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1.2 apr-util 1.6.1

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1.3 pam 1.3.1

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1.4 bzip2 1.0.8

1.5 dmidecode 3.3

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1.6 net-tools 1.60

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```

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1.7 unzip 60

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5.42, the complete

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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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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
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1.8 vlan 1.9

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

^L

GNU LESSER GENERAL PUBLIC LICENSE

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

3. You may opt to apply the terms

of the ordinary GNU General Public

License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the

complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

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

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

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

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

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

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

^L

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

^L

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

^L

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To apply these terms, attach the following notices to the library.

It is safest to attach them to the start of each source

file to most

effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

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

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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

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

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

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

Re: [Cracklib-devel] cracklib license

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

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

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

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

UMR Information Technology Fax: (573) 341-4216

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

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

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

> Mike Frysinger

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

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

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

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

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

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

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

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

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...

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

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike 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
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
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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.
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> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

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

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

> > by me.

>

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

>

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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

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

>>

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

>>

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

>

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

>

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

the library under a later version of the

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

>

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

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

-mike

Re: [Cracklib-devel] cracklib license

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

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

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

yes. go for it. thanks++

-a

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

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

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

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

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

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

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

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

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623
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

1.11 mod-authnz-external 3.3.3

1.11.1 Available under license :

mod_authnz_external is based on code from the following sources:

* Original author: Nathan Neulinger (nneul@umr.edu)

* Based on code from The Apache Group

* Previous maintainers:

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Jan Wolter (unixpapa.com)

* Past contributors (from CHANGES):

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David Homborg
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1.12 zope-deprecation 4.4.0

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1.13 importlib-metadata 1.5.0

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1.14 dns-python 1.16.0

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1.15 automat 20.2.0

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1.16 python-setuptools 46.1.3

1.16.1 Available under license :

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1.17 pyrsistent 0.16.0

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1.18 sed 4.8

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

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

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 and PCI-bus devices
 4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood
 <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
 5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
 6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
 7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT
 port. Clean up recvbuf and iosignal code into separate modules.
 8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
 9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,
 Trimble PARSE support
 10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete
 broadcast and crypto features
- in sntp
11. [12]Jean-Francois Boudreault
 <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
 12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
 13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
 14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help

- with target configuration
- 15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
 - 16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
 - 17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
 - 18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
 - 19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
 - 20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
 - 21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
 - 22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
 - 23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
 - 24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
 - 25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
 - 26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpswEEP
 - 27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
 - 28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
 - 29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snTP to comply with NTPv4 specification, ntpq saveconfig
 - 30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HP-UX modifications
 - 31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
 - 32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
 - 33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
 - 34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
 - 35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
 - 36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
 - 37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
 - 38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
 - 39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
 - 40. [43]Tom Moore <tmoore@fivel.daytonoh.ncr.com> i386 svr4 port
 - 41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
 - 42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
 - 43. [47]Rob Neal <neal@ntp.org> Bancomm refclock

and config/parse code

maintenance

- 44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling
 - 45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
 - 46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
 - 47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
 - 48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
space on the stuff in the html/pic/ subdirectory
 - 49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
 - 50. [54]Michael Shields <shields@tembel.org> USNO clock driver
 - 51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 - 52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
 - 53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
 - 54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
 - 55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK
clock driver
 - 56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase,
Solaris issues
 - 57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing
(libseccomp) support
 - 58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
TrueTime clock driver
 - 59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
validated HTML documents according to the HTML DTD
-

References

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1.21 enum34 1.1.10

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1.24 popt 1.18

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1.25 python3-asn1crypto 1.4.0

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1.27 python-pathlib 1.0.1

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@var{one line to give the library's name and an idea of what it does.}

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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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

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

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1.31 appdirs 1.4.4

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1.32 functools32 3.2.3-2

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011		
PSF	yes			
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes

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1.33 suds 0.4

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1.36 python-ujson 2.0.3

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)

<https://github.com/client9/stringencoders>

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

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1.42 fail2ban 0.8.14

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This is
free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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mouse-clicks or menu items--whatever suits your program.

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necessary. Here is a sample; alter the names:

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

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.43 iana-etc 2.30

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1.44 pam-ldap 186

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1.48 pciutils 3.7.0

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1.50 rsync 3.2.3

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1.51 coverage 5.5

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1.55 zope-interface 5.4.0

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1.56 openssl 1.0.2y

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1.57 incremental 21.3.0

1.57.1 Available under license :

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1.58 click 7.1.2

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

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* /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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1.59 requests-toolbelt 0.9.1

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1.60 mock 1.0.1

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1.61 typing 3.10.0.0

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

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

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF	yes	

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1.70 ndg-httpsclient 0.5.1-4.ph4

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1.71 constantly 15.1.0-3.ph4

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1.74 jwcrypto 0.9.1

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1.75 libpcap 1.10.1

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1.76 parsedatetime 2.6

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 */
```

1.78 tcpdump 4.99.1

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# -*- perl -*-

$testlist = [
    # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
    # which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.
    {
        config_unset => 'HAVE_NET_IF_PFLOG_H',
        name => 'heap-overflow-1',
        input => 'heap-overflow-1.pcap',
    }
]
```



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

```
1;
```

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1.79 dbus-glib 0.112

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1.81 kmod 29

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Any executables

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<signature of Ty Coon>, 1 April 1989
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1.82 pcre 8.45

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1.83 distro 1.6.0

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1.85 zope-hookable 5.1.0

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1.86 procps 3.3.17

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

Library into a program that is not a library.

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

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

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

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

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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

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

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

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

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

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

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

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

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

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The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of

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3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
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Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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Version 2, June 1991

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

Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free

software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

In addition,

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

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

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

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

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

@c man end

@c man begin COPYRIGHT

Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

@appendix GNU GENERAL PUBLIC LICENSE

@c The GNU General Public License.

@center Version 3, 29 June 2007

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@display

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To protect your rights, we need to prevent others from denying you these rights

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for

individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary.

To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

@heading TERMS AND CONDITIONS

@enumerate 0

@item Definitions.

``This License" refers to version 3 of the GNU General Public License.

``Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you". ``Licensees" and ``recipients" may be individuals or organizations.

To ``modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version" of the earlier work or a work ``based on" the earlier work.

A ``covered work" means either the unmodified Program or a work based on the Program.

To ``propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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1.88 zope-component 5.0.1

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1.91 deprecated 1.2.13

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* /opt/cola/permits/1201203897_1631116519.19/0/deprecated-1-2-13-tar-gz/Deprecated-1.2.13/Deprecated.egg-info/PKG-INFO

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%global srcname Deprecated

%global pkgname deprecated

Name: python-%{pkgname}

Version: 1.2.13

Release: 1%{?dist}

Summary: Python decorator to deprecate old python classes, functions or methods

License: MIT

URL: <https://github.com/tantale/%{pkgname}>

Source0: %{pypi_source}

BuildArch: noarch

%description

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

%package -n python3-%{pkgname}

Summary: %{summary}

BuildRequires: python3-devel

BuildRequires: python3-setuptools

%{?python_provide:%python_provide python3-%{pkgname}}

%description -n python3-%{pkgname}

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

%prep

%autosetup -n %{srcname}-%{version}

rm -rf %{pkgname}.egg-info

%build

%py3_build

%install

%py3_install

%files -n python3-%{pkgname}

%license LICENSE.rst

%doc README.md

%{python3_sitelib}/%{pkgname}/

%{python3_sitelib}/%{srcname}-%*.egg-info/

%changelog

*

Fri Jul 26 2019 Petr Hracek <phracek@redhat.com> - 1.2.6-2

- Fix python3_sitelib issue

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

- Initial package

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* /opt/cola/permits/1201203897_1631116519.19/0/deprecated-1-2-13-tar-gz/Deprecated-1.2.13/python-deprecated.spec

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- * Showing empathy towards other community members

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- * Public or private harassment

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1.92 dnsmasq 2.86

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.93 pyopenssl 21.0.0

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1.94 pytz 2021.3

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1.95 python-certifi 2021.10.8

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

1.96 acpid 2.0.33

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1.98 sshpass 1.09

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1.100 grep 3.7

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1.101 eudev 3.2.10

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1.102 megactl 0.4.1

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1.108 stringencoders 3.10.3

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1.109 ncurses 6.2-20210626

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1.110 c-ares 1.18.1

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1.114 jsonschema 3.2.0

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1.116 pyratemp 0.3.2

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1.117 service-identity 18.1.0-1.ph3

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1.119 python-requests 2.27.1

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1.120 boost 1.78.0

1.120.1 Available under license :

```
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 *
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 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE\_1\_0.txt)
 *
 * This file implements the bcp_implementation virtuals.
 */
```

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1.121 pyasn1 0.4.8

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.. _license:

License

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ASN.1 library for Python

=====

.. toctree::

:maxdepth: 1

Abstract Syntax Notation One (ASN.1

<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1>) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

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

What is ASN.1

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

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

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

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol->

buffers/>`_

or FlatBuffers <<https://google.github.io/flatbuffers/>>`, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

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

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

ASN.1 applications

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

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

ASN.1 gotchas

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

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

Documentation

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

/pyasn1/contents

Use case

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

/example-use-case

Download & Install

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

/download

Changes

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

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

/changelog

License

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

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


/license

Getting help

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

Books on ASN.1

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

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

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

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

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

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

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

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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)

[![Coverage 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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```



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* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
```



```

70c1bbd/tests/codec/native/__main__.py
*
/opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/type/constraint.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/type/useful.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/type/tag.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/type/namedtype.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/codec/der/decoder.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/compat/calling.py
*
/opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/codec/ber/encoder.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/setup.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/tests/base.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/tests/codec/ber/__main__.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/tests/codec/native/test_encoder.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/compat/octets.py
*
/opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/compat/string.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/tests/type/test_univ.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/compat/binary.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/tests/type/__main__.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/tests/compat/test_integer.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/pyasn1/type/tagmap.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-
70c1bbd/tests/codec/cer/test_decoder.py

```



```

* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/tests/type/test_useful.py
*
/opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/tests/__main__.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/error.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/codec/der/encoder.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/type/error.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/tests/codec/__main__.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/tests/codec/cer/test_encoder.py
* /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
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/tests/type/test_char.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/tests/compat/test_binary.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/type/namedval.py
* /opt/cola/permits/1265256035_1643889716.64/0/etingof-pyasn1-v0-4-8-0-g70c1bbd-tar-gz/etingof-pyasn1-70c1bbd/pyasn1/compat/dateandtime.py

```

# 1.122 pyyaml 5.4.1

## 1.122.1 Available under license :

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## 1.123 pyasn1-modules 0.2.8

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## 1.124 subprocess32 3.5.4

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A. HISTORY OF THE SOFTWARE

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

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

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

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |



|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4   | 2.3   | 2004 | PSF | yes |
| 2.4.1 | 2.4   | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1   | 2010 | PSF | yes |

#### Footnotes:

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GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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

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# 1.125 idna 2.10

## 1.125.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1265256002_1643889721.05/0/kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/LICENSE.rst
```

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

```
"""
```

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

```

## 1.126 python-configparser 4.0.2

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## 1.127 libstatsd-cpp 0.0



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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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



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| 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                 |
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| 2.6.3   | 2.6.2        | 2009 | PSF   | yes                 |
| 2.6.4   | 2.6.3        | 2009 | PSF   | yes                 |
| 2.6.5   | 2.6.4        | 2010 | PSF   | yes                 |
| 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                 |
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## 1.133 python-klein 20.6.0

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## 1.134 python-mox 0.5.3

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# 1.135 python-pycrypto 2.7a1

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~~~~~

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Additionally, some files within PyCrypto had specified their own



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

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

## 1.136 python-netifaces 0.11.0

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```
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/twisted/dispatch.py
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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/pysnmp/carrier/asyncio/dgram/udp.py
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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/asyncio/base.py
*
```

```
/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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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



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

#### PySNMP library

+++++

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

**\*\*Done:\*\*** see `PySMI project <<http://snmplabs.com/pysmi/>>` in conjunction with the latest PySNMP codebase.

#. Reverse MIB index. The variable-bindings received by the system whilst in Manager role could be post-processed using the information kept in MIB files to include human-friendly OIDs names, tables indices and values representation. However, there is currently no provisioning in the PySNMP system for locating and loading up MIB files containing additional information on arbitrary OIDs. So the idea is to maintain an OID-to-MIB index to let PySNMP load relevant MIB automatically on demand.

#. Stream sockets support. Currently, PySNMP transport subsystem only supports datagram-type network sockets. That covers UDP-over-IPv4 and UDP-over-IPv6. However, SNMP engine can potentially run over stream-oriented protocols what would let it support TCP-over-IPv4, TCP-over-IPv6 and SSL/TSL transports. Neither of these is currently implemented with PySNMP.

#. AgentX implementation. We anticipate many uses of this. For instance, having AgentX protocol support in pure-Python would let us write AgentX modules in pure-Python and attach them to high-performance Net-SNMP Agent. Or we could build and maintain a fully-featured, stand-alone PySNMP-based Agent so that users would write their own AgentX extensions what would comprise a complete SNMP Agent solution at lesser effort.



#. A DBMS-based SMI. Currently implemented SMI takes shape of live Python objects that let user hook up his own handler on any existing Managed Object Instance. That's flexible and working approach in many cases, however sometimes, for instance when Management Instrumentation is inherently DBMS-based, it may be more efficient to move the entire SMI/MIB subsystem into a database. PySNMP engine would talk to it through its simple and well defined SMI API.

#### Stand-alone PySNMP-based tools

+++++

#. SNMP Proxy Forwarder. That would be a stand-alone, application-level proxy service supporting all SNMP versions, multiple network transports, Command and Notification SNMP message types. Its anticipated features include extensive configuration facilities, fine-grained access control and logging.

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

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

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

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

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

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

Contributions to the PySNMP source code is greatly appreciated as well.



We require contributed code to run  
with Python 2.4 through the latest  
Python version (which is 3.7 at the time of this writing). Contributed  
code will be redistributed under the terms of the same  
`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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* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/ASN1-
ENUMERATION.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/entity/rfc3413/oneliner/cmdgen.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/cache.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/api/v1.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc3414/priv/nopriv.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/proto/rfc3411.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-
FRAMEWORK-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asynsock/dgram/udp6.py
*
/opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc3414/auth/hmacmd5.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/asyncore/transport.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc3826/priv/aes.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/asyncore/__init__.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/eso/priv/aes192.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/api/verdec.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncore/base.py

```



```

* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/rfc3414/localkey.py
*
/opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/error.py
* /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
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/instances/__SNMP-USER-BASED-SM-MIB.py
* /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
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/secmod/eso/priv/aesbase.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/instances/__SNMP-TARGET-MIB.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/smi/mibs/SNMP-
NOTIFICATION-MIB.py
*
/opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/asyncore/sync/compat/ntforg.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/carrier/sockfix.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/carrier/asyncore/dgram/unix.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/proto/mpmod/rfc2576.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/hlapi/asyncore/cmdgen.py
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp/hlapi/auth.py
* /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
* /opt/cola/permits/1265274042_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-
4.4.12/pysnmp/smi/mibs/ASN1.py
* /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

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

Metadata-Version: 1.2

Name: pysnmp

Version: 4.4.12

Summary: SNMP library for Python

Home-page: <https://github.com/etingof/pysnmp>

Author: Ilya Etingof

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

Maintainer: Ilya Etingof <[etingof@gmail.com](mailto:etingof@gmail.com)>

License: BSD

Description:

SNMP v1/v2c/v3 engine and Standard Applications suite written in pure-Python.

Supports Manager/Agent/Proxy roles, Manager/Agent-side MIBs, asynchronous operation and multiple network transports.

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience :: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier:

Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier: Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3



Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Topic :: Communications  
Classifier: Topic :: System :: Monitoring  
Classifier: Topic :: System :: Networking :: Monitoring  
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/PKG-INFO  
\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/pysnmp.egg-info/PKG-INFO

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

Revision 4.4.12, released 2019-09-24

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- Fixed broken SNMPv3 `msgFlag` initialization on authoritative SNMP engine ID discovery. This bug causes secure communication with peer SNMP engines to stall at SNMP engine ID discovery procedure.

Revision 4.4.11, released 2019-08-10

-----

- Added SNMPv3 USM master and localized keys support to LCD configuration
- Improved initial and runtime USM debugging
- Fixed a bug in USM configuration which did not allow the same user names to be added under different security names

Revision 4.4.10, released 2019-07-29

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- Reworked VACM access control function. Most important changes include:

- \* Added subtree match negation support (vacmViewTreeFamilyType)
- \* Added subtree family mask support (vacmViewTreeFamilyMask)
- \* Added prefix content name matching support (vacmAccessContextMatch)
- \* Added key VACM tables caching for better `isAccessAllowed` lookup performance

One potential incompatibility may be caused by the `addContext()` call which now needs to be made explicitly during low-level VACM configuration rather than be a side effect of `addVacmAccess()` call.

- Rebased MIB importing code onto `importlib` because `imp` is long deprecated
- Received MIB objects resolution made more forgiving to errors, added



optional ``ignoreErrors`` parameter to ``ObjectType.resolveWithMib()`` to control that behaviour.

- Fixed asyncore main loop to respect non-default timer resolution
- Fixed ``setTimerResolution()`` behaviour of abstract main loop dispatcher to update call intervals of the existing periodic dispatcher jobs
- Fixed ``var-bindings`` initialization to prevent pyasn1 encoder failures with newer pyasn1 versions where ``SequenceOf`` type loses its default initializer.
- Fixed crash on uninitialized component serialization left out in SNMP v1 TRAP PDU to SNMPv2/3 TRAP PDU proxy translation routine.

Revision 4.4.9, released 2019-02-09

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- Made MIB loader ignoring file and directory access errors
- Added missing SNMP PDU error classes and their handling in Command Responder
- Fixed crash on MIB load failure in case of directory access error
- Fixed socket transparency option (IPV6\_TRANSPARENT) to make IPv6 transparent operation functional

Revision 4.4.8, released 2018-12-30

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- Fixed Pythonized MIB load (in the source form) - made sure to turn it into a code object prior to its execution

Revision 4.4.7, released 2018-12-29

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- Copyright notice extended to the year 2019
- Exposed ASN.1 ``Null`` type through ``rfc1902`` module for convenience.
- Use ``compile()`` before ``exec``'ing MIB modules to attach filename to the stack frames (ultimately shown in traceback/debugger)
- Fixed hlapi/v3arch transport target caching to ensure transport targets are different even if just timeout/retries options differ
- Fixed hlapi LCD configurator to include ``contextName``. Prior to this fix sending SNMPv3 TRAP with non-default ``contextName`` would fail.
- Fixed possible duplicate key occurrence in the ``OrderedDict`` following a race condition
- Fixed undefined name references in ``inet_pton`/`inet_ntop`` substitute routines for IPv6 in ``TRANSPORT-ADDRESS-MIB.py``

Revision 4.4.6, released 2018-09-13

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- Improved package build and dependency tracking



- Fixed missing LICENSE from the tarball distribution
- Fixed `CommandGeneratorLcdConfigurator.unconfigure()` to fully clean up internal caches, otherwise repetitive attempts to configure the target would fail.
- Fix to tolerate possible duplicate enumerations in `Bits`` and `Integer`` SMI types.
- Fix to tolerate non-initialised entries in SNMP community table. Once a bad entry sneaked into the SNMP community table, all the subsequent SNMP v1/v2c operations failed. The fix ignores incomplete SNMP community table entries in the course of building indices.

Revision 4.4.5, released 2018-08-05

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- Added `PySnmpError.cause` attribute holding parent exception tuple
- Fixed broken `InetAddressType` rendering caused by a pyasn1 regression
- Fixed typo in RFC1158 module
- Fixed possible infinite loop in GETBULK response PDU builder
- Fixed memory leak in the `config.delContext()` VACM management harness
- Fixed `Bits`` class initialization when enumeration values are given
- Fixed crash caused by incoming SNMPv3 message requesting SNMPv1/v2c security model
- Fixed out-of-scope OIDs leaking at the end of SNMP table at `hlapi` `nextCmd`` and `bulkCmd`` calls when `lexicographicMode = False``

Revision 4.4.4, released 2018-01-03

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- Copyright notice extended to the year 2018
- Fixed short local key expansion at 3DES key localization implementation.

Revision  
4.4.3, released 2017-12-22

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- Migrated references from SourceForge
- Added missing SHA2 support for Blumenthal key localization
- Fixed named bits handling at `rfc1902.Bits`
- Fixed missing `SmiError` exception class at `pysnmp.proto.rfc1155`
- Fixed SNMP v1->v2c PDU proxy -- error-status & error-index fields from v1 PDU get copied over to v2c PDU in addition to the exception sentinels being set

Revision 4.4.2, released 2017-11-11

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- The pysnmp version being used gets exposed to the MIB modules via the `MibBuilder` instance
- The .setObjects() method of the SMI types now accepts `append=False` parameter to let the caller adding more than 255 elements over the course of multiple calls
- Added support for some more missing fields of SMIv2 MACRO types
- Example scripts rearranged in a way that IPv6 requirement is clearly encoded in the script's name
- Fixed SNMPv2-SMI.NotificationType to expose .set/getReference() instead of .set/getRevision() which should not be there in the first place
- Fixed non-implied-OID encoding in SNMP table indices
- Fixed inconsistent SNMPv3 discovery and retrying algorithm

Revision 4.4.1, released 2017-10-23

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- HMAC-SHA-2 Authentication Protocols support added (RFC-7860)
- The pycryptodome dependency replaced with pycryptodomex as it is recommended by the upstream to avoid unwanted interference with PyCrypto package should it also be installed
- Sphinx theme changed to Alabaster in the documentation
- Minor adjustments towards pyasn1 0.4.x compatibility
- Fixed ObjectIdentifier-into-ObjectIdentity casting at rfc1902.ObjectType MIB resolution harness
- Fixed NetworkAddress object handling in SNMP table indices
- Fixed MIB lookup by module:object.indices MIB object with InetAddressIPv{4,6} objects being in the index
- Fixed non-translated PDU being retries at CommandGenerator what leads to wrong PDU version being sent and even a crash on incompatible PDU/SNMP message combination

Revision 4.3.10, released 2017-10-06

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- Refactored partial SNMP message decoding to make it less dependent on unpublished pyasn1 API features.
- Fix to MibTableRow.setFromName() to keep the input parameter type when it propagates to the return value. Before this fix ObjectIdentity.prettyPrint() may crash when rendering malformed SNMP table indices.
- Fixed NotificationReceiver to include SNMPv1 TRAP Message community string into SNMPv2c/v3 TRAP PDU
- Fixed multiple bugs in SNMP table indices rendering, especially the InetAddressIPv6 type which was severely broken.
- Fixed crashing Bits.prettyPrint() implementation
- Fixed crashing Bits.clone()/subtype() implementation



- Fixed leaking exceptions bubbling up from the asyncio and Twisted adapters

Revision 4.3.9, released 2017-07-26

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- Deprecated UsmUserData initialization parameters removed
- Adapted to pyasn1 API changes introduced by release 0.3.1
- Fix to a crash happening on inbound SNMP message having non-initialized fields
- Fix to (persistent SNMP engine ID) file writing on Windows

Revision 4.3.8, released 2017-06-15

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- Security fix to the bug introduced in 4.3.6: msgAuthoritativeEngineTime stopped changing over time and was returning the same timestamp (process start time). This fix makes it growing as it should.

Revision 4.3.7, released 2017-05-29

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- \* Fixed import error in legacy NotificationOriginator implementation

Revision 4.3.6, released 2017-05-28

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- More instrumentation hooks added addressing security failures auditing needs.
- SNMP table indices correlation implemented within SMI framework. The opaque InetAddress type implemented. INET-ADDRESS-MIB included into the distribution.
- SNMP table indices resolution logic made more robust against malformed indices.
- Fixes to \*lexicographicMode\* option documentation to make it unambiguous.
- The `ErrorIndication` object is now derived from `Exception` so that it could be raised in exceptions.
- The `errorIndication` values produced by various parts of SNMP engine unified to be `ErrorIndication` instances. This fixes an issue with Twisted.
- Embedded MIB modules rebuilt with the latest pysmi adding previously missing attributes like `status`, `description` etc.
- Fixed potential SNMP engine crash on handling incoming message at unsupported security level

Revision 4.3.5, released 2017-03-24

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- The getNext() and getBulk() calls of Twisted interface.  
now support ignoreNonIncreasingOid option.
- TextualConvention is now a new-style class.
- Fix to accidentally reset error-status when building confirmed class  
SNMPv1 PDU.
- Fix to possible infinite recursion in TextualConvention.prettyIn().
- Fixed crash when attempting  
to report unsupported request/notification  
PDU back to sender.

Revision 4.3.4, released 2017-03-01

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- Fix to low-level SNMP API example to accommodate changed pyasn1  
SEQUENCE supporting iterator protocol.
- The pyasn1 version dependency bumped (0.2.3), SEQUENCE/SEQUENCE OF  
API calls adjusted to accommodate changed pyasn1 API (in part  
of .setComponentBy\*() kw flags).
- Fixed crash on SNMP engine's invalid message counter increment.

Revision 4.3.3, released 2017-02-04

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- Switched from now unmaintained PyCrypto to PyCryptodome.
- Switched to new-style classes.
- NotificationType now allows additional var-binds specified as  
MIB objects. A side effect of this change is that additional  
var-binds can only be added prior to .resolveMibObjects() is  
run.
- Non-standard (but apparently used by many vendors) Reeder AES192/256  
key localization algorithm implemented and set as default for  
usmAesCfb192Protocol  
and usmAesCfb256Protocol identifiers.  
Original and more standard implementation can still be used  
with the usmAesBlumenthalCfb192Protocol and  
usmAesBlumenthalCfb192Protocol IDs respectively.
- TextualConvention.prettyOut() improved to produce prettier and  
more SMI-compliant output.
- TextualConvention.prettyIn() implemented to handle DISPLAY-HINT  
based value parsing.
- Fix to NotificationType to make additional var-binds overriding  
MIB objects implicitly included through NOTIFICATION-TYPE OBJECTS.
- Fix to SNMP engine boots counter persistence on Python 3.
- Fix to Pythonized MIBs loading when only .pyc files are  
present (e.g. py2exe/cx\_freeze environments).
- Fix broken 3DES key localization and encryption procedures.
- Updated IP address for demo.snmplabs.com in examples.



- Missing index added to bundled RFC1213::atEntry MIB table.
  - Twisted integration made Python3 compatible.
  - Accommodated ASN.1 SEQUENCE iteration rules change in upcoming pyasn1 version.
  -
- Author's email changed, copyright extended to 2017.

Revision 4.3.2, released 2016-02-12

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- Copyright notice added to non-trivial source code files.
- SNMP table row consistency check added. This change may break valid SNMP SET operations on tables if RowStatus column is not passed at the very end of var-binds.
- All SNMP counters now incremented via '+=' 1' rather than 'x = x + 1' to simplify their tracking by third-party code.
- Notification originator examples re-pointed to Notification Receiver at demo.snmplabs.com.
- Two more execution observer points added: rfc2576.processIncomingMsg and rfc3414.processIncomingMsg to give an insight on security modules internals.
- TEXTUAL-CONVENTION's DISPLAY-HINT text formatting reworked for better performance and encoding accuracy of 'a' and 't' formats.
- WARNING: security fix to USM - extra user entry clone removed on incoming message processing. It made USM accepting SNMPv3 TRAPs from unknown SNMP engine IDs.
- Fix to snmpInvalidMsgs and snmpUnknownSecurityModels MIB symbols import at SNMPv3 MP model.
- Fix to NotificationOriginator to cope with unspecified user callable.
- Fix to OctetString.prettyOut() to pretty-print Python 3 bytes without 'b' qualifier.
- Fix to better pysmi import errors handling.
- Fix to missing next() in Python 2.5 at pysnmp.hlapi

Revision 4.3.1, released 2015-11-12

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- Added recursive resolution of ObjectIdentifier values at ObjectType by converting it to ObjectIdentity.
- A bunch of convenience shortcuts to rfc1902.ObjectIdentity added from rfc1902.ObjectType and rfc1902.NotificationType (.addAsn1MibSource(), .addMibSource(), .loadMibs())
- When pretty printing indices at rfc1902.ObjectType, quote only strings.
- SNMP overview and PySNMP hlapi tutorial added to documentation.
- Fix to \_\_doc\_\_ use in setup.py to make -O0 installation mode working.
- Fix to ObjectIdentity->ObjectIdentifier attributes handover
- Fixed crash at oneliner compatibility code on EOM response.



- Fixed crash in hlapi.transport module.
- Fixed OID resolution issues that roots at node 0 and 2.
- Fix to MIB builder to fail gracefully on corrupted MIB package encounter.
- Fix to docs distribution -- now they are Sphinx-buildable out-of-the-box.
- Source code re-linted

Revision 4.3.0, released 2015-09-28

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- Critical error fixed in key localization procedure for AES192/AES256/3DES cyphers. Previous versions might never worked properly in this respect.
- Initial PySMI integration. Original ASN.1 MIBs could now be parsed, stored at a local pysnmp MIBs repository and loaded into SNMP Engine. Relevant example scripts added. Obsolete libsmi-based scripts removed.
- Major rewrite of native SNMPv3 CommandGenerator and NotificationOriginator applications towards the following goals:

- \* avoid binding to specific SNMP engine instance to promote single SNMP app instance using many SNMP engine instances
- \* support two APIs for working with request data: one operates on the whole PDU object while the other on PDU contents
- \* keep callback context data in stack rather than in stateful application cache
- \* newly introduced sendVarBinds() method offers a more functional and logical signatures.
- \* Promote the use of dedicated classes for dealing with OID-value pairs. Instances of those classes resemble OBJECT-IDENTITY, OBJECT-TYPE and NOTIFICATION-TYPE MIB structures.
- \* Oneliner API reworked to become more generic: its LCD configuration shortcuts and 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 applications added.
- Example script on transport timeout & retries manipulation added.
- Example script explaining incoming message's communityName re-mapping added.
- Broadcast socket option can now be enabled with the .enableBroadcast() call for any datagram-based transport (namely, UDP and UDP6).
- AbstractTransportDispatcher's jobStarted() and jobFinished() methods now accept optional 'count' parameter which is a way for an app to indicate how many responses are expected or have been processed in bulk.
- Example script on SNMP Agents UDP broadcast-based discovery added.
- Oneliner transport object now supports setLocalAddress() method to force socket binding to specified local interface.
- New public DgramSocketTransport.getLocalAddress() returns local endpoint address underlying BSD socket is currently bound to.



- Passing request details to access control callback at CommandResponder reworked towards more robust and simple design with the execution observer facility.
- All MIBs rebuilt with pysmi.
- MIB instrumentation example improved to cover table index building facility.
- Handle the case of null writer at Debug printer.
- Do not cache snmpEngineId & snmpAdminString at CommandGenerator to let it be reused with many different snmpEngines.
- TRAP PDU agent address evaluation at proto.api made lazy to improve startup time.
- Multiple fixes to verify pyasn1 decoder.decode() return to withstand broken SNMP messages or its components.
- First attempt made to make some of SNMP Engine settings persistent across reboots.
- Make config.delTransport() returning detached transport object. Asyncio examples now use this facility to explicitly shutdown transport object.
- Parts of SMIV1 remnant MIBs (RFC1213-MIB, RFC1158-MIB) added to provide complete compatibility with SMIV1. Symbols defined in these MIBs only present in SMIV1 so they can't be substituted with their SMIV2 analogues.
- MibBuilder.addMibSources() convenience method added.
- The smi.MibBuilder() will now raise more specific exceptions (MibLoadError, MibNotFoundError) on MIB loading problems rather than more generic SmiError.
- The oneliner's MibVariable MIB lookup subsystem redesigned for more generality to mimic OBJECT-TYPE macro capabilities related to SNMP PDU handling. The two new classes are ObjectIdentity and ObjectType. The ObjectIdentity class additionally supports just a MIB module name initializer in which case it resolves into either first or last symbol in given MIB. Another option is just a MIB symbol initializer without specifying MIB module. This new subsystem is moved from the scope of oneliner to more common pysnmp.smi.rfc1903 scope to more naturally invoke it from whatever part of pysnmp requires MIB services.
- MibBuilder now prepends the contents of environment variables it recognizes (PYSNMP\_MIB\_DIR, PYSNMP\_MIB\_DIRS, PYSNMP\_MIB\_PKGS) rather than using them instead of its default core MIBs.
- Removed RowStatus default value as it may collide with possible subclass constraints.
- A few additional MIB tree management methods added to MibViewController to better address ordered nature of MIB tree nodes (namely, getFirst\*, getLast\* family of methods).
- Wheel distribution format now supported.
- Fix to authoritative engine side snmpEngineID discovery procedure: respond with notInTimeWindows rather than with unsupportedSecurityLevel at time synchronization



phase.

- Fix to rfc1902.Bits type to make it accepting hex and binary initializers, cope with missing bits identifiers at prettyPrint().
- Memory leak fixed in CommandForwarder examples.
- Fix to BULK CommandGenerator to use the same nonRepeaters OIDs across multiple GETBULK iterations so returned table for nonRepeaters columns would hold the same var-bind.
- Fix to CommandGenerator to make sendRequestHandle persistent across multiple iterations of GETNEXT/GETBULK queries.
- Fix to sendNotification() error handling at NotificationOriginator.
- Fix to preserve possible 'fixed length' setting at rfc1902.OctetString on clone()'ing and subtype()'ing.
- Fix to rfc1902.OctetString & Bits to base them on OctetString class to make the 'fixed length' property working.
- Fix to .clone() method of rfc1902.Bits class to make its signature matching the rest of classes. This may broke code which used to pass namedValue parameter positionally rather than binding it by name.
- 
- Fix to PDU translation service (proto.proxy.rfc2576) to make it initializing errorIndex & errorStatus components of the resulting PDU.
- Fix to MsgAndPduDispatcher.sendPdu() to clean up request queue on pysnmp-level processing failure.
- Fix to SNMPv1/v2c message processing subsystem to make it serving unique PDU request-id's in both outgoing and incoming confirmed and response PDU types. Duplicate request-id's in unrelated PDUs may cause cache errors otherwise.
- Fix to licensing terms of multiple twisted backend modules to make the whole pysnmp package licensed under BSD 2-Clause license. This change has been explicitly permitted by the original modules authors.
- Fix to asyncore-based transport not to use asyncore's cheap inheritance from socket object what caused warnings.
- Fix at NotificationOriginator to make is using MibInstrumentationController when expanding Notification OBJECTS into Managed Objects Instances.
- Missing wrongLength and wrongEncoding SMI errors added.
- Fix to file descriptor leak at MibBuilder.
- Fix to rfc2576.v2ToV1() to ignore impossible errorStatus.
- Fix to rfc2576.v1ToV2() to reset ErrorStatus==noSuchName on proxying.
- Fix to smi.builder to explicitly fail on any MIB file access error (but ENOENT) and raise IOError uniformly on any directory/egg access failure.
- Fix to infinite loop at config.delV3User().

Revision 4.2.5, released 2013-10-02

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- License updated to vanilla BSD 2-Clause to ease package use (<http://opensource.org/licenses/BSD-2-Clause>).



- A dozen of lightweight Twisted-based example scripts replaced more complex example implementations used previously.
- SNMP Proxy example apps separated into a larger set of more specialized ones.
- Most of Command Generator examples re-pointed to a live SNMP Agent at demo.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.
- AsyncCommandGenerator.makeReadVarBinds() generalized into a new makeVarBinds() method which replaces somewhat redundant code at setCmd() and AsyncNotificationOriginator.sendNotification().
- AsyncCommandGenerator.uncfgCmdGen() & AsyncNotificationOriginator.uncfgCmdGen() methods now accept optional authData parameter to remove specific entries from LCD. This can be useful for modifying security parameters for specific securityName.



- SNMP credentials management reworked to separate userName from securityName in snmpCommunityEntry and usmUserEntry tables. Changes made to addV1System(), addV3User() functions as well as to their oneliner's wrappers.
- The contextEngineId parameter of config.addV3User() and auth.UsmUserData() renamed into securityEngineId as it's semantically correct
- Oneliner UsmUserData() and CommunityData() classes now support clone()'ing to facilitate authentication data management in user applications.
- Oneliner transport target classes now support the getTransportInfo() method that returns network addresses used on protocol level.
- Oneliner CommandGenerator.getNext() & .getBulk() methods now support the maxCalls kwarg to limit the maximum number of iterations to perform.
- The config.addSocketTransport() helper renamed into config.addTransport() and improved by automatically instantiating compatible TransportDispatcher making it dispatcher-agnostic. As an additional bonus, application may not call registerTransportDispatcher() as it would be called by addTransport().
- The SnmpV3MessageProcessingModel.getPeerEngineInfo() method is implemented to communicate discovered peer SNMP engine information to SNMP apps what can be used for fine usmUserTable configuration.
- AsynNotificationOriginator.cfgCmdGen() does not take into account securityModel & securityLevel when reducing LCD access via addTrapUser(). This improves LCD consistency on sparse add/del operations but also does not let you to configure different securityModels per securityname at VACM though the cfgCmdGen() wrapper.
- MIB builder traceback formatting and reporting improved.
- SNMP Engine object now has a snmpEngineID attribute exposed.
- Fix to inet\_ntop()/inet\_pton() support on Windows at TRANSPORT-ADDRESS-MIB.
- Fix to usmUserSecurityName table column implementation -- automatic value generation from index value removed.
- Fix and significant logic rework of snmpCommunityTable to make it working in both Generator and Responder modes and better follow RFC2576 requirements on sequential entries lookup and selection. As a side effect, untagged snmpCommunityTable entries will *\*not\** match tagged snmpTargetAddrTable entries and vice versa.
- Fix to Twisted-based NotificationOriginator to make it serving INFORMs again.
- Fix to rfc2576.v1tov2() logic: errorStatus = noSuchName is now translated into rfc1905.noSuchObject exception value for *\*all\** var-bindings. Although this is not mentioned in RFC, it looks as a more consistent approach.
- Fix of rounding error to base I/O dispatcher's next timer call calculation.
- Explicit twisted dispatcher's timer resolution (of 1 sec) removed to make use of global default of 0.5 sec.
- Fix to twisted/udp non-default local endpoint binding features. Common socket ('host', port) notation is now supported.
- Fix to Twisted-based transport to make it closing UDP port / UNIX pipe on shutdown.
- Fix to Twisted-based dispatcher not to close transport on unregistration



- at dispatcher as transports can potentially be reused elsewhere.
- Fix to asyncore-based transport to work only with AsyncsockDispatcher's socket map and not to touch default asyncore's one. The latter have caused dispatcher/transport restarting issues.
- The delV3User() function improved to drop all rows from USM table that were cloned from the target one.
- Fix to exceptions handling at MsgAndPduDispatcher.sendPdu() to avoid sendPduHandle miss (followed by system crash) on cache expiration run.
- Break cyclic references at CommandResponder and NotificationReceiver apps through close() method.
- Fix to octet string typing at 3DES codec (used to throw an exception).
- Fix to SnmpAdminString, SnmpTagList, SnmpTagValue types to make them supporting UTF-8 initializers.
- Fix to v1/v2c message processing module which used to refer to a bogus stateReference in some cases what causes SNMP engine crashes.
- Fix to IPv6 transport to zero ZoneID, FlowID and ScopeID components sometimes coming along with incoming packet.
- Fix to SNMPv1 MP module to pass stateReference to registered app on unconfirmed notifications reception (to let NotificationReceiver Apps browsing request details).
- (transport information at the moment) at SNMP engine.
- Asyncsock sockets now configured with SO\_REUSEADDR option to fix possible Windows error 10048.
- Gracefully handle malformed SnmpEngineID at USM coming from SNMPv3 header.
- Typos fixed in error-status constants at CommandResponder
- Missing import added to oneliner auth module.
- Cosmetic changes to v3arch example scripts.

Revision 4.2.4, released 2013-01-30

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- SNMPv3 high-level and native API examples reworked and extended to cover many use cases.
- The missing functionality of NOTIFICATION-TYPE objects being looked up at local Management Instrumentation and attached to TRAP/INFORM message by Notification Originator is now fully implemented.
- The missing functionality of passing Response PDU contents of INFORM request is now implemented at Notification Originator app. The return value of NotificationOriginator.sendNotification is now a composite object that includes errorStatus, errorIndex and varBinds.
- The missing functionality of passing lookupNames & lookupValues params to Notification Originator is now implemented. It may make sense for INFORMs.
- The missing functionality of passing contextName to oneliner version of NotificationOriginator.sendNotification is now implemented.
- Oneliner example apps now include cases where non-default SNMP



ContextEngineId/ContextName/SecurityEngineId is used.

- The contextName parameter of SnmpContext.getMibInstrum made optional.
- AbstractMibInstrumController class added as a base class for all possible kinds of Management Instrumentation controllers.
- Report package version on debugging code initialization.
- MibInstrumController.getMibBuilder() added.
- I/O sockets buffer sizes made configurable, minimum default is now forced to be no less than 2\*\*17 (to fit two huge datagrams).
- Catch possible exceptions on pyasn1 encoder invocation.
- VACM modules converted from a function into an object to let it keep state (caches) in the future.
- Unnecessary MibSource explicit initialization calls removed at MibBuilder.
- Example configuration for Net-SNMP's snmptrapd added.
- Cast additionalVarBinds into ObjectIdentifier type at NotificationOriginator.sendNotification()
- Standard SNMPv3 Apps hardened to catch protocol-related exceptions and report them as errorIndication's.
- Catch and mute possible failure of getsockname(), that seems to happen on Windows only so far.
- Memory leak fixed at oneliner cache of already configured targets.
- Fixes to at AsyncNotificationOriginator.sendNotification() to make a) the notificationType param mandatory b) the varBinds param really optional
- Fixes to ContextEngineId/ContextName support at the oneliner API: now both items should be passed to request PDU through Cmd() request initiation method, the items of authData object should be used only for LCD configuration.
- Fix to MibVariable handling of the MIB, <empty-symbol> initializers.
- Fix to outgoing queue processing order at socket transport. Now it's a FIFO discipline rather than LIFO.
- Fix to NotificationOriginator's additionalVarBinds parameter - it is not mandatory anymore with the oneliner API. Also additionalVarBinds defaulted value changed from None to () meaning no var-binds.
- Attempt to convert Windows style EOL into UNIX ones in MIB source modules appeared to be unnecessary and even destructive to modules data in some cases. So the conversion code removed altogether.
- Fix to isAccessAllowed() error handling at NotificationOriginator. System used to crash on access denied condition.
- Fix to NotificationOriginator to make it use system uptime and trap OID values from SNMP engine's instrumentation rather than from SNMP context.
- Fix a couple of bugs at MibTable\* logic involved for table instances creation.
- Fix to Management Instrumentation code to handle cases of non-initialized or not-compliant-to-constraints Managed Objects Instances.
- Fix to Management Instrumentation code to make table row removal through



SNMP working again. Wrong method (instumClone) was probed at terminal MIB nodes values instead of the right one (setValue).

Revision 4.2.3, released 2012-09-06

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- SECURITY FIX: USM subsystem did not verify securityLevel of a request to an authoritative SNMP engine against auth/priv protocols configured for the user in question. That allowed unauthenticated/unciphered access to pysnmp-based Agent even if USM user is configured to provide one.
- Oneliner [Asyn]CommandGenerator now supports optional keyword args lookupNames, lookupValues that enable response OID / value looked up at MIB and reported as a MibVariable container object carrying relevant MIB info.
- Oneliner [Asyn]CommandGenerator now supports symbolic MIB object names to be passed within a MibVariable container object which would do a deferred MIB lookup for name resolution. This is a new and preferred API which obsoletes the tuple-based one (it is still supported though).
- Oneliner CommandGenerator's class attributes lexicographicMode, maxRows and ignoreNonIncreasingOid moved to optional keyword args of nextGen() and bulkGen() methods.
- IPv6/UDP and Local Domain Socket transport interfaces added to the oneliner API.
- Mib Instrumentation subsystem re-worked to replace excessive MibNode's smiCreate()/smiWrite()/smiDestroy() methods with MibScalarInstance's getValue()/setValue()
- MibTree.readTest[Get]Next() reworked to be called uniformly so user could tap on these methods at any level of the MIB tree.
- MibTableColumn.getNextNodeWithValue() unpublished API method obsoleted and removed for clarity.
- Hex dumps of binary parts of the protocol added to ease system operations analysis.
- SnmpEngineId autogeneration does not call DNS resolver but uses local hostname not to depend upon local IP availability and performance.
- Example apps reworked, additional SNMPv3 auth/priv protocols and transports added.
- Package version is now available as \_\_init\_\_.\_\_version\_\_ and it is in-sync with distutils.
- Package meta-information updated.
- The \_\_init\_\_.py's made non-empty (rumors are that they may be optimized out by package managers).
- Multiple fixes to UNIX domain socket transport to make it fully operational again.
- Use sysUpTime value whenever it is included in Notification PDU, otherwise resort to SNMP engine uptime reading.
- SNMPv2c Message is now defined in rfc1901.py what matches standard



definition.

- Types defined within SNMPv1/v2c data structures (rfc1157.py/rfc1905.py) moved to module scope to become accessible by wrapper routines (v1.py/v2c.py). This is used for setting strictly typed default values to corresponding SNMP data structures.
- The obsolete and unpublished MibInstrumController.readVarsFast() method removed for API clarity.
- MibBuilder now distinguishes case of MIB modules filenames even if underlying OS does not.
- LCD configuration caching is implemented at pysnmp.entity.rfc3413.config that improves performance of repetitive calls by 10% and might hugely improve NotificationOriginator's performance when working on a large number of targets.
- A caching maps implemented at rfc2576 subsystem to speed-up communityName to/from securityName resolution. The also makes transport tags processing better compliant to the standard.
- Community and Transport tags processing changed at the oneliner interface to make the whole mechanism more compliant with the standard. Most importantly, it is now possible to tag authentication and transport information separately.
- The NoSuchInstanceError exception class is no more inherits from NoSuchObjectError to make class hierarchy closer to SNMP specification which states that these errors are separate and independent.
- The Next & BulkCommandGenerator's split onto single-run and iterative implementations. The former just process a single interaction and complete while the latter run as many interactions as user callback function indicates to.
- The pysnmp.entity.rfc3413.mibvar module is now obsolete by pysnmp.entity.rfc3413.oneliner.mibvar featuring basically the same features but within a stateful, dedicated object.
- Auth & target configuration container classes moved to their separate modules at oneliner API.
- The notificationType parameter of AsyncNotificationOriginator.sendNotification made defaulted to reflect its optional nature.
- Oneliner UsmUserData, UdpTransportTarget, Udp6TransportTarget instances are not hashable anymore as they are intended to act more like a data structure than object.
- Built-in debugger now supports negating debugging categories.
- An async/getgen.py example script added.
- Fix to MIB data reading routine to make it working with possible Windows end-of-line's.
- Fix to CommandGenerator's SNMPv3 engine autodiscovery algorithm when retryCount is administratively set to 0.
- Fix to Notification Originator to make it communicating a single sendPduHandle to an application even when multiple INFORMs are triggered and processed by a single call by way of transport tagging feature.
- Fix to rfc2576:processIncomingMessage() to take SecurityModel into account



when lookup up SecurityName by CommunityName. This allows mixed SNMPv1/v2c communication with the same target.

- Fix to internal MessageProcessing and SecurityModel timers so they become dependant on system timer resolution.
- Fix to v1.PDUAPI.setDefaults() method that used to set wrongly typed time-stamp component.
- Fix to IPv6 address handling to prevent system from crashing whilst running Python3.
- Fix to SNMPv2 exception objects translation into SNMPv1 PDU and NEXT OIDs calculation.
- Fix to MibTree class to properly report noSuchObject & noSuchInstance SNMP special values.
- Fix to libsmi2pysnmp tool to make it working again in Python < 2.7
- Fix to exception handling at decodeMessageVersion() caller to prevent ASN.1 parsing errors crashing the whole app.
- Fix to GenericTrap type processing at rfc2576:v1Tov2c() which used to crash the whole SNMP engine.
- Fix to [possibly uninizilaized] pyasn1 objects printouts at MibInstrumController.\_\_indexMib()
- Fix to maxSizeResponseScopedPDU calculation at rfc3414/service.py.
- Dedicated 'withmib' example set is obsolete and removed.
- Another SNMP proxy example app added (1to3.py).
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- Fix to MIB modules loading code to make it using \_\_import\_\_() properly. This also makes pysnmp working again with Python 3.3rc0.
- Typo fix to snmpInASNParseErrs MIB instance object.
- Typo fix to errind.EngineIdMismatch class and its instance.

Revision 4.2.2, released 2012-04-21

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- Oneliner CommandGenerator can now limit the number of SNMP table rows returned by nextCmd()/bulkCmd() methods.
  - Oneliner CommunityData configuration object can now be initialized with community name only, security name will be chosen automatically.
  - Oneliner LCD configuration routines reworked towards clarity. The side-effect of this change is that repetitive oneliner call with the same securityName and different configuration options will only honor the first settings. Previous implementation would override older settings.
  - Transport dispatcher now provides its own time expressed in fractions of second. SNMP engine uses this notion of time for handling requests timeout to make packet flow time bound to async I/O core operations rather than to real time.
  - The libsmi2pysnmp tool improved to handle incomplete SMI v1->v2 conversion performed by smidump. The remaining core SMIv1 modules excluded from the core MIB set.
  - The pyasn1 constraint and enumeration objects put into ASN1-\*



- MIB modules what appears to be more in-line with SMI. Existing MIB modules as well as libsmi2pysnmp tool corrected accordingly.
- SMIV1 MIB modules (including RFC1155 and RFC1213) were moved to pysnmp-mibs as pysnmp is SMIV2-based.
  - The MibBuilder.importSymbols() now takes optional kwargs and push them into MIB modules globals(). This is to facilitate passing user information, such as DB connection handler, to MIB module namespace so it could be used by ManagedObjects implementations.
  - When running on Python3, SMI will re-raise exceptions with the original traceback for easier diagnostics.
  - Out of PYTHONPATH MIB paths now supported.
  - 
  - Added pyasn1 decoder failures diagnostics in debug mode.
  - Fix to non-MT-safe class attributes at SNMPv3 MP & SEC modules.
  - Fix to ContextName handling in bytes form whilst running Python3. Data mismatch error would return otherwise.
  - Fix to SNMPv3 MP peer engine ID discovery not to learn and use user-specified ContextEngineId.
  - Fix to socket.error processing at Py3 on Windows.
  - Fix to oneliner GETNEXT/GETBULK implementation to properly support ignoreNonIncreasingOIDs option.
  - Fix to setEndOfMibError()/setNoSuchInstanceError() at v1 PDU not to loose errorIndex.
  - Fix to api.v2c.getVarBindTable() to ignore possible non-rectangular GETBULK response tables.
  - Fix to oneliner getnext/getbulk response table rectangulation procedure to gracefully handle an empty column condition.
  - Fix to legacy MibBuilder.getMibPath() to prevent it from missing .egg-based components in path.
  - Fix to oneliner configuration routine that used to implicitly tag SNMPv1/v2c auth and transport LCD rows what resulted in huge delays when processing incoming messages with large number of peers configured.
  - Fix to UDP6 transport handling at rfc2576 security module.
  - Fix to SnmpEngineID value autogeneration (used to fail on Mac).
  - SNMPv2-SMI.ObjectType.\_\_repr\_\_() fixed to do a repr() on its components.
  - All SNMPv2-SMI.MibNode-based objects, once exported to a mibBuilder, will carry an embedded label symbol.
  - Explicit repr() calls replaced with '%r'
  - Fix to error processing at GETNEXT & GETBULK apps response handlers.
  - Fix to libsmi2pysnmp to make it supporting long (256+) list of function params.
  - Fix to libsmi2pysnmp to support inheritance of MIB types.

Revision 4.2.1, released 2011-11-07

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- Support string OIDs at one-liner API.
- Code quality of libsmi2pysnmp tool improved, MIBs re-built.
- SNMP-PROXY-MIB & SNMP-USER-BASED-SM-3DES-MIB added
- v1arch bulkgen.py example added
- Major overhaul for Python 2.4 -- 3.2 compatibility:

- + get rid of old-style types
- + drop string module usage
- + switch to rich comparison
- + drop explicit long integer type use
- + map()/filter() replaced with list comprehension
- + apply() replaced with var-args
- + dictionary operations made 2K/3K compatible
- + division operator made 2K/3K compatible
- + sorting function now operates on key
- + iterators returned by some funcs in py3k converted to lists
- + exception syntax made 2K/3K compatible
- + tuple function arguments resolved to scalars to become py3k compatible
- + BER octetstream is now of type bytes (Py3k) or still string (Py2k)

Revision 4.1.16d, released 2011-09-22

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- Fix to SNMPv1 Trap PDU agentAddress setter shortcut method.

Revision 4.1.16c, released 2011-08-14

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- Missing module import fixed in privacy subsystem

Revision 4.1.16b, released 2011-08-13

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- Oneliner CommandGenerator can now optionally ignore non-increasing OIDs.
- Default CommandResponder now skips non-compliant (Counter64) values when responding to a v1 Manager.
- Fix to state information handling at CommandResponder app.
- Fix to Twisted reactor shutdown condition.
- Fix to distutils dependencies syntax.

Revision 4.1.16a, released 2011-03-17

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- Extended Security Options (3DESEDE, AES192, AES256) privacy protocols implemented.
- The error-indication codes moved from literals to objects for reliability and clarity



- Fix to v1.TrapPDUAPI.getVarBinds() to address PDU component at the right position.
- Fix to rfc1902.Bits initialization from named bits sequence.
- Fix to MIB builder by-extension module filtering code to cope with .pyw files.
- Internal caches structure improved.
- Sync versions of oneliner apps split off async implementation for clarity.
- Randomize initial in various numeric sequences.
- MsgAndPduDsp expectResponse parameters passing reworked.
- 

GetNext/GetBulk response processing logic moved to getNextVarBinds()

- Changes towards performance improvement:

- + all dict.has\_key() & dict.get() invocations replaced with modern syntax (this breaks compatibility with Python 2.1 and older).
- + introduce the MibInstrumControlle.readVarsFast() method (which skips the "testing" phase of MIB value readin) for dealing with internal configuration (LCD).
- + default debug.logger is now just a zero value instead of an object what saves big on frequent calls
- + SNMPv2-SMI columnar indices <-> index values conversion code optimized.
- + pre-compute and re-use some of ASN.1 structures.
- + avoid setting PDU defaults to save on unnecessary initialization.
- + skip ASN.1 types verification where possible.
- + at oneliner Command Generator, avoid looking up pure OID arguments at MIB as it's pointless but takes time.
- + cache MIB columnar objects instance ID <-> symbolic index representation mapping

Revision 4.1.15a,  
released 2010-12-13

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- SNMP Proxy example added.
  - End-of-MIB condition detection reworked what caused backward incompatibility at v1arch GETNEXT API. Previous pysnmp versions used value = None in var-binds as returned by getVarBindTable() API method. This version uses rfc1905 exception values (v2c/v3) or pyasn1 Null (v1).  
Built-in GETNEXT/GETBULK apps now do not require user to track end-of-mib conditions anymore -- this is now done automatically.
  - CommandResponder API now supports async mode of operation.
  - SNMP exception values now exported from rfc1905 module, and made pretty printable.
  - Lexicographic walking mode is now supported at oneliner CommandGenerator.
  - ContextEngineId&ContextName parameters passing implemented at v3arch oneliner API.
  - Multiple instances of the same transport domain now supported.



- Initial snmpEngineId value generation improved not to accidentally collide within an administrative domain.
- MibTableColumn instances now build value-to-column-instance map to speedup by-value search.
- SNMPv2-CONF::AgentCapabilities macro implemented.
- The libsmi2pysnmp tool handles some more MACROs.
- Void access control module implemented to let apps disabling [default] VACM.
- Allow standard SNMP apps to choose access control method to use.
- Twisted-based CommandResponder example added.
- Fix/rework of Twisted GETNEXT/BULK CommandGenerator callback API to make it simpler and uniform with other CommandGenerators
- Fix to SNMPv3 security module to store peer SNMP engine timeline only if taken from an authenticated message. Prior to this fix SNMP engine was not been protected from spoofing.
- Fix to \$SMIPATH initialization at build-pysnmp-mib.
- Fix to maxSizeResponseScopedPDU calculation.
- Fix to Next/Bulk CommandGenerators to catch a non-increasing OID error condition (what prevents looping).
- Fix to Opaque value tagging at rfc1155.Opaque type.
- Fix to handle (fail gracefully) zero-length user password.
- Fix to SNMP error propagation at Twisted driver (SF tracker ID #3054505).
- Fix to Agent-role snmpEngineId discovery procedure that allows authenticated ReportPDU generation.
- Fix to SNMPv1 PDU handling at CommandResponder & NotificationReceiver apps.
- Fix to CommandResponder app to skip Counter64 SMI values when responding to SNMPv1 Manager.
- Fix to protocol translator code (rfc2576) to handle Counter64 type in v2c-to-v1 PDU translation.
- Fix to non-response var-binds translation in rfc2576.v2ToV1().
- Fix to wrong exceptions used in pysnmp/entity modules.
- Fix to noauth/nopriv security module so that it would not crash SNMP engine if called accidentally.
- Fix to CommandResponder not to return out-of-range errorIndex along with genErr
- Fix to GETBULK CommandResponder to do a by-column MIB walk, not by-raw.
- Fix to getVarBindTable() API function logic.
- Fix to example Manager scripts to use errorIndex when available.
- Fix to dummy encryptData()/decryptData() API
- Fix to oneliner GETBULK table collection code to make it stripping uneven rows off table tail.

Revision 4.1.14a, released 2010-07-15

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- Fix to maxSizeResponseScopedPDU calculation at USM security module: now more precise and robust against screwed values on input.
- Fix to MIB loading logic that used to load same-name modules at distinct search paths on each loadModules() call.
- Fix to AsynsockDispatcher.runDispatcher() to make use of optional non-default select() timeout value.
- AbstractTransportDispatcher now allows user application registering multiple timer callbacks each with dedicated call period.
- Asynsock mainloop default idle period reduced to 0.5 sec for better timer resolution.
- Fix to SNMPv1->SNMPv2c error status handling at proxy module. This defect may have caused an infinite loop on a multiple var-bind SNMPv1 GetNext operation.
- Fix to contextName processing at config.addV1System -- typo rendered passed contextName not committed into LCD.
- Fix to unknown ContextName exception handling at CommandResponder App.
- config.addVacmUser() now accepts an optional contextName what makes it usable for configuring multiple contextName-bound bases of Managed Objects to SnmpEngine.
- MP pending states cache management re-worked so that SNMP engine will now handle an unlimited number of pending request/responses.
- Fix to SNMP discovery procedure: include ContentName in SNMP discovery messaging.
- Many fixes to AES crypto code that makes it actually working.
- Fix to SNMPv2-SMI createUndo operations.
- Fix to INFORM sending error handling at oneliner.
- Fix to mismatched response PDU handling at CommandGenerator application.
- Debug category 'app' (for Application) added to facilitate Standard SNMP Applications debugging.
- The retryCount semantic of CommandGenerator application changed to include sole retries and do not include initial request. Thus, retryCount=1 will now send up to two packets, not just one as it used to be.
- Debugging printout now escapes non-printable characters.

Revision 4.1.13a, released 2010-02-09

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- UDP over IPv6 transport implemented.
- Fix to MIB tree walking code that used to fail on table columns where indices have identical leading parts.
- SNMPv1/v2c snmpCommunityTransportTag-based incoming message filtering implemented (rfc2576).

Revision 4.1.12a, released 2009-12-03

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- API versioning retired (pysnmp.v4 -> pysnmp).
- MIB loading mechanics re-designed to allow ZIP import.
- MIB loader supports code objects (py[co])
- Installer now uses setuptools for package management whenever available.
- The libsmi2pysnmp tool improved to build constraints of more than 256 items (Python has a limit on the number of function params).
- Missing SNMPTrap PDU API implemented at proto.api.v2c, RFC2576 proxy code reworked.
- Fix to sysUpTime OID at SNMPv2 TRAP PDU.

Revision 4.1.11a, released 2009-08-21

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- Twisted integration implemented.
- Attempt to use hashlib whenever available.
- Fix to oneliner Manager code on < Python 2.4.
- Let NotificationReceiver and CommandResponder Apps browsing request details (transport information at the moment) at SNMP engine.
- Fix to config.addV1System() to allow multiple systems to co-exist in LCD.
- Fix to wrongly succeeding user-parameters-by-community-name searching code in rfc2576 processIncomingMsg() method.
- Do sanity checking on PYSNMP\_MODULE\_ID, Groups and Notifications in libsmi2pysnmp (SF bug #2122489).
- Fix to oneliner Notification Originator that sometimes used to send multiple requests at once.
- Oneliners LCD names generation code reworked to avoid accidental clashes.
- Fix and re-work of sysUpTime value management in LCD.
- Fix to pending inform request data caching in mpm/rfc2576.py -- previous code led to cache data corruption on multiple outstanding requests.
- In SMI configuration wrapper functions, catch access to non-configured entries and raise an exception.
- Allow multiple callback timer functions in all transport dispatchers.
- Fix to libsmi2pysnmp code to preserve more underscored object names and to guess the right type between indistinguishable ObjectGroup & NotificationGroup
- Fix to MibScalarInstance value setting logic - previous code failed when modifying the same OID multiple times within a single SET operation.
- Minor usability improvements to tools/build-pysnmp-mib.
- Made MIB objects unexport feature operational.

Revision 4.1.10a, released 2008-05-25

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- Internal MIB indexing method \_\_indexMib() unmangled to facilitate setting up mutex there for sharing MIB stuff between threads.
- Fixed broken IpAddress value handling in SET operation.



- Broken MibBuilder.unloadModules() method now works.
- Use getLabel() SMI object method when building MIB tree (in builder.py) in addition to direct attribute access for clearer object protocol.
- The MIB building tools updated to match significantly improved smidump tool (libsmi version > 0.4.5).
- Made libsmi2pysnmp tool optionally building MIB text fields into pysnmp MIB code (enabled by default) and MibBuilder conditionally loading them up (disabled by default).
- SnmpEngine and MsgAndPduDispatcher constructors now optionally take msgAndPduDspr and mibInstrumController class instances respectively to facilitate these objects sharing within a process.
- Unique integers, for various parts of the system, are now generated by a nextid.py module. This fixes possible issues with duplicate request IDs and handlers.
- Built-in MIBs re-generated to include text fields.

Revision 4.1.9a, released 2007-11-28

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- UNSTABLE ALPHA RELEASE.
- At onliner CommandGenerator, close transport on destruction to prevent socket leak. Implicit async transports registration at default asyncore's socket map has been disabled to avoid side effects.
- Fix to rfc2576.v1ToV2c() PDU converter to perform noSuchName error code translation.
- Fixes to Notification PDU conversion code at rfc2576 in part of snmpTrapOID handling.
- Fix to nonRepeaters object use as sequence slicer (must be int) at cmdrsp.CommandResponderApplication
- Make AsynsockDispatcher using its own socket map by default for threading safety. This will break asyncore apps that rely on pysnmp sharing the same socket map with them. A solution would be to either set asyncore map to pysnmp (AsynsockDispatcher.setSocketMap()) or pass pysnmp map (AsynsockDispatcher.getSocketMap()) to asyncore.
- Fix to response timeout roundup bug at CommandGenerator and NotificationOriginator code.
- Oneline configuration classes made hashable to prevent memory leaks when committing them into CommandGenerator/NotificationOriginator internal repository.
- Security information is now released properly in all MP modules. This might fix a significant memory leak.
- Typo fix to rfc3411 confirmed class PDU members.

Revision 4.1.8a, released 2007-08-14



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- 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

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- UNSTABLE ALPHA RELEASE.
- Low-level debugging facility implemented.
- Support UdpTransportTarget timeout and retries parameters in oneliner API.
- Fix to snmpTrapOID construction at ...proxy.rfc2576.v1ToV2() function.
- Fix to MibViewController.getNodeName() to take MIB module name into account (SF bug #1505847).
- Do explicit check for Counter32, Unsigned32, TimeTicks, Counter64 value types in MibTableRow index conversion and in TextualConvention.prettyPrint() methods (SF bug #1506341). Handle Bits in indices as RFC2578 suggests.
- Apply read-create column status to libsmi2pysnmp-generated code whenever MIB text specifies that (SF bug #1508955).
- Honor and apply DISPLAY-HINT specification when building TextualConvention class at libsmi2pysnmp.
- Managed Objects Instances files (smi/mibs/instances/) are now double-underscore prefixed to make them imported explicitly by these prefixed names. They used to be imported as a side-effect of Managed Objects files import what is way too hackerish.
- The libsmi2pysnmp now supports future libsmi bugfix that would generate "ranges" subtree along with the legacy and ambiguous "range" one.
- SMI support for fixed-length string indices implemented (SF bug #1584799, #1653908).
- Managed Object Instances may now have smiRead, smiWrite, smiCreate methods to support specific value mangling. These methods, if present, would be invoked from SNMP [Agent] core instead of conventional clone() method. The reason is to separate trivial value duplication from specific Instance value mangling that may have Agent-specific side effects (such as RowStatus).
- MIB table row destruction now works (SF bug #1555010).
- LCD unconfiguration functions for oneliners implemented (SF bug #1635270).
- unloadModules() and unexportSymbols() implemented at MibBuilder
- Notification type PDU proxy code fixed to produce symmetrical conversion.
- Various SNMP engine-internal caches expiration implemented.
- SMI-level access control now takes effect only if AC object is passed to MIB instrumentation API.
- LCD management code now uses generic MIB instrumentation features.
- Fix to oneliner manager code to have individual UdpSocketTransport instance per each SnmpEngine. Multithreaded apps might fail otherwise. (SF bug ID #1586420).
- Exclude the PYSNMP\_MODULE\_ID symbol from MIB view index, as it may get resolved into OID label instead of actual MIB object name.
- Memory leak fixed in indices.OidOrderedDict implementation.
- Fix to VACM shortcuts to let notifications and requests to co-exist for the same user otherwise.



- Fix to ...oneline.cmdgen.UsmUserData to support non-default ciphers.
- USM now uses local notion of snmpEngineBoots/Time when authoritative and cached estimate otherwise. Also, a security fix applied to USM time-window verification (SF bug #1649032).
- Fix to notification objects resolution code at NotificationOriginator.sendNotification()
- Do not raise securityLevel for USM error reports that lacks user information, as these reports could never be ciphered (SF bug #1624720).
- Non-default BULK PDU params now actually applied.
- SnmpEngineID default value generation algorithmic function changed to allow multiple SNMP engines running on the same host.
- Documentation updated.
- A handful of minor fixes applied (SourceForge tracker IDs #1537592, #1537600, #1537659, #1548208, #1560939, #1563715, #1575697, #1599220, #1615077, #1615365, #1616579).

Revision 4.1.6a, released 2006-05-25

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- UNSTABLE ALPHA RELEASE.
- pysnmpUsmSecretAuthKey and pysnmpUsmSecretPrivKey length increased up to 256 octets. There seems no limit on this in RFC, though.
- A workaround for probably broken Agents: SNMPv3 Manager code defaults ContextEngineId to SecurityEngineId whenever ContextEngineId is not reported by authoritative SNMP engine on discovery.
- Use empty PDU in engine-discovery report at mpmmod/rfc3412.py.
- MibBuilder.loadModules() now fails on missing MIB files.
- MibBuilder.exportSymbols() now accepts unnamed objects (likely Managed Objects Instances)
- SNMPv2-SMI.MibScalarInstance objects now support create\*/destroy\* Management Instrumentation methods to pass Columnar Object creation and removal events. MibTableColumn class invoke these methods accordingly.
- Fix to AsyncNotificationOriginator.asyncSendNotification() callback formal parameters
- Initial VACM configuration implemented according to rfc3415 Appendix 1
- tools/buildmibs.sh split-up and re-implemented as tools/build-pysnmp-mib and pysnmp-mibs/tools/rebuild-pysnmp-mibs for better usability. These and libsmi2pysnmp scripts made installable.
- Types/Notifications/Groups exportSymbols() call chunking implemented in tools/libsmi2pysnmp
- Initial values specified to pyasn1 types to comply with latest pyasn1 API.
- Documentation improved
- Minor fixes towards Python 1.5 compatibility

Revision 4.1.5a, released 2005-11-04

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- UNSTABLE ALPHA RELEASE.
- Multi-lingual SNMP Trap/Inform Applications completed; examples added
- SMI model re-designed to make a clear separation between Managed Objects and their specification (AKA Agent and Manager side)
- SNMP SET Application support completed
- Minor, though backward incompatible, changes to one-liner API
- Many bugfixes

Revision 4.1.4a,  
released 2005-08-16

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

Revision 4.1.3a, released 2005-07-28

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- UNSTABLE ALPHA RELEASE.
- rfc3413 applications API changes (related to callback function behaviour).
- TransportDispatcher now provides "jobs" interface to clients for better control of dispatcher's execution.
- Many minor fixes.

Revision 4.1.2a, released 2005-07-12

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- UNSTABLE ALPHA RELEASE.
- Top-level application classes renamed into longer, self describing names for clarity.
- CommandResponder & NotificationOriginator applications now uses stand-alone SnmpContext for application registration.
- Many minor fixes (inspired by testing on WinXP)

Revision 4.1.1a, released 2005-06-29

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- UNSTABLE ALPHA RELEASE.
- SNMPv3 code first published
- SNMP engine and applications implemented on library level
- Major re-design towards SNMPv3-style API.



Revision 4.0.2a, released 2005-03-01

- 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):

\* /opt/cola/permits/1265274042\_1643915793.07/0/pysnmp-4-4-12-tar-gz/pysnmp-4.4.12/CHANGES.txt

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if mibBuilder.loadTexts: snmpUsmHmacSha2MIB.setDescription("Definitions of Object Identities needed for the use of HMAC-SHA2 Authentication Protocols by SNMP's User-based Security Model. Copyright (c) 2016 IETF



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## 1.138 python-werkzeug 1.0.1

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## 1.140 python-scandir 1.10.0



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## 1.143 tcl 8.6.12

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## 1.145 zope.deferredimport 4.4

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## 1.146 nghttp2 1.47.0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.147 php 7.4.28

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

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

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

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)



```

*/
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
<!--
XX
X
 This file is generated from xml source: DO NOT EDIT
XX
X
 -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css"
/>
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"></div>
<div id="path">
Apache > HTTP Server > Documentation > Version 2.4</div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p>Available
Languages: en </p>
</div>

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</div>

</div>

<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

</div><div class="top"><a href="#page-header"></a></div><div  
class="section"><h2><a id="comments\_section" name="comments\_section">Comments</a></h2><div

class="warning"><strong>Notice:</strong><br>

/>This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the  
documentation or server, and may be removed by our moderators if they are either implemented or considered  
invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC  
channel, #httpd, on Libera.chat, or sent to our <a href="https://httpd.apache.org/lists.html">mailing lists</a>.</div>

<script type="text/javascript"><!--><![CDATA[</script></div>

var comments\_shortcode = 'httpd';

var comments\_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments\_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show\_comments.lua?site=' + comments\_shortcode + '&page=' +

comments\_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments\_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

</script></div><div id="footer">

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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a



```
href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | Sitemap</p></div><script type="text/javascript"><!--<!--><![CDATA[<!--<!-- if (typeof(prettyPrint) !== 'undefined') {
 prettyPrint();
}
//--><![></script>
</body></html>
```

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\* zlib.h -- interface of the 'zlib' general purpose compression library  
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jloup@gzip.org      madler@alumni.caltech.edu

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\*/

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## 1.153 pycurl 7.45.1

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## 1.163 sudo 1.9.10

### 1.163.1 Available under license :

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, send a note to [sudo@sudo.ws](mailto:sudo@sudo.ws).

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



Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
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  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo



Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbess, 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.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Orbn, Lszl  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres



Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger,  
Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
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Tucker, Darren  
Uhl, Robert



Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

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

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav



Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Florentina Muat  
Nurmi, Lauri  
Nikoli, Miroslav  
Nylander, Daniel  
Pan, Yi-Jyun  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
erbnescu, Daniel  
Shahedany, Eshagh  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer  
Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield logo:

Badger, Trent

Sandwich logo (inspired by xkcd): Stillman, Mark

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Todd C. Miller <Todd.Miller@sudo.ws>

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## 1.169 vim 8.2.4926

## 1.170 libnsl 2.0.0

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## 1.171 e2fsprogs 1.46.5

### 1.171.1 Available under license :

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 a Makefile stub which handles the creation of BSD shared # libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#



all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'~/\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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#### Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY;
for details type `show w'.
This is free software, and you are welcome to redistribute it
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```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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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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Version 2, June 1991

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```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name
of author>
```

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



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

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision
comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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

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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  
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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.

6. As an exception to the Sections above, you may also compile or  
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the terms permit  
modification of the work for the customer's own use and reverse  
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of these things:

a) Accompany the work with the complete corresponding  
machine-readable source code for the Library including whatever  
changes were used in the work (which must be distributed under  
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with the Library, with the complete machine-readable "work that  
uses the Library", as object code and/or source code, so that the  
user can modify the Library and then  
relink to produce a modified  
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that the user who changes the contents of definitions files in the  
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It is part of the main e2fsprogs distribution, which can be found at:

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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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Constant-time SSSE3 AES core implementation.
version 0.1

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## 1.176 gawk 5.1.1

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

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The



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-----

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# 1.178 util-linux 2.38.0

## 1.178.1 Available under license :

NR START END SECTORS SIZE NAME UUID

```
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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# 1.183 samba 4.15.6

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section 10

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 */
```

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```
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/bytes.h
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/ext/binary_protocol_accelerated.c
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/bytes.c
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/struct.c
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/memory_buffer.c
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* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/compact_protocol.c
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\* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/ThriftNamespacedSpec.thrift  
 \* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/ThriftSpec.thrift  
 \* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/Referenced.thrift  
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\* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/macros.h  
 \* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/constants.h  
 \*  
 /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/struct.h  
 \* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/strncpy.h  
 \* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-



gz/ext/binary\_protocol\_accelerated.h

\* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/memory\_buffer.h

\* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/compact\_protocol.h

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Thrift Ruby Software Library

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== DESCRIPTION:

Thrift is a strongly-typed language-agnostic RPC system. This library is the ruby implementation for both clients and servers.

== INSTALL:

\$ gem install thrift

== CAVEATS:

This library provides the client and server implementations of thrift. It does *not* provide the compiler for the .thrift files. To compile .thrift files into language-specific implementations, please download the full thrift software package.

== USAGE:

This section should get written by someone with the time and inclination. In the meantime, look at existing code, such as the benchmark or the tutorial



in the full thrift distribution.

Found in path(s):

\* /opt/cola/permits/1344830727\_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/README.md

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* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/spec_helper.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/thin_http_server_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/binary_protocol_spec_shared.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/ssl_socket.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/struct_nested_containers_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/server_spec.rb
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/client_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/struct_union.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/socket_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/benchmark/client.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/struct.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/nonblocking_server_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/exception_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/core_ext/fixnum.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/protocol/json_protocol.rb
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/namespaced_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/unix_socket_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/ssl_socket_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/buffered_transport.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/http_client_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/json_protocol_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/BaseService.thrift
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/multiplexed_processor.rb
```



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* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/base_transport_spec.rb
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/server/nonblocking_server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/server/thin_http_server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/server/threaded_server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/base_protocol_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/types.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/bytes.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/compact_protocol_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/flat_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/union.rb
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/benchmark/thin_server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/protocol/multiplexed_protocol.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/memory_buffer_transport.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/thrift_native.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/server_socket_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/server/base_server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/server/mongrel_http_server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/http_client_transport.rb
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/binary_protocol_accelerated_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/serializer/deserializer.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/serializer/serializer.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/protocol/compact_protocol.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/unix_server_socket.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/server/thread_pool_server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/types_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/socket_spec_shared.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift.rb

```



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*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/ssl_server_socket.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/struct_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/ext/extconf.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/io_stream_transport.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/protocol/binary_protocol.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/base_server_transport.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/socket.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/core_ext.rb
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/ssl_server_socket_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/protocol/binary_protocol_accelerated.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/protocol/protocol_decorator.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/processor_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/framed_transport.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/protocol/base_protocol.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/benchmark/benchmark.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/exceptions.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/base_transport.rb
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/transport/server_socket.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/ExtendedService.thrift
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/bytes_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/serializer_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/lib/thrift/server/simple_server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/spec/binary_protocol_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/lib/thrift/client.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/benchmark/server.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-
gz/benchmark/Benchmark.thrift
*
/opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-gz/spec/union_spec.rb
* /opt/cola/permits/1344830727_1655285736.6262972/0/thrift-0-16-0-1-gem/data-tar-

```



# 1.185 wget 1.21.3

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Version 3, 29 June 2007

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## 1.187 coreutils 9.1

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# 1.189 icu 66.1

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-makefile-
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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
This package was debianized by Jay Berkenbilt <qjb@debian.org> on
August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on

```



Tue, 17 Mar 2015.

The original source was downloaded from  
<http://site.icu-project.org/download>

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## THE BASIC LIBRARY FUNCTIONS

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## PCRE JUST-IN-TIME COMPILATION SUPPORT

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Written by: Philip Hazel  
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Email domain: cam.ac.uk

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[zlib]

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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

The data format used by the zlib library is described by RFCs (Request for  
Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt>  
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).  
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[fp16]



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# 1.193 glib 2.72.0

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## 1.203 kerberos 1.19.3

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cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
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  
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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  
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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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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c



lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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yaml-cpp: A YAML parser and emitter in C++

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## 1.209 xmlsecurityforc++ 2.0.4

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# 1.210 log4shib 2.0.1

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## 1.211 python-dbus 1.2.18

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## 1.216 python-pathlib2 2.3.6

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Metadata-Version: 1.1

Name: pathlib2

Version: 2.3.6

Summary: Object-oriented filesystem paths

Home-page: <https://github.com/mcmtroffaes/pathlib2>

Author: Matthias C. M. Troffaes

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

License: MIT

Description: **\*\*As of January 1 2020, this repository will no longer receive any further updates, as Python 2 is no longer supported.\*\***

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.

`.. |github| image:: https://github.com/mcmtroffaes/pathlib2/actions/workflows/python-package.yml/badge.svg  
:target: https://github.com/mcmtroffaes/pathlib2/actions/workflows/python-package.yml  
:alt: github`

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:alt: appveyor`

`.. |codecov| image:: https://codecov.io/gh/mcmtroffaes/pathlib2/branch/develop/graph/badge.svg  
:target: https://codecov.io/gh/mcmtroffaes/pathlib2  
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Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

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Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3



Classifier: Programming Language :: Python :: 2.7  
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Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: 3.9  
Classifier: Topic :: Software Development :: Libraries  
Classifier: Topic :: System :: Filesystems

Found in path(s):

\* /opt/cola/permits/1345680853\_1655895078.0113316/0/pathlib2-2-3-6-1-tar-gz/pathlib2-2.3.6/PKG-INFO  
\*

/opt/cola/permits/1345680853\_1655895078.0113316/0/pathlib2-2-3-6-1-tar-gz/pathlib2-2.3.6/pathlib2.egg-info/PKG-INFO

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\* /opt/cola/permits/1345680853\_1655895078.0113316/0/pathlib2-2-3-6-1-tar-gz/pathlib2-2.3.6/setup.py  
\* /opt/cola/permits/1345680853\_1655895078.0113316/0/pathlib2-2-3-6-1-tar-gz/pathlib2-2.3.6/tests/test\_pathlib2.py

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# 1.217 sslh 1.22c

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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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## 1.218 python-webpy 0.51

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Metadata-Version: 2.1

Name: web.py

Version: 0.51

Summary: web.py: makes web apps

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

Author: Aaron Swartz

Author-email: [me@aaronsw.com](mailto:me@aaronsw.com)



Maintainer: Anand Chitipothu

Maintainer-email: anandology@gmail.com

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Description: web.py is a web framework for Python that is as simple as it is powerful.

Visit <http://webpy.org/> for more information.

[![build status](https://secure.travis-ci.org/webpy/webpy.png?branch=master)](https://travis-ci.org/webpy/webpy)

[![Codecov Test Coverage](https://codecov.io/gh/webpy/webpy/branch/master/graphs/badge.svg?style=flat)](https://codecov.io/gh/webpy/webpy)

The latest stable release `0.50` supports both Python 2.7 and Python  $\geq 3.5$ .

To install it, please run:

```
...

For Python 2.7
pip2 install web.py==0.50

For Python 3
python3
-m pip install web.py==0.50
...
```

You can also download it from [GitHub Releases](https://github.com/webpy/webpy/releases) page, then install it manually:

```
...

unzip webpy-0.50.zip
cd webpy-0.50/
python3 setup.py install
...
```

Note: `0.50` is the last release which supports Python 2. Future releases will drop support for Python 2.

Platform: any

Classifier: License :: Public Domain

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Description-Content-Type: text/markdown



Found in path(s):

\* /opt/cola/permits/1345680871\_1655895130.0206068/0/web-py-0-51-tar-gz/web.py-0.51/web.py.egg-info/PKG-INFO

\*

/opt/cola/permits/1345680871\_1655895130.0206068/0/web-py-0-51-tar-gz/web.py-0.51/PKG-INFO

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

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\* /opt/cola/permits/1345680871\_1655895130.0206068/0/web-py-0-51-tar-gz/web.py-0.51/web/\_\_init\_\_.py

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\* /opt/cola/permits/1345680871\_1655895130.0206068/0/web-py-0-51-tar-gz/web.py-0.51/web/db.py

# 1.219 chardet 4.0.0

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Any executables

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## 1.221 six 1.16.0

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## 1.222 pycparser 2.21

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pycparser -- A C parser in Python

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

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

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

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<signature of Ty Coon>, 1 April 1990  
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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



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