritten

and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our 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.

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

```
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```

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```
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  * problems understanding this can contact me through Zip-Bugs...
```

The following copyright applied to the Windows DLL code (windll/*), distributed with UnZip version 5.2 and later:

```
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```

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* Miller. The product "Pocket UnZip" itself is property of the
* author and cannot be altered in any way without written consent
* from Steve P. Miller.

The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

1.156 ed 1.17

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1.157 libuv v1.9.1

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* /opt/cola/permits/1170748180_1622679290.22/0/tantale-deprecated-v1-2-12-0-ge84ec77-1-tar-gz/tantale-deprecated-93b3f61/LICENSE.rst
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* Being respectful of differing viewpoints and experiences
* Gracefully accepting constructive criticism
* Focusing on what is best for the community
* Showing empathy towards other community members

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* Publishing others' private information, such as a physical or electronic address, without explicit permission
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```
%global srcname Deprecated
%global pkgname deprecated

Name:          python-%{pkgname}
Version:       1.2.12
Release:       2%{?dist}
Summary:       Python decorator to deprecate old python classes, functions or methods
License:       MIT
URL:           https://github.com/tantale/%{pkgname}
Source0:       %{pypi_source}
BuildArch:     noarch

%description
Python @deprecated decorator to deprecate old python classes,
functions or methods.

%package -n python3-%{pkgname}
Summary:       %{summary}
BuildRequires:  python3-devel
BuildRequires:  python3-setuptools
%{?python_provide:%python_provide python3-%{pkgname}}

%description -n python3-%{pkgname}
Python @deprecated decorator to deprecate old python classes,
functions or methods.

%prep
%autosetup -n %{srcname}-%{version}
rm -rf %{pkgname}.egg-info

%build
%py3_build

%install
%py3_install

%files -n python3-%{pkgname}
%license LICENSE.rst
%doc README.md
%{python3_sitelib}/%{pkgname}/
%{python3_sitelib}/%{srcname}-*.egg-info/
```

%changelog
* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-2
- Fix python3_sitelib issue

* Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-1
- Initial package

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* /opt/cola/permits/1170748180_1622679290.22/0/tantale-deprecated-v1-2-12-0-ge84ec77-1-tar-gz/tantale-deprecated-93b3f61/python-deprecated.spec
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1.159 curl 7.77.0

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1.160 functools32 3.2.3-2

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A. HISTORY OF THE SOFTWARE
==========

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.162 zlib 1.2.11

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1.163 zope-deprecation 4.4.0

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1.164 gdb 10.2

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1.166 future 0.18.2

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1.167 irqbalance 1.8.0

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1.168 python-pathlib 1.0.1

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1.169 tcpdump 4.99.1

1.169.1 Available under license :

```
# -*- perl -*-

$testlist = [
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
  # which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.
  {
     config_unset => 'HAVE_NET_IF_PFLOG_H',
```

```
        name => 'heap-overflow-1',
        input => 'heap-overflow-1.pcap',
        output => 'heap-overflow-1.out',
        args   => '-v'
    },
];

1;
```

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1.170 dns-python 1.16.0

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1.171 freeipmi 1.6.8

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see

https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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>>> freebsd-base64-4.8
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.181 gawk 5.1.0

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1.182 packaging 21.0

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1.183 pcre 8.45

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included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These
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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

University of Cambridge Computing Service,
Cambridge, England.

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1.184 python-pysnmp 4.4.12

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Found in path(s):
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/setup.py
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Further development

Although PySNMP is already a mature software and it is being used at many
places, the ultimate goal of the project is to implement most of the useful
features that SNMP standards can offer. What follows is a list of most
prominent missing features that PySNMP developers are planning to put their

hands on in the future.

PySNMP library
++++++++++++++

#. Built-in MIB parser. PySNMP uses a data model of its own to work with
  information contained in MIB files. To convert ASN.1-based MIB texts
  into Python modules, an off-line, third-party tool is employed. As it
  turns out, this approach has two major drawback: one is that PySNMP
  users may need to pre-process MIB texts to use them with their
  PySNMP-based applications. Another is that LibSMI's Python driver
  seems to miss some information carried by MIBs. Thus the solution would
  be to write another MIB parser and code generator which would produce
  PySNMP compliant Python code right from MIB text files all by itself.

  Done: see `PySMI project <http://snmplabs.com/pysmi/>`_ in conjuction 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-graned access
  control and logging.

  Done: see `SNMP Proxy Forwarder <http://snmplabs.com/snmpfwd/>`_.

#. SNMP Trap Receiver. We see this application as a simple yet flexible
  SNMP TRAP collector. It would listen on network sockets of different
  types receiving SNMP TRAP/INFORM notifications over any SNMP version
  and putting all the details into a database and possibly triggering
  external events.

#. Database backend for SNMP Simulator. We have already built a tool for
  simulating SNMP Agents based on a snapshot of their Management
  Instrumentation state. Current implementation uses a plain-text file
  for keeping and possibly managing the snapshot. Many users of the
  Simulator software requested a value variation feature to be supported
  so that simulated Agents would look live, not static. We consider this
  variation and also dependencies features would be best implemented as
  a relational database application. So we are planning to put some more
  efforts into the Simulator project as time permits.

  Done: since `snmpsim-0.2.4 <http://snmplabs.com/snmpsim/>`_

If you need some particular feature - please,
`open a feature request <https://github.com/etingof/pysnmp/issues/new>`_ . Once we
see a greater demand in particular area, we would re-arrange our
development resources to meet it sooner.

You could greater speed up the development of particular feature by
sponsoring it. Please get back to us to discuss details.

Contributions to the PySNMP source code is greatly appreciated as well.
We require contributed code to run with Python 2.4 through the latest
Python version (which is 3.7 at the time of this writing). Contributed
code will be redistributed under the terms of the same
`license <http://snmplabs.com/pysnmp/>`_ as PySNMP is.

Found in path(s):
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/docs/source/development.rst
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Found in path(s):
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/README.md
No license file was found, but licenses were detected in source scan.

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
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* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28

- 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

- 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

- 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

- 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 insignt on security modules
internals.
- TEXTUAL-CONVENTION's DISPLAY-HINT text formatting reworked for better
performance and encoding accurancy 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

- 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

- 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 identifieirs 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 asynsock/twisted dispatchers so that original traceback is preserved.
- A single instance of transport dispatcher can now serve multiple receivers (identified by IDs) chosen by a public data routing method.
- 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 operatons 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 AsynsockDispatcher's
socket map and not to touch default asyncore's one. The latter have caused
dispatcher/transport restarting issues.
- The delV3User() function improved to drop all rows from USM table that
were cloned from the target one.
- Fix to exceptions handling at MsgAndPduDispatcher.sendPdu() to avoid

sendPduHandle miss (followed by system crash) on cache expiration run.
- Break cyclic references at CommandResponder and NotificationReceiver apps
through close() method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to SnmpAdminString, SnmpTagList, SnmpTagValue types to make them
supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a
bogus stateReference in some cases what causes SNMP engine crashes.
- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components
sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on
unconfirmed notifications reception (to let NotificationReceiver
Apps browsing request details).
(transport information at the moment) at SNMP engine.
- Asyncsock sockets now configured with SO_REUSEADDR option to fix possible
Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30

- SNMPv3 high-level and native API examples reworked and extended to cover
many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up
at local Management Instrumentation and attached to TRAP/INFORM message
by Notification Originator is now fully implemented.
- The missing functionality of passing Response PDU contents of INFORM
request is now implemented at Notification Originator app. The return
value of NotificationOriginator.sendNotification is now a composite object
that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params
to Notification Originator is now implemented. It may make sense for
INFORMs.
- The missing functionality of passing contextName to oneliner
version of NotificationOriginator.sendNotification is now implemented.
- Oneliner example apps now include cases where non-default SNMP
ContextEngineId/ContextName/SecurityEngineId is used.
- The contextName parameter of SnmpContext.getMibInstrum made optional.
- AbstractMibInstrumController class added as a base class for all possible
kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuilder() added.
- I/O sockets buffer sizes made configurable, minimum default is now
forced to be no less than 2**17 (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.

- VACM modules converted from a function into an object to let it keep
state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at
NotificationOriginator.sendNotification()
- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and
report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen
on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsynNotificationOriginator.sendNotification() to make
a) the notificationType param mandatory b)t e varBinds param really
optional
- Fixes to ContextEngineId/ContextName support at the oneliner API: now
both items should be passed to request PDU through Cmd() request
initiation method, the items of authData object should be used only for
LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now
it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is
not mandatory anymore with the oneliner API. Also additionalVarBinds
defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source
modules appeared to be unnecessary and even destructive to modules
data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System
used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID
values from SNMP engine's instrumentation rather then from SNMP context.
- Fix a couple of bugs at MibTable* logic involved for table instances
creation.
- Fix to Management Instrumentation code to handle cases of non-initialized
or not-compliant-to-constraints Managed Objects Instances.
- Fix to Management Instrumentation code to make table row removal through
SNMP working again. Wrong method (instumClone) was probed at terminal
MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06

- SECURITY FIX: USM subsystem did not verify securityLevel of a request
to an authoritative SNMP engine against auth/priv protocols
configured for the user in question. That allowed unauthenticated/unciphered
access to pysnmp-based Agent even if USM user is configured to provide one.
- Oneliner [Asyn]CommandGenerator now supports optional keyword args
lookupNames, lookupValues that enable response OID / value looked up at

MIB and reported as a MibVariable container object carrying relevant
MIB info.
- Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be
passed within a MibVariable container object which would do a deferred
MIB lookup for name resolution. This is a new and preferred API which
obsoletes the tuple-based one (it is still suppored though).
- Oneliner CommandGenerator's class attributes lexicographicMode, maxRows
and ignoreNonIncreasingOid moved to optional keyword args of nextGen()
and bulkGen() methods.
- IPv6/UDP and Local Domain Socket transport interfaces added to the
oneliner API.
- Mib Instrumentation subsystem re-worked to replace excessive
MibNode's smiCreate()/smiWrite()/smiDestroy() methods with
MibScalarInstance's getValue()/setValue()
- MibTree.readTest[Get]Next() reworked to be called uniformely so
user could tap on these methods at any level of the MIB tree.
- MibTableColumn.getNextNodeWithValue() unpublished API method obsoleted
and removed for clarity.
- Hex dumps of binary parts of the protocol added to ease system
operations analysis.
- SnmpEngineId autogeneration does not call DNS resolver but uses
local hostname not to depend upon local IP availability and performance.
- Example apps reworked, additional SNMPv3 auth/priv protocols and transports
added.
- Package version is now available as __init__.__version__ and it is
in-sync with distutils.
- Package meta-information updated.
- The __init__.py's made non-empty (rumors are that they may be optimized
out by package managers).
- Multiple fixes to UNIX domain socket transport to make it fully
operational again.
- Use sysUpTime value whenever it is included in Notification PDU, otheriwese
resort to SNMP engine uptime reading.
- SNMPv2c Message is now defined in rfc1901.py what matches standard
definition.
- Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py)
moved to module scope to become accessible by wrapper routines
(v1.py/v2c.py). This is used for setting strictly typed default values
to corresponding SNMP data structures.
- The obsolete and unpublished MibInstrumController.readVarsFast() method
removed for API clarity.
- MibBuilder now distinguishes case of MIB modules filenames even if
underlying OS does not.
- LCD configuration caching is implemented at pysnmp.entity.rfc3413.config
that improves performance of repetitive calls by 10% and might hugely
improve NotificationOriginator's performance when working on a large
number of targets.
- A caching maps implemented at rfc2576 subsystem to speed-up communityName

to/from securityName resolution. The also makes transport tags processing
better compliant to the standard.
- Community and Transport tags processing changed at the oneliner interface
to make the whole mechanism more compliant with the standard. Most
importantly, it is now possible to tag authentication and transport
information separately.
- The NoSuchInstanceError exception class is no more inherits from
NoSuchObjectError to make class hierarchy closer to SNMP specification
which states that these errors are separate and independent.
- The Next & BulkCommandGenerator's split onto single-run and iterative
impementations. 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.
- Oneliner UsmUserData, UdpTransportTarget, Udp6TransportTarget instances
are not hashable anymore as they are intended to act more like a data
structure than object.
- Built-in debugger now supports negating debugging categories.
- An async/getgen.py example script added.
- Fix to MIB data reading routine to make it working with possible
Windows end-of-line's.
- Fix to CommandGenerator's SNMPv3 engine autodiscovery algorithm
when retryCount is administratively set to 0.
- Fix to Notification Originator to make it communicating a single
sendPduHandle to an application even when multiple INFORMs are triggered
and processed by a single call by way of transport tagging feature.
- Fix to rfc2576:processIncomingMessage() to take SecurityModel into account
when lookup up SecurityName by CommunityName. This allows mixed SNMPv1/v2c
communication with the same target.
- Fix to internal MessageProcessing and SecurityModel timers so they become
dependant on system timer resolution.
- Fix to v1.PDUAPI.setDefaults() method that used to set wrongly typed
time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst
running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT
OIDs calculation.
- Fix to MibTree class to properly report noSuchObject & noSuchInstance
SNMP special values.
- Fix to libsmi2pysnmp tool to make it working again in Python < 2.7
- Fix to exception handling at decodeMessageVersion() caller to prevent
ASN.1 parsing errors crashing the whole app.

- Fix to GenericTrap type processing at rfc2576:v1Tov2c() which used to
 crash the whole SNMP engine.
- Fix to [possibly uninizilaized] pyasn1 objects printouts at
 MibInstrumController.__indexMib()
- Fix to maxSizeResponseScopedPDU calculation at rfc3414/service.py.
- Dedicated 'withmib' example set is obsolete and removed.
- Another SNMP proxy example app added (1to3.py).
- Fix to MIB modules loading code to make it using __import__() properly.
 This also makes pysnmp working again with Python 3.3rc0.
- Typo fix to snmpInASNParseErrs MIB instance object.
- Typo fix to errind.EngineIdMismatch class and its instance.

Revision 4.2.2, released 2012-04-21

- Oneliner CommandGenerator can now limit the number of SNMP table
 rows returned by nextCmd()/bulkCmd() methods.
- Oneliner CommunityData configuration object can now be initialized
 with community name only, security name will be chosen automatically.
- Oneliner LCD configuration routines reworked towards clarity. The
 side-effect of this change is that repetitive oneliner call with the same
 securityName and different configuration options will only honor
 the first settings. Previous implementation would override older settings.
- Transport dispatcher now provides its own time expressed in
 fractions of second. SNMP engine uses this notion of time for
 handling requests timeout to make packet flow time bound
 to async I/O core operations rather than to real time.
- The libsmi2pysnmp tool improved to handle incomplete SMI v1->v2
 conversion performed by smidump. The remaining core SMIv1 modules
 excluded from the core MIB set.
- The pyasn1 constraint and enumeration objects put into ASN1-*
 MIB modules what appears to be more in-line with SMI. Existing
 MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIv1 MIB modules (including RFC1155 and RFC1213) were moved to
 pysnmp-mibs as pysnmp is SMIv2-based.
- The MibBuilder.importSymbols() now takes optional kwargs and
 push them into MIB modules globals(). This is to facilitate
 passing user infomation, such as DB connection handler, to MIB
 module namespace so it could be used by ManagedObjects implementations.
- When running on Python3, SMI will re-raise exceptions with the original
 traceback for easier diagnostics.
- Out of PYTHONPATH MIB paths now supported.
- Added pyasn1 decoder failures diagnistics 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.
- Exlicit 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

- 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 overhawl 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

- 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 disticts search paths on each loadModules() call.
- Fix to AsynsockDispatcher.runDispatcher() to make use of optional non-default select() timeout value.
- AbstractTransportDispatcher now allows user application registering multiple timer callbacks each with dedicated call period.
- Asynsock mainloop default idle period reduced to 0.5 sec for better timer resolution.
- Fix to SNMPv1->SNMPv2c error status handling at proxy module. This defect may have caused an infinite loop on a multiple var-bind SNMPv1 GetNext operation.
- Fix to contextName processing at config.addV1System -- typo rendered passed contextName not committed into LCD.
- Fix to unknown ContextName exception handling at CommandResponder App.
- config.addVacmUser() now accepts an optional contextName what makes it usable for configuring multiple contextName-bound bases of Managed Objects to SnmpEngine.
- MP pending states cache management re-worked so that SNMP engine will now handle an unlimited number of pending request/responses.
- Fix to SNMP discovery procedure: include ContentName in SNMP discovery messaging.
- Many fixes to AES crypto code that makes it actually working.
- Fix to SNMPv2-SMI createUndo operations.

- Fix to INFORM sending error handling at oneliner.
- Fix to mismatched response PDU handling at CommandGenerator application.
- Debug category 'app' (for Application) added to facilitate
 Standard SNMP Applications debugging.
- The retryCount semantic of CommandGenerator application changed to include
 sole retries and do not include initial request. Thus, retryCount=1 will
 now send up to two packets, not just one as it used to be.
- Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09

- 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 imcoming message filtering
 implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03

- 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

- Twisted integration implemented.
- Attempt to use hashlib whenever available.
- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details
 (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code
 in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP_MODULE_ID, Groups and Notifications in
 libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple
 requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.

- Fix to pending inform request data caching in mpmod/rfc2576.py -- previous code led to cache data corruption on multple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured entries and raise an exception.
- Allow multuple 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

- 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

- 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/delVacmUser() to let notifications
and requests to co-exist for the same user.
- At oneliners, build LCD tables keys from a hashed mix of input parameters
to make sure these automatic entries won't interfere or exceed constraints
on keys values.
- Made use of notificationType parameter of the sendNotification method
in NotificationOriginator applications. This parameter used to be
ignored in the past. Note, that previously used (and ignored) syntax
has been changed in an incompatible way.
- Allow plain Python values in setCmd() and sendNotification()
methods in CommandGenerator and NotificationOriginator applications
respectively.

- Multi-target oneliner API-based example script added.
- Ignore more socket errors in datagram-type async socket code.
- AES cipher now supported (rfc3826).
- Fix to messed up tagIDs of noSuchInstance and noSuchObject types.
- SET Command Responder fixed to obscure access to non-existing variables
 by returning notWritable error (SF bug #1764839).
- AsynsockDispatcher.setSocketMap() method added to facilitate pysnmp
 transport integration into third-party asyncore-based applications.
- Fix to errorIndex generation at CommandResponder application, the value
 should be a one-based.

Revision 4.1.7a, released 2007-02-19

- 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

- 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 descripting 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

- 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

- Adopted to slightly changed asyncore API (as shipped with python 2,4)

Revision 4.0.1a, released 2004-11-18

- Minor bug/typo fixes, mostly in example/ scripts.

Revision 4.0.0a, released 2004-11-15

- UNSTABLE EARLY ALPHA RELEASE.
- Major re-design and re-implementation.
- Rudimental API versioning implemented to let incompatible package
 branches to co-exist within the same Python installation.
- SMI framework designed and implemented. This framework provides
 1) various access to MIB data 2) a way to implement custom MIB
 instrumentation objects. There's also a tool for building SMI classes
 from libsmi(3) output (smidump -f python).
- ASN.1 subtyping machinery implemented. Now dynamic ASN.1 instances
 subtyping and quering becomes available. Previously, this has been done
 through Python classes inheritance what proved to be a wrong concept.
- ASN.1 codecs framework re-designed and re-implemented aimed at a more
 consistent design and better performance. Highlights include abstract
 codec interface and serialized data caching (at encoder).
- Asn1Item constraints machinery re-implemented based on Mike C. Fletcher's
 design and code. Now various constrains are implemented as stand-alone
 objects serving interested Asn1Object derivatives through some abstract
 protocol (that's probably the Decorator design pattern).
- ASN.1 tagging facility re-implemented along the client-server design
 pattern. Besides this seems to be a more appropriate design, it allows
 an easier way for dynamic subtyping.

Found in path(s):
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No license file was found, but licenses were detected in source scan.

License: http://snmplabs.com/pysnmp/license.html

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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-MPD-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/transport.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/TRANSPORT-ADDRESS-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/PYSNMP-SOURCE-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-COMMUNITY-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-VIEW-BASED-ACM-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/rfc3413/ntforg.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncio/__init__.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMPv2-TC.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/ntforg.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/error.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/PYSNMP-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1155.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/twisted/cmdgen.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/mpmod/cache.py

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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/sync/cmdgen.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc1905.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMPv2-TM.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1-REFINEMENT.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/proxy/rfc2576.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/lcd.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/sync/compat/ntforg.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/dgram/unix.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/cache.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-USER-BASED-SM-3DES-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/exval.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/instances/__SNMP-FRAMEWORK-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc2576.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/priv/base.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/secmod/rfc3414/priv/des.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncore/sync/__init__.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/INET-ADDRESS-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncore/dgram/base.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/base.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/twisted/dgram/base.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncio/ntforg.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/PYSNMP-USM-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/entity/engine.py
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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>
License: BSD
Description:

SNMP v1/v2c/v3 engine and Standard Applications suite written in pure-Python.
Supports Manager/Agent/Proxy roles, Manager/Agent-side MIBs, asynchronous
operation and multiple network transports.

Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
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Classifier: Programming Language :: Python :: 2.6
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncio/dispatch.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncio/dgram/base.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/asyncio/cmdgen.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/twisted/base.py

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Reusable Gold Testing System
https://bitbucket.org/dragon512/reusable-gold-testing-system
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yaml-cpp: A YAML parser and emitter in C++
https://github.com/jbeder/yaml-cpp

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

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1.197 python-pathlib2 2.3.5

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Metadata-Version: 1.1
Name: pathlib2
Version: 2.3.5
Summary: Object-oriented filesystem paths
Home-page: https://github.com/mcmtroffaes/pathlib2
Author: Matthias C. M. Troffaes

Author-email: matthias.troffaes@gmail.com
License: MIT
Description: The `old pathlib <https://bitbucket.org/pitrou/pathlib>`_
module on bitbucket is in bugfix-only mode.
The goal of pathlib2 is to provide a backport of
`standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_
module which tracks the standard library module,
so all the newest features of the standard pathlib can be
used also on older Python versions.

Download

Standalone releases are available on PyPI:
http://pypi.python.org/pypi/pathlib2/

Development

The main development takes place in the Python standard library: see
the `Python developer's guide <http://docs.python.org/devguide/>`_.
In particular, new features should be submitted to the
`Python bug tracker <http://bugs.python.org/>`_.

Issues that occur in this backport, but that do not occur not in the
standard Python pathlib module can be submitted on
the `pathlib2 bug tracker <https://github.com/mcmtroffaes/pathlib2/issues>`_.

Documentation

Refer to the
`standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_
documentation.

Known Issues

For historic reasons, pathlib2 still uses bytes to represent file paths internally.
Unfortunately, on Windows with Python 2.7, the file system encoder (``mcbs``)
has only poor support for non-ascii characters,
and can silently replace non-ascii characters without warning.
For example, ``u".encode(sys.getfilesystemencoding())`` results in ``????``
which is obviously completely useless.

Therefore, on Windows with Python 2.7, until this problem is fixed upstream,
unfortunately you cannot rely on pathlib2 to support the full unicode range for filenames.
See `issue #56 <https://github.com/mcmtroffaes/pathlib2/issues/56>`_ for more details.

.. |travis| image:: https://travis-ci.org/mcmtroffaes/pathlib2.png?branch=develop
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Platform: UNKNOWN
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
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Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: System :: Filesystems

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* /opt/cola/permits/1265273606_1643894388.87/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/tests/test_pathlib2.py

1.198 ip-address 1.0.23-1.ph4

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1.199 python-tubes 0.2.0

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1.200 libmnl 1.0.4

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1.201 diffutils 3.7

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1.202 pciutils 3.7.0

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1.205 cyrus-sasl 2.1.27

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
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Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
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Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen

Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
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Holloway, Nick
Hoover, Adam
Hunter, Michael T.
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Irrgang, Eric
Jackson, Brian
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Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
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Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
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Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin

Meskes, Michael
Michael, David
Miller, Todd C.
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Moffat, Darren
Moldung, Jan Thomas
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Nikitser, Peter A.
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Paquet, Eric
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Percival, Ted
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Pickett, Joel
Plotnick, Alex
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Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
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Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
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Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc

Smith, Andy
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Stier, Matthew
Stoeckmann, Tobias
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Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
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Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
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Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
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Casagrande, Milo
Castro, Felipe
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Fontenelle, Rafael
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Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
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Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent

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1.207 libevent 2.1.10

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1.208 open-ldap 2.4.59

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License
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ASN.1 library for Python
========================

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

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

What is ASN.1

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

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

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

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

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

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

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

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)

* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

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

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

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
  :maxdepth: 2

  /download

Changes

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

.. toctree::
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/changelog

License

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

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/license

Getting help

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

Books on ASN.1

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

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

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

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

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

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

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

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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)
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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
[![GitHub license](https://img.shields.io/badge/license-BSD-
blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
---

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

Why using pyasn1

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

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

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

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

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
        'room', Integer().subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
     ),
     DefaultedNamedType(
        'house', Integer(0).subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

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

```python
>>> record = Record()
>>> record['id'] = 123
```

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

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

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

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

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

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

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
```

{'id': 123, 'room': 321, 'house': 0}
```

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

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

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

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

How to get pyasn1

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

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

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

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* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/type/opentype.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/tests/compat/__main__.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/type/univ.py
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* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/compat/dateandtime.py

1.218 php 7.4.21

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

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

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

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

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

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

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1.223 collectd 5.12.0

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1.224 tar 1.34

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1.226 python-dbus 1.2.16

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1.229 coreutils 8.32

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1.231 dns-python 1.16.0

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file (certdata.txt). This file can be found in the mozilla source tree:
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1.234 inotify-tools 3.20.11.0

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(For example, a function in a library to compute square roots has

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