



# Open Source Used In Cisco Crosswork Hierarchical Controller | 3rd Party Adapters 11.0.5

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## **1.2 visual-studio-runtime 10.0**

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1. Seti UI - A subtle dark colored UI theme for Atom. (<https://github.com/jesseweed/seti-ui>)

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```
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   version 1.2.5, April 19th, 2010
```

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# 1.8 simple launcher 1.1.0.14

## 1.8.1 Available under license :

### 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 |
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| 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 |
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=====

Distutils2 Contributors

=====

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

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

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

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
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- Anthony Baxter
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- Victor Stinner
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- Nadeem Vawda

Metadata-Version: 1.0

Name: setuptools

Version: 0.6c9

Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!

Home-page: <http://pypi.org/pypi/setuptools>

Author: Phillip J. Eby

Author-email: [distutils-sig@python.org](mailto:distutils-sig@python.org)

License: PSF or ZPL

Description: =====

Installing and Using Setuptools

=====

.. contents:: \*\*Table of Contents\*\*

-----  
Installation Instructions  
-----

Windows

=====

Install setuptools using the provided ``.exe`` installer. If you've previously installed older versions of setuptools, please delete all ``setuptools\*.egg`` and ``setuptools.pth`` files from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using an ``.exe`` installer, please be sure to also *uninstall that older version* via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

Once installation is complete, you will find an ``easy\_install.exe`` program in your Python ``Scripts`` subdirectory. Be sure to add this directory to your ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems

=====

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not

specific to a particular Python version. The ``easy\_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python installation's default ``site-packages`` directory (and ``\$prefix/bin`` for scripts), please use the ``.egg``-based installation approach described in the following section.

Cygwin, Mac OS X, Linux, Other

=====

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.
2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``. Setuptools will install itself using the matching version of Python (e.g. ``python2.4``), and will place the ``easy\_install`` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as ``--prefix``, ``--install-dir``, and so on, following the ``.egg`` filename on the same command line. For example::

```
sh setuptools-0.6c9-py2.4.egg --prefix=~
```

You can use ``--help`` to get a full options list, but we recommend consulting the `EasyInstall manual`\_ for detailed instructions, especially the section on custom installation locations`\_.

.. \_EasyInstall manual: <http://peak.telecommunity.com/DevCenter/EasyInstall>  
.. \_the section on custom installation locations: <http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations>

Cygwin Note

-----

If you are trying to install setuptools for the **Windows** version of Python (as opposed to the Cygwin version that lives in ``/usr/bin``), you must make sure that an appropriate executable (``python2.3``, ``python2.4``, or ``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For example, doing the following at a Cygwin bash prompt will install setuptools



for the **\*\*Windows\*\*** Python found at ``C:\Python24``:

```
In -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4
```

## Downloads

=====

All setuptools downloads can be found at the project's home page in the Python Package Index`. Scroll to the very bottom of the page to find the links.

.. the project's home page in the Python Package Index: <http://pypi.org/pypi/setuptools>

In addition to the PyPI downloads, the development version of ``setuptools`` is available from the `Python SVN sandbox`, and in-development versions of the `0.6 branch` are available as well.

.. 0.6 branch: <http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06>

.. Python SVN sandbox: <http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev>

-----

## Using

### Setuptools and EasyInstall

-----

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

- \* `The EasyInstall user's guide and reference manual`\_
- \* `The setuptools Developer's Guide`\_
- \* `The pkg\_resources API reference`\_
- \* `Package Compatibility Notes`\_ (user-maintained)
- \* `The Internal Structure of Python Eggs`\_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, \*tested\* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`\_.

.. setuptools bug tracker: <http://bugs.python.org/setuptools/>

.. Package Compatibility Notes: <http://peak.telecommunity.com/DevCenter/PackageNotes>

.. The Internal Structure of Python Eggs: <http://peak.telecommunity.com/DevCenter/EggFormats>

.. The setuptools Developer's Guide: <http://peak.telecommunity.com/DevCenter/setuptools>

.. \_The pkg\_resources API reference: <http://peak.telecommunity.com/DevCenter/PkgResources>  
.. \_The EasyInstall user's guide and reference manual: <http://peak.telecommunity.com/DevCenter/EasyInstall>  
.. \_distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

-----  
Credits  
-----

\* The original design for the ``egg`` format and the ``pkg\_resources`` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of ``pkg\_resources``, and supplied the OS X operating system version compatibility algorithm.

\* Ian Bicking implemented many early "creature comfort" features of easy\_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

\* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy\_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

\* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

\* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application.

In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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Platform: UNKNOWN

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://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.

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
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| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.



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

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| 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                  |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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## 1.13 typeguard 4.3.0

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## 1.14 cachecontrol 0.12.11

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## 1.15 importlib\_resources 6.4.0

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## 1.22 cryptography 42.0.5

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## 1.24 packaging 21.3

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## 1.27 kerberos 1.20.2-r1

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
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
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
```

lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c

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

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

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

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

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Ty Coon, President of Vice

That's all there is to it!

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## 1.31 zlib 1.2.13-r0

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.13, October 13th, 2022

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

\*/

## 1.32 cffi 1.16.0

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## 1.33 pycparser 2.21

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pycparser -- A C parser in Python

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## 1.34 more-itertools 10.3.0

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## 1.35 krb5-conf 1.0-r2

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
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
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
```

lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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- 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  
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lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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## 1.36 chardet 5.0.0

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#####

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#####

Python SemVer library

#####

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..

Local variables:

coding: utf-8

mode: text

mode: rst

End:

vim: fileencoding=utf-8 filetype=rst :

# 1.40 jaraco-functools 4.0.1

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## 1.48 async-timeout 4.0.3

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## 1.52 ca-certificates 20241121-r1

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```
/* c_rehash.c - Create hash symlinks for certificates
 * C implementation based on the original Perl and shell versions
 *
```

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# Contributor: Sören Tempel <soeren+alpine@soeren-tempel.net>

# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=ca-certificates

pkgver=20241121

pkgrel=1

pkgdesc="Common CA certificates PEM files from Mozilla"

url="https://www.mozilla.org/en-US/about/governance/policies/security-group/certs/"

arch="all"

# There is a GPL-2.0-or-later script inside the source but it is not shipped

license="MPL-2.0 AND MIT"

makedepends\_build="perl"

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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) |
|----------------|--------------|-----------|------------|---------------------|
| 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                 |
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## 1.54 apk-tools 2.12.10-r1

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## 1.61 pyyaml 6.0.1

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## 1.69 geos 3.11.2-r0

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## 1.70 urllib3 1.26.12

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

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Any

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Version 3.1, 31 March 2009

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|                  |                           |
|------------------|---------------------------|
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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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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

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

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Reuse Bob Pearson's slice-by-8 implementation for e2fsprogs.

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July 20, 2011 Bob Pearson <rpearson at systemfabricworks.com>

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Theodore Ts'o  
23-June-2007

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```
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.
```

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

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

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Version 2, June 1991

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That's all there is to it!

```
#
# 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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## 1.85 distro 1.8.0

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Thanks!

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\* <https://github.com/SethMichaelLarson>

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- \* Being respectful of differing viewpoints and experiences
- \* Gracefully accepting constructive criticism
- \* Focusing on what is best for the community
- \* Showing empathy towards other community members

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- \* Publishing others' private information, such as a physical or electronic address, without explicit permission
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## 1.90 python-pip 23.0.1

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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:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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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#### 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  
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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 |
| 3.2   | 3.1 | 2010 | PSF | yes |

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

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#### A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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| 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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## 1.91 pyproject-hooks 1.2.0

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## 1.92 bridgeutils 1.35.0-r31

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\*/

Found in path(s):

\* /busybox-1-35-0-r31-zip/busybox/bbsuid.c

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From 8d76137506e9c65404280694e56d9a7629d58280 Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?Timo=20Ter=C3=A4s?= <timo.teras@iki.fi>

Date: Sun, 25 Oct 2015 22:21:41 +0200

Subject: [PATCH] depmod: support generating kmod binary index files

This allows to use busybox depmod, and run daemons using libkmod (or even kmod modprobe if needed).

About +1500 bytes when enabled. This patch merges some depmod code paths, so when this is disabled it shrinks the code size a little bit.

---

modutils/Config.src | 9 ++

modutils/depmod.c | 281 ++++++

modutils/modprobe.c | 15 ---

modutils/modutils.c | 31 +++++

modutils/modutils.h | 16 +++

5 files changed, 286 insertions(+), 66 deletions(-)

diff --git a/modutils/Config.src b/modutils/Config.src

index 188296814..7a4c037ad 100644

--- a/modutils/Config.src

+++ b/modutils/Config.src

@@ -152,6 +152,15 @@ config FEATURE\_MODUTILS\_ALIAS

Say Y

if unsure.

+config FEATURE\_MODUTILS\_BIN

+ bool "Support for the kmod .bin file format"

+ default n

+ depends on DEPMOD && !MODPROBE\_SMALL

+ help

+ Generate kmod compatible binary index files for .dep, .alias,

+ .symbols and .builtin files. Allows mixing use of busybox

+ modutils and kmod (binaries and library).

+

config FEATURE\_MODUTILS\_SYMBOLS

bool "Support module.symbols file"

default y

diff --git a/modutils/depmod.c b/modutils/depmod.c

index b5244fc60..26e223753 100644

--- a/modutils/depmod.c

+++ b/modutils/depmod.c

```

@@ -2,7 +2,7 @@
/*
 * depmod - generate modules.dep
 * Copyright (c) 2008 Bernhard Reutner-Fischer
- * Copyright (c) 2008 Timo Teras <timo.teras@iki.fi>
+ * Copyright (c) 2008-2015 Timo Teras <timo.teras@iki.fi>
 * Copyright (c) 2008 Vladimir Dronnikov
 *
 * Licensed under GPLv2 or later, see file LICENSE in this source tree.
@@ -26,6 +26,24 @@
#include "modutils.h"
#include <sys/utsname.h> /* uname() */

+#define INDEX_MINCHAR 32
+#define INDEX_MAXCHAR 128
+
+typedef
+struct index_node {
+ char *prefix;
+ llist_t *values;
+ struct index_node *children[INDEX_MAXCHAR-INDEX_MINCHAR];
+} index_node;
+
+struct globals {
+ module_db db;
+ index_node *root_node;
+} FIX_ALIASING;
+#define G (*ptr_to_globals)
+#define INIT_G() do { \
+ SET_PTR_TO_GLOBALS(xzalloc(sizeof(G))); \
+} while (0)
+
+
/*
 * Theory of operation:
 * - iterate over all modules and record their full path
@@ -53,18 +71,12 @@ static int FAST_FUNC parse_module(const char *fname, struct stat *sb UNUSED_PARA

for (ptr = image; ptr < image + len - 10; ptr++) {
    if (is_prefixed_with(ptr, "depends=")) {
- char *u;
-
- ptr += 8;
- for (u = ptr; *u; u++)
- if (*u == '-')
- *u = '_';
- ptr += string_to_llist(ptr, &e->deps, ",");
+ string_to_llist(replace_underscores(ptr), &e->deps, ",");
    } else if (ENABLE_FEATURE_MODUTILS_ALIAS

```

```

    && is_prefixed_with(ptr, "alias=")
) {
- llist_add_to(&e->aliases, xstrdup(ptr + 6));
- ptr += strlen(ptr);
+ llist_add_to(&e->aliases,
replace_underscores(xstrdup(ptr + 6)));
} else if (ENABLE_FEATURE_MODUTILS_SYMBOLS
    && is_prefixed_with(ptr, "__ksymtab_")
) {
@@ -74,9 +86,10 @@ static int FAST_FUNC parse_module(const char *fname, struct stat *sb UNUSED_PARAM) {
    continue;
}
- llist_add_to(&e->symbols, xstrdup(ptr));
- ptr += strlen(ptr);
- }
+ llist_add_to(&e->symbols, xasprintf("symbol:%s", ptr));
+ } else
+ continue;
+ ptr += strlen(ptr);
}
free(image);

@@ -108,12 +121,6 @@ static void order_dep_list(module_db *modules, module_entry *start, llist_t *add)
}
}

-static void xfreopen_write(const char *file, FILE *f)
-{
- if (freopen(file, "w", f) == NULL)
- bb_perror_msg_and_die("can't open '%s'", file);
-}
-
//usage:#if !ENABLE_MODPROBE_SMALL
//usage:#define depmod_trivial_usage "[-n] [-b BASE] [VERSION] [MODFILES]..."
//usage:#define depmod_full_usage "\n\n"
@@ -167,6 +174,169 @@ enum {
OPT_C = (1 << 9), /* -C,--config etc_modules_conf: ignored */
};

+/* Support for the mod binary index generation */
+
+static void index_init(const char *filename)
+{
+ if (ENABLE_FEATURE_MODUTILS_BIN) {
+ index_node *n;
+
+ n = xzalloc(sizeof(index_node));

```

```

+ n->prefix = xstrdup("");
+ G.root_node = n;
+ }
+
+ if (filename && !(option_mask32 & OPT_n)) {
+ if (freopen(filename, "w", stdout) == NULL)
+ bb_perror_msg_and_die("can't open '%s'", filename);
+ }
+}
+
+static void index_add(const char *key, char *value, const char *prefix)
+{
+ if (prefix && *prefix)
+ printf("%s%s %s\n", prefix, key, value);
+ else if (prefix)
+ printf("%s\n", value);
+
+ if (ENABLE_FEATURE_MODUTILS_BIN) {
+ index_node *cur = G.root_node, *n;
+ unsigned i = 0, j, ch;
+
+ while (1) {
+ /* Ensure node->prefix is a prefix of &str[i].
+ * If it is not already, then we must split node. */
+ for (j = 0; cur->prefix[j]; j++) {
+ ch = cur->prefix[j];
+ if (ch != key[i+j]) {
+ /* New child is copy of node with prefix[j+1..N] */
+ n = xzalloc(sizeof(index_node));
+ n->prefix
+ = xstrdup(&cur->prefix[j+1]);
+ n->values = cur->values;
+ memcpy(n->children, cur->children, sizeof(n->children));
+
+ /* Parent has prefix[0..j], child at prefix[j] */
+ cur->prefix[j] = '\0';
+ cur->values = NULL;
+ memset(cur->children, 0, sizeof(cur->children));
+ cur->children[ch-INDEX_MINCHAR] = n;
+ break;
+ }
+ }
+ i += j;
+
+ ch = key[i];
+ if (ch == 0)
+ break;
+ }

```

```

+ if (ch < INDEX_MINCHAR || ch >= INDEX_MAXCHAR)
+   bb_simple_error_msg_and_die("bad module name");
+
+ ch -= INDEX_MINCHAR;
+ if (!cur->children[ch]) {
+   n = xzalloc(sizeof(index_node));
+   cur->children[ch] = n;
+   n->prefix = xstrdup(&key[i+1]);
+   cur = n;
+   break;
+ }
+
+ /* Descend into child node and continue */
+ cur = cur->children[ch];
+ i++;
+ }
+
+ llist_add_to(&cur->values, value);
+ }
+}
+
+static uint32_t index_write_node(FILE *out, index_node *n, void (*freeit)(void *data))
+{
+  uint32_t
+  child_offs[INDEX_MAXCHAR-INDEX_MINCHAR];
+  uint32_t offset;
+  uint8_t first = 255, last = 0;
+  unsigned i;
+
+  for (i = 0; i < INDEX_MAXCHAR-INDEX_MINCHAR; i++) {
+    child_offs[i] = 0;
+    if (!n->children[i])
+      continue;
+    child_offs[i] = index_write_node(out, n->children[i], freeit);
+    if (first > INDEX_MAXCHAR)
+      first = i;
+    last = i;
+  }
+
+  offset = ftell(out);
+
+  if (n->prefix[0]) {
+    fputs(n->prefix, out);
+    fputc('\0', out);
+    offset |= INDEX_NODE_PREFIX;
+  }
+
+  if (first < INDEX_MAXCHAR) {

```

```

+ fputc(first + INDEX_MINCHAR, out);
+ fputc(last + INDEX_MINCHAR, out);
+ fwrite(child_offs + first, sizeof(uint32_t), last - first + 1, out);
+ offset |= INDEX_NODE_CHILDS;
+ }
+
+ if (n->values) {
+   const llist_t *v;
+   unsigned int cnt;
+   uint32_t u;
+
+   n->values = llist_rev(n->values);
+   for (v = n->values, cnt = 0; v != NULL; v = v->link, cnt++);
+   u = htonl(cnt);
+   fwrite(&u, sizeof(u), 1, out);
+   for (v = n->values, cnt = 0; v != NULL; v = v->link, cnt++) {
+     u
+     = htonl(cnt);
+     fwrite(&u, sizeof(u), 1, out);
+     fputs(v->data, out);
+     fputc('\0', out);
+   }
+   offset |= INDEX_NODE_VALUES;
+ }
+
+ llist_free(n->values, freeit);
+ free(n->prefix);
+ free(n);
+
+ return htonl(offset);
+}
+
+static void index_dump(const char *filename, int deps_file)
+{
+   if (ENABLE_FEATURE_MODUTILS_BIN) {
+     FILE *out;
+     uint32_t header[3] = {
+       htonl(INDEX_MAGIC),
+       htonl(INDEX_VERSION),
+     };
+
+     if (option_mask32 & OPT_n)
+       filename = "/dev/null";
+     else
+       filename = xasprintf("tmp.%s.bin", filename);
+
+     out = xfopen_for_write(filename);
+     fwrite(header, sizeof(uint32_t), 3, out);

```

```

+ header[2] = index_write_node(out, G.root_node, deps_file ? free : 0);
+ rewind(out);
+ G.root_node = NULL;
+ fwrite(header, sizeof(uint32_t), 3, out);
+ if (fclose(out)) {
+   remove(filename);
+   bb_simple_error_msg_and_die(bb_msg_write_error);
+ }
+ /* .bin files are mmap'ed; not renaming it may crash
+  * long standing daemon using libkmod */
+ rename_or_warn(filename,
+   filename + 4);
+ }
+}
+
int depmod_main(int argc, char **argv) MAIN_EXTERNALLY_VISIBLE;
int depmod_main(int argc UNUSED_PARAM, char **argv)
{
@@ -178,6 +348,8 @@ int depmod_main(int argc UNUSED_PARAM, char **argv)
  unsigned i;
  int tmp;

+ INIT_G();
+
  getopt32(argv, "aAb:eF:nruqC:", &moddir_base, NULL, NULL);
  argv += optind;

@@ -210,53 +382,60 @@ int depmod_main(int argc UNUSED_PARAM, char **argv)
}

/* Generate dependency and alias files */
- if (!(option_mask32 & OPT_n))
-   xfreopen_write(CONFIG_DEFAULT_DEPMOD_FILE, stdout);
-
+ index_init(CONFIG_DEFAULT_DEPMOD_FILE);
+ moddb_foreach_module(&modules, m, i) {
-   printf("%s:", m->name);
-
+   char *buf = xasprintf("%s:", m->name);
+   order_dep_list(&modules, m, m->deps);
+
+   while (m->dnnext != m) {
+     dep = m->dnnext;
-     printf(" %s", dep->name);
-
+     buf = gather_options_str(buf, dep->name);
+     /* unlink current entry */
+     dep->dnnext->dprev = dep->dprev;

```



```

dep->dprev->dnext = dep->dnext;
dep->dnext = dep->dprev = dep;
}
- bb_putchar("\n");
+ index_add(m->modname, buf, "");
}
-
-#if ENABLE_FEATURE_MODUTILS_ALIAS
- if (!(option_mask32 & OPT_n))
-  xfreopen_write("modules.alias", stdout);
- moddb_foreach_module(&modules, m, i) {
-  while (m->aliases) {
-   /*
-    * Last word used to be a basename
-    * (filename with path and .ko.* stripped)
-    * at the time of module-init-tools 3.4.
-    * kmod v.12 uses module name, i.e., s/-/_/g.
-    */
-   printf("alias %s %s\n",
-    (char*)llist_pop(&m->aliases),
-    m->modname);
+ index_dump(CONFIG_DEFAULT_DEPMOD_FILE, 1);
+
+ if (ENABLE_FEATURE_MODUTILS_ALIAS) {
+  index_init("modules.alias");
+  moddb_foreach_module(&modules, m, i) {
+   while (m->aliases) {
+    /*
+     * Last word used to be a basename
+     * (filename with path and .ko.* stripped)
+     * at the time of module-init-tools 3.4.
+     * kmod v.12 uses module name, i.e., s/-/_/g.
+     */
+    index_add((char*)llist_pop(&m->aliases), m->modname,
+ "alias ");
+   }
+  }
+  index_dump("modules.alias", 0);
+ }
-#endif
-#if ENABLE_FEATURE_MODUTILS_SYMBOLS
- if (!(option_mask32 & OPT_n))
-  xfreopen_write("modules.symbols", stdout);
- moddb_foreach_module(&modules, m, i) {
-  while (m->symbols) {
-   printf("alias symbol:%s %s\n",
-    (char*)llist_pop(&m->symbols),
-    m->modname);

```

```

+ if (ENABLE_FEATURE_MODUTILS_SYMBOLS) {
+   index_init("modules.symbols");
+   moddb_foreach_module(&modules, m, i) {
+     while (m->symbols) {
+       index_add((char*)llist_pop(&m->symbols), m->modname, "alias ");
+     }
+   }
+   index_dump("modules.symbols", 0);
+ }
+ if (ENABLE_FEATURE_MODUTILS_BIN) {
+   char line[PATH_MAX], modname[MODULE_NAME_LEN];
+   FILE *in;
+
+   index_init(NULL);
+   in = xfopen_for_read("modules.builtin");
+   while (fgets(line, sizeof(line), in) != NULL) {
+     filename2modname(line, modname);
+     index_add(modname, (char *) "", 0);
+   }
+   fclose(in);
+   index_dump("modules.builtin", 0);
+ }
-#endif

```

```

if (ENABLE_FEATURE_CLEAN_UP)
    moddb_free(&modules);
diff --git a/modutils/modprobe.c b/modutils/modprobe.c
index 0a372a049..20a60c1a6 100644
--- a/modutils/modprobe.c
+++ b/modutils/modprobe.c
@@ -192,21 +192,6 @@ struct globals {

```

```

static int read_config(const char *path);

```

```

-static char *gather_options_str(char *opts, const char *append)
-{
- /* Speed-optimized. We call gather_options_str many times. */
- if (append) {
-   if (opts == NULL) {
-     opts = xstrdup(append);
-   } else {
-     int optlen = strlen(opts);
-     opts = xrealloc(opts, optlen + strlen(append) + 2);
-     sprintf(opts + optlen, " %s", append);
-   }
- }
- return opts;
-}

```

```

-
static struct module_entry *get_or_add_modentry(const char *module)
{
    return moddb_get_or_create(&G.db, module);
}
diff --git a/modutils/modutils.c b/modutils/modutils.c
index 6f7cd9721..257089af4 100644
--- a/modutils/modutils.c
+++ b/modutils/modutils.c
@@ -66,6 +66,21 @@ void FAST_FUNC moddb_free(module_db *db)
 }
 }

+char * FAST_FUNC gather_options_str(char *opts, const
+char *append)
+{
+ /* Speed-optimized. We call gather_options_str many times. */
+ if (append) {
+ if (opts == NULL) {
+ opts = xstrdup(append);
+ } else {
+ int optlen = strlen(opts);
+ opts = xrealloc(opts, optlen + strlen(append) + 2);
+ sprintf(opts + optlen, " %s", append);
+ }
+ }
+ return opts;
+}
+
void FAST_FUNC replace(char *s, char what, char with)
{
    while (*s) {
@@ -75,6 +90,22 @@ void FAST_FUNC replace(char *s, char what, char with)
 }
 }

+char* FAST_FUNC replace_underscores(char *s)
+{
+ int i;
+ for (i = 0; s[i]; i++) {
+ switch (s[i]) {
+ case '-':
+ s[i] = '_';
+ break;
+ case '[':
+ i += strcspn(&s[i], "[]");
+ break;
+ }
+ }
+ }

```

```

+ return s;
+}
+
int FAST_FUNC string_to_llist(char *string, llist_t **llist, const char *delim)
{
    char *tok;
diff --git a/modutils/modutils.h b/modutils/modutils.h
index 4a702e97c..73e816028 100644
--- a/modutils/modutils.h
+++ b/modutils/modutils.h
@@ -18,6 +18,20 @@ PUSH_AND_SET_FUNCTION_VISIBILITY_TO_HIDDEN
#define MODULE_NAME_LEN 256
#define MODULE_HASH_SIZE 256

+/* .bin index format definitions */
+#define INDEX_MAGIC 0xB007F457
+#define INDEX_VERSION_MAJOR 0x0002
+#define INDEX_VERSION_MINOR 0x0001
+#define INDEX_VERSION ((INDEX_VERSION_MAJOR<<16)|INDEX_VERSION_MINOR)
+
+enum node_offset {
+ INDEX_NODE_FLAGS = 0xF0000000, /* Flags in high nibble */
+ INDEX_NODE_PREFIX = 0x80000000,
+ INDEX_NODE_VALUES = 0x40000000,
+ INDEX_NODE_CHILDS = 0x20000000,
+ INDEX_NODE_MASK = 0x0FFFFFFF, /* Offset value */
+};
+
typedef struct module_entry {
    struct module_entry *next;
    char *name, *modname;
@@ -47,9 +61,9 @@ module_entry *moddb_get(module_db *db, const char *s) FAST_FUNC;
module_entry *moddb_get_or_create(module_db *db, const char *s) FAST_FUNC;
void moddb_free(module_db *db) FAST_FUNC;

+char *gather_options_str(char *opts, const char *append) FAST_FUNC;
void replace(char *s, char what, char with) FAST_FUNC;
+char *replace_underscores(char *s) FAST_FUNC;
int string_to_llist(char
    *string, llist_t **llist, const char *delim) FAST_FUNC;
char *filename2modname(const char *filename, char *modname) FAST_FUNC;
#if ENABLE_FEATURE_CMDLINE_MODULE_OPTIONS

Found in path(s):
* /busybox-1-35-0-r31-zip/busybox/0009-depmod-support-generating-kmod-binary-index-files.patch

```

# 1.93 readline 8.2.1-r1

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```
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* C implementation based on the original Perl and shell versions
*
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```
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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 <https://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 <https://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 <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

Footnotes:

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

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

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The End

## 1.106 python-pip 22.3.1

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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:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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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\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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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.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.2 | 2002  | PSF       | yes |     |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
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| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
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| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 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 |
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| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 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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## 1.107 backports.tarfile 1.2.0

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## 1.108 python-setuptools 70.3.0

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`validate-pyproject`

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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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Upstream-Name: e2fsprogs

Upstream-Contact: Theodore Ts'o <tytso@mit.edu>

Source: <http://sourceforge.net/projects/e2fsprogs>

Comment:

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

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debugfs/do\_journal.c

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Theodore Ts'o  
23-June-2007

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```
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```

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```
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```

```
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```

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

That's all there is to it!

```
#  
# 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): $(OBS)
```

```
(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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## 1.113 marshmallow-enum 1.5.1

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## 1.114 e2fsprogs 1.46.5-r4

### 1.114.1 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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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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#

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

#

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

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

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

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM)
```

```
-rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

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

- trivial database library - private includes

-

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Theodore Ts'o  
23-June-2007

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

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

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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## 1.115 importlib\_resources 6.4.5

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## 1.116 ca-certificates 20220614-r4

### 1.116.1 Available under license :

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/\* c\_rehash.c - Create hash symlinks for certificates

\* C implementation based on the original Perl and shell versions

\*

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@var{signature of Ty Coon}, 1 April 1990

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@page  
@heading Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively

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

```
@smallexample
@var{one line to give the program's name
and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}
```

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@end smallexample

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

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

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

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
```

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

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*
/massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/View.hpp
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* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/proto/swim.proto
```

## 1.124 util-linux 2.38.1-r1

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

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

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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) 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



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

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

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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.

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The

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principal author, although it includes many contributions from others.

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

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

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

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|----------------|--------------|-----------|------------|---------------------|
| 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                 |
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|-------|-------|------|-----|-----|
| 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 |
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
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| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |

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

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## 1.130 python-setuptools 71.0.3

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

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

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# 1.140 alpine-keys 2.4-r1

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# 1.141 autocommand 2.2.2

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## 1.142 jaraco.text 3.12.1

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## 1.143 distlib 0.3.6

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#### A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

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

|       |           |           |     |     |
|-------|-----------|-----------|-----|-----|
| 2.0.1 | 2.0+1.6.1 | 2001      | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001      | PSF | yes |
| 2.2   | 2.1.1     | 2001      | PSF | yes |
| 2.1.2 | 2.1.1     | 2002      | PSF | yes |
| 2.1.3 |           |           |     |     |
| 2.1.2 | 2002      | PSF       | yes |     |
| 2.2.1 | 2.2       | 2002      | PSF | yes |
| 2.2.2 | 2.2.1     | 2002      | PSF | yes |
| 2.2.3 | 2.2.2     | 2003      | PSF | yes |
| 2.3   | 2.2.2     | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3       | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1     | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2     | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3     | 2004      | PSF | yes |
| 2.3.5 | 2.3.4     | 2005      | PSF | yes |
| 2.4   | 2.3       | 2004      | PSF | yes |
| 2.4.1 | 2.4       | 2005      | PSF | yes |
| 2.4.2 | 2.4.1     | 2005      | PSF | yes |
| 2.4.3 | 2.4.2     | 2006      | PSF | yes |
| 2.4.4 | 2.4.3     | 2006      | PSF | yes |
| 2.5   | 2.4       | 2006      | PSF | yes |
| 2.5.1 | 2.5       | 2007      | PSF | yes |
| 2.5.2 | 2.5.1     | 2008      | PSF | yes |
| 2.5.3 | 2.5.2     | 2008      | PSF | yes |
| 2.6   | 2.5       | 2008      | PSF | yes |
| 2.6.1 | 2.6       | 2008      | PSF | yes |
| 2.6.2 | 2.6.1     | 2009      | PSF | yes |
| 2.6.3 | 2.6.2     | 2009      | PSF | yes |
| 2.6.4 | 2.6.3     | 2009      | PSF | yes |
| 2.6.5 | 2.6.4     | 2010      | PSF | yes |
| 3.0   | 2.6       | 2008      | PSF | yes |
| 3.0.1 | 3.0       | 2009      | PSF | yes |
| 3.1   | 3.0.1     | 2009      | PSF | yes |
| 3.1.1 | 3.1       | 2009      | PSF | yes |
| 3.1.2 | 3.1       | 2010      | PSF | yes |
| 3.2   | 3.1       | 2010      | PSF | yes |

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

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"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

```
include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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## 1.146 toml 2.0.1

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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## 1.154 libffi 3.4.4-r0

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## 1.155 alpine-baselayout 3.4.3-r1

### 1.155.1 Available under license :

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```
/*  
* Create mount directories in fstab  
*  
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*  
* usage: mkmntdirs [fstab]
```

\*  
\*/

Found in path(s):

\* /alpine-baselayout-master/zip/alpine-baselayout-master/src/mkmntdirs.c

# 1.156 python-setuptools 65.5.1

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a

non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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

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```
python -m validate_pyproject.pre_compile --output-dir=setuputils/config/_validate_pyproject --enable-plugins
setuputils distutils --very-verbose
```

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject` (or to the relevant plugin repository)

- <https://github.com/abravalheri/validate-pyproject/issues>



\*\*\*

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- `fastjsonschema\_exceptions.py`:
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`fastjsonschema`  
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`validate-pyproject`

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 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
 */
# Contributor: Sheila Aman <sheila@vulpine.house>
# Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>
pkgname=perl-software-license
_pkgreal=Software-License
_author=LEONT
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=0.103014
pkgrel=0
pkgdesc="Perl module for generating prefilled license text"
url="https://metacpan.org/pod/Software::License"
arch="noarch"
license="Artistic-1.0-Perl"
```

```

depends="perl perl-data-section perl-text-template perl-try-tiny"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_author}/${_pkgreal}-${pkgver}.tar.gz"
builddir="${srcdir}/${_pkgreal}-${pkgver}"

build() {
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
    make
}

check() {
    make test
}

package() {
    make DESTDIR="$pkgdir" install
    find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="8012f9d3e8671bdcba52f6790f6cd2f6a0510883bb40115c222c8c685aed6697ba33b3f9df8d853841cd
2eef0806d919c9038b6ba7b1057f475b3b63457069d
Software-License-0.103014.tar.gz"
# Maintainer: Adelie Platform Group <adelie-devel@lists.adelielinux.org>
pkgname=bsd-compat-headers
pkgver=0.7.1
pkgrel=1
pkgdesc="Compatibility files for building BSD software"
url=" "
arch="noarch"
options="!check" # Just header files.
license="BSD-2-Clause AND BSD-3-Clause"
depends=""
makedepends=""
subpackages=""
source="sys-cdefs.h
sys-queue.h
sys-tree.h
"

package() {
    mkdir -p "$pkgdir"
    case "$CLIBC" in
        musl)
            install -D "$srcdir"/sys-cdefs.h "$pkgdir"/usr/include/sys/cdefs.h
            install -D "$srcdir"/sys-queue.h "$pkgdir"/usr/include/sys/queue.h
            install -D "$srcdir"/sys-tree.h "$pkgdir"/usr/include/sys/tree.h
            ;;
    esac
}

```

```
esac  
}
```

```
sha512sums="8c3fddd73b696a38e633953715c79c47703739be27ee085fc6c960a57b6746ca05bf6406f7e6126cc1a13  
204254fd5830afb566624e1f298f4d6b58216013c28 sys-cdefs.h  
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86  
11ea33987d4faba37dde5ce6da0750 sys-queue.h  
07cb70f2f0ddb31e23dd913c6f561fc9885667c5803fdf3a559676c99d08834b4104589bacb5d17b4a0b379c68c81a1cf  
3173832b3da33a7b936fa7b93706844  
sys-tree.h"  
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# Contributor: Sheila Aman <sheila@vulpine.house>
# Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>
pkgname=perl-string-copyright
_pkgreal=String-Copyright
_author=JONASS
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=0.003006
pkgrel=0
pkgdesc="Perl module for normalizing copyright text"
url="https://metacpan.org/pod/String::Copyright"
arch="noarch"
license="GPL-3.0+"
depends="perl perl-exporter-tiny perl-number-range"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_author}/${_pkgreal}-${pkgver}.tar.gz"
builddir="$srcdir/${_pkgreal}-${pkgver}"
```

```
build() {
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
    make
}
```

```
check() {
    make test
}
```

```
package() {
    make DESTDIR="$pkgdir" install
}
```

```

find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="7852d96cbe465dde14b4c093f77374b530967412ef95a98703fe838511e405ea9744e4dbfa314bc5a33fc
23b160d8a4866654ad60da1bfb07853263f1c11cd3f String-Copyright-0.003006.tar.gz"
# Contributor: Sheila Aman <sheila@vulpine.house>
# Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>
pkgname=perl-regexp-pattern-license
_pkgreal=Regexp-Pattern-License
_author=JONASS
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=3.4.0
pkgrel=0
pkgdesc="Perl module for regex-matching legal licenses"
url="https://metacpan.org/pod/Regexp::Pattern::License"
arch="noarch"
license="GPL-3.0+"
depends="perl perl-re-engine-re2 perl-regexp-pattern perl-strictures
perl-test-regexp-pattern perl-try-tiny"
checkdepends="perl-test-requires"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_author}/${_pkgreal}-v${pkgver}.tar.gz"
buildid="$srcdir/${_pkgreal}-v${pkgver}"

build() {
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
    make
}

check() {
    make test
}

package() {
    make DESTDIR="$pkgdir" install
    find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="5524535f8eebe6cc2ce2065bae1f726b9a2717c34262df2ddd9106464dcfbaeb67eb310679bb636e72866
9f17041e4f101c7fb241a8e07a6cf3dc6fb3ae88e12
Regexp-Pattern-License-v3.4.0.tar.gz"
# Maintainer:
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=6
pkgdesc="Library for high-performance 2D graphics"

```

```
url="https://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0+"
depends=""
makedepends=""
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"
builddir="$srcdir"/libart_lgpl-$pkgver
```

```
prepare() {
    default_prepare
    update_config_sub
}
```

```
build() {
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr
    make
}
```

```
package() {
    make DESTDIR="$pkgdir" install
}
```

```
sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"
```

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Developed by: Adlie Linux Team  
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## 1.158 bridgeutils 1.36.1-r7

### 1.158.1 Available under license :

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

From 4eb6d6b1f36e9bf976549f3071beb1192e11c4ca Mon Sep 17 00:00:00 2001  
From: =?UTF-8?q?Timo=20Ter=C3=A4s?= <timo.teras@iki.fi>  
Date: Sun, 25 Oct 2015 12:33:58 +0200  
Subject: [PATCH] depmod: support generating kmod binary index files  
MIME-Version: 1.0  
Content-Type: text/plain; charset=UTF-8  
Content-Transfer-Encoding: 8bit

This allows to use busybox depmod, and run daemons using libkmod (or  
even kmod modprobe if needed).

About +1500 bytes when enabled. This patch merges some depmod code  
paths, so when this is disabled it shrinks the code size a little bit.

```
---
modutils/Config.src | 9 ++
modutils/depmod.c | 281 ++++++-----
modutils/modprobe.c | 15 ---
modutils/modutils.c | 31 +++++
modutils/modutils.h | 16 +++
5 files changed, 286 insertions(+), 66 deletions(-)

diff --git a/modutils/Config.src b/modutils/Config.src
index 188296814..7a4c037ad 100644
--- a/modutils/Config.src
+++
```

b/modutils/Config.src

@@ -152,6 +152,15 @@ config FEATURE\_MODUTILS\_ALIAS

Say Y if unsure.

```
+config FEATURE_MODUTILS_BIN
+ bool "Support for the kmod .bin file format"
+ default n
+ depends on DEPMOD && !MODPROBE_SMALL
+ help
+   Generate kmod compatible binary index files for .dep, .alias,
+   .symbols and .builtin files. Allows mixing use of busybox
+   modutils and kmod (binaries and library).
+
config FEATURE_MODUTILS_SYMBOLS
 bool "Support module.symbols file"
 default y
diff --git a/modutils/depmod.c b/modutils/depmod.c
index bb42bbefe..9b034db0a 100644
--- a/modutils/depmod.c
+++ b/modutils/depmod.c
@@ -2,7 +2,7 @@
/*
 * depmod - generate modules.dep
 * Copyright (c) 2008 Bernhard Reutner-Fischer
- * Copyright (c) 2008 Timo Teras <timo.teras@iki.fi>
+ * Copyright (c) 2008-2015 Timo Teras <timo.teras@iki.fi>
 * Copyright (c) 2008 Vladimir Dronnikov
 *
 * Licensed under GPLv2 or later, see file LICENSE in this source tree.
@@ -25,6 +25,24 @@
#include "modutils.h"
#include <sys/utsname.h> /* uname() */

#define INDEX_MINCHAR 32
#define INDEX_MAXCHAR 128
+
+typedef struct index_node {
+ char *prefix;
+ llist_t *values;
+ struct index_node *children[INDEX_MAXCHAR-INDEX_MINCHAR];
+} index_node;
+
+struct globals {
+ module_db db;
+ index_node *root_node;
+} FIX_ALIASING;
#define G (*ptr_to_globals)
```

```

+ #define INIT_G() do { \
+ SET_PTR_TO_GLOBALS(xzalloc(sizeof(G))); \
+ } while (0)
+
+
+/*
+ * Theory of operation:
+ * - iterate over all modules and record their full path
@@ -53,18 +71,12 @@ static int FAST_FUNC parse_module(struct recursive_state *state,

for (ptr = image; ptr < image + len - 10; ptr++) {
    if (is_prefixed_with(ptr, "depends=")) {
-   char *u;
-
-       ptr += 8;
-       for (u = ptr; *u; u++)
-           if (*u == '-')
-               *u = '_';
-       ptr += string_to_llist(ptr, &e->deps, ",");
+   string_to_llist(replace_underscores(ptr), &e->deps, ",");
    } else if (ENABLE_FEATURE_MODUTILS_ALIAS
        && is_prefixed_with(ptr, "alias=")
    ) {
-   llist_add_to(&e->aliases,
-       xstrdup(ptr + 6));
-   ptr += strlen(ptr);
+   llist_add_to(&e->aliases, replace_underscores(xstrdup(ptr + 6)));
    } else if (ENABLE_FEATURE_MODUTILS_SYMBOLS
        && is_prefixed_with(ptr, "__ksymtab_")
    ) {
@@ -74,9 +86,10 @@ static int FAST_FUNC parse_module(struct recursive_state *state,
    ) {
        continue;
    }
-   llist_add_to(&e->symbols, xstrdup(ptr));
-   ptr += strlen(ptr);
-   }
+   llist_add_to(&e->symbols, xasprintf("symbol:%s", ptr));
+   } else
+   continue;
+   ptr += strlen(ptr);
    }
    free(image);

@@ -108,12 +121,6 @@ static void order_dep_list(module_db *modules, module_entry *start, llist_t *add
    }
}

-static void xfreopen_write(const char *file, FILE *f)

```

```

- {
- if (freopen(file, "w", f) == NULL)
- bb_perror_msg_and_die("can't open '%s'", file);
- }
-
//usage:#if !ENABLE_MODPROBE_SMALL
//usage:#define depmod_trivial_usage "[-n] [-b BASE] [VERSION] [MODFILES]..."
//usage:#define depmod_full_usage "\n\n"
@@ -167,6 +174,169 @@ enum {
OPT_C
= (1 << 9), /* -C, --config etc_modules_conf: ignored */
};

+/* Support for the mod binary index generation */
+
+static void index_init(const char *filename)
+{
+ if (ENABLE_FEATURE_MODUTILS_BIN) {
+ index_node *n;
+
+ n = xzalloc(sizeof(index_node));
+ n->prefix = xstrdup("");
+ G.root_node = n;
+ }
+
+ if (filename && !(option_mask32 & OPT_n)) {
+ if (freopen(filename, "w", stdout) == NULL)
+ bb_perror_msg_and_die("can't open '%s'", filename);
+ }
+
+
+static void index_add(const char *key, char *value, const char *prefix)
+{
+ if (prefix && *prefix)
+ printf("%s%s %s\n", prefix, key, value);
+ else if (prefix)
+ printf("%s\n", value);
+
+ if (ENABLE_FEATURE_MODUTILS_BIN) {
+ index_node *cur = G.root_node, *n;
+ unsigned i = 0, j, ch;
+
+ while (1) {
+ /* Ensure node->prefix is a prefix of &str[i].
+ * If it is not already, then we must split node. */
+ for (j = 0; cur->prefix[j]; j++) {
+ ch = cur->prefix[j];
+ if (ch != key[i+j]) {

```

```

+  /* New child
+  is copy of node with prefix[j+1..N] */
+  n = xzalloc(sizeof(index_node));
+  n->prefix = xstrdup(&cur->prefix[j+1]);
+  n->values = cur->values;
+  memcpy(n->children, cur->children, sizeof(n->children));
+
+  /* Parent has prefix[0..j], child at prefix[j] */
+  cur->prefix[j] = '\0';
+  cur->values = NULL;
+  memset(cur->children, 0, sizeof(cur->children));
+  cur->children[ch-INDEX_MINCHAR] = n;
+  break;
+ }
+ }
+ i += j;
+
+ ch = key[i];
+ if (ch == 0)
+   break;
+
+ if (ch < INDEX_MINCHAR || ch >= INDEX_MAXCHAR)
+   bb_simple_error_msg_and_die("bad module name");
+
+ ch -= INDEX_MINCHAR;
+ if (!cur->children[ch]) {
+   n = xzalloc(sizeof(index_node));
+   cur->children[ch] = n;
+   n->prefix = xstrdup(&key[i+1]);
+   cur = n;
+   break;
+ }
+
+ /* Descend into child node and continue */
+ cur = cur->children[ch];
+ i++;
+ }
+
+ llist_add_to(&cur->values, value);
+ }
+}
+
+static uint32_t index_write_node(FILE *out,
+ index_node *n, void (*freeit)(void *data))
+{
+  uint32_t child_offs[INDEX_MAXCHAR-INDEX_MINCHAR];
+  uint32_t offset;
+  uint8_t first = 255, last = 0;

```

```

+ unsigned i;
+
+ for (i = 0; i < INDEX_MAXCHAR-INDEX_MINCHAR; i++) {
+   child_offs[i] = 0;
+   if (!n->children[i])
+     continue;
+   child_offs[i] = index_write_node(out, n->children[i], freeit);
+   if (first > INDEX_MAXCHAR)
+     first = i;
+   last = i;
+ }
+
+ offset = ftell(out);
+
+ if (n->prefix[0]) {
+   fputs(n->prefix, out);
+   fputc('\0', out);
+   offset |= INDEX_NODE_PREFIX;
+ }
+
+ if (first < INDEX_MAXCHAR) {
+   fputc(first + INDEX_MINCHAR, out);
+   fputc(last + INDEX_MINCHAR, out);
+   fwrite(child_offs + first, sizeof(uint32_t), last - first + 1, out);
+   offset |= INDEX_NODE_CHILDS;
+ }
+
+ if (n->values) {
+   const llist_t *v;
+   unsigned int cnt;
+   uint32_t u;
+
+   n->values = llist_rev(n->values);
+   for (v = n->values, cnt = 0; v != NULL; v = v->link, cnt++);
+   u = htonl(cnt);
+   fwrite(&u, sizeof(u), 1, out);
+   for (v
+       = n->values, cnt = 0; v != NULL; v = v->link, cnt++) {
+     u = htonl(cnt);
+     fwrite(&u, sizeof(u), 1, out);
+     fputs(v->data, out);
+     fputc('\0', out);
+   }
+   offset |= INDEX_NODE_VALUES;
+ }
+
+ llist_free(n->values, freeit);
+ free(n->prefix);

```

```

+ free(n);
+
+ return htonl(offset);
+}
+
+static void index_dump(const char *filename, int deps_file)
+{
+ if (ENABLE_FEATURE_MODUTILS_BIN) {
+ FILE *out;
+ uint32_t header[3] = {
+   htonl(INDEX_MAGIC),
+   htonl(INDEX_VERSION),
+ };
+
+ if (option_mask32 & OPT_n)
+   filename = "/dev/null";
+ else
+   filename = xasprintf("tmp.%s.bin", filename);
+
+ out = xfopen_for_write(filename);
+ fwrite(header, sizeof(uint32_t), 3, out);
+ header[2] = index_write_node(out, G.root_node, deps_file ? free : 0);
+ rewind(out);
+ G.root_node = NULL;
+ fwrite(header, sizeof(uint32_t), 3, out);
+ if (fclose(out)) {
+   remove(filename);
+   bb_simple_error_msg_and_die(bb_msg_write_error);
+ }
+ /* .bin files are mmap'ed; not renaming it
+    may crash
+   * long standing daemon using libkmod */
+ rename_or_warn(filename, filename + 4);
+ }
+}
+
+int depmod_main(int argc, char **argv) MAIN_EXTERNALLY_VISIBLE;
int depmod_main(int argc UNUSED_PARAM, char **argv)
{
@@ -178,6 +348,8 @@ int depmod_main(int argc UNUSED_PARAM, char **argv)
  unsigned i;
  int tmp;

+ INIT_G();
+
  getopt32(argv, "aAb:eF:nruqC:", &moddir_base, NULL, NULL);
  argv += optind;

```

```

@@ -211,53 +383,60 @@ int depmod_main(int argc UNUSED_PARAM, char **argv)
}

/* Generate dependency and alias files */
- if (!(option_mask32 & OPT_n))
- xfreopen_write(CONFIG_DEFAULT_DEPMOD_FILE, stdout);
-
+ index_init(CONFIG_DEFAULT_DEPMOD_FILE);
moddb_foreach_module(&modules, m, i) {
- printf("%s:", m->name);
-
+ char *buf = xasprintf("%s:", m->name);
order_dep_list(&modules, m, m->deps);
+
while (m->dnext != m) {
dep = m->dnext;
- printf(" %s", dep->name);
-
+ buf = gather_options_str(buf, dep->name);
/* unlink current entry */
dep->dnext->dprev
= dep->dprev;
dep->dprev->dnext = dep->dnext;
dep->dnext = dep->dprev = dep;
}
- bb_putchar('\n');
+ index_add(m->modname, buf, "");
}
-
-#if ENABLE_FEATURE_MODUTILS_ALIAS
- if (!(option_mask32 & OPT_n))
- xfreopen_write("modules.alias", stdout);
- moddb_foreach_module(&modules, m, i) {
- while (m->aliases) {
- /*
-  * Last word used to be a basename
-  * (filename with path and .ko.* stripped)
-  * at the time of module-init-tools 3.4.
-  * kmod v.12 uses module name, i.e., s/_/_g.
-  */
- printf("alias %s %s\n",
- (char*)llist_pop(&m->aliases),
- m->modname);
+ index_dump(CONFIG_DEFAULT_DEPMOD_FILE, 1);
+
+ if (ENABLE_FEATURE_MODUTILS_ALIAS) {
+ index_init("modules.alias");
+ moddb_foreach_module(&modules, m, i) {

```



```

+ while (m->aliases) {
+     /*
+      * Last word used to be a basename
+      * (filename with path and .ko.* stripped)
+      * at the time of module-init-tools 3.4.
+      * kmod v.12 uses module name, i.e., s/-/_/g.
+      */
+     index_add((char*)llist_pop(&m->aliases),
+ m->modname, "alias ");
+ }
+ }
+ index_dump("modules.alias", 0);
+ }
-#endif
-#if ENABLE_FEATURE_MODUTILS_SYMBOLS
- if (!(option_mask32 & OPT_n))
-  xfreopen_write("modules.symbols", stdout);
- moddb_foreach_module(&modules, m, i) {
-  while (m->symbols) {
-   printf("alias symbol:%s %s\n",
-    (char*)llist_pop(&m->symbols),
-    m->modname);
+ if (ENABLE_FEATURE_MODUTILS_SYMBOLS) {
+  index_init("modules.symbols");
+  moddb_foreach_module(&modules, m, i) {
+   while (m->symbols) {
+    index_add((char*)llist_pop(&m->symbols), m->modname, "alias ");
+   }
+  }
+  index_dump("modules.symbols", 0);
+ }
+ if (ENABLE_FEATURE_MODUTILS_BIN) {
+  char line[PATH_MAX], modname[MODULE_NAME_LEN];
+  FILE *in;
+
+  index_init(NULL);
+  in = xfopen_for_read("modules.builtin");
+  while (fgets(line, sizeof(line), in) != NULL) {
+   filename2modname(line, modname);
+   index_add(modname, (char *) "", 0);
+  }
+  fclose(in);
+  index_dump("modules.builtin",
0);
+ }
-#endif

if (ENABLE_FEATURE_CLEAN_UP)

```

```

    moddb_free(&modules);
diff --git a/modutils/modprobe.c b/modutils/modprobe.c
index 235706fd5..604d9e6b5 100644
--- a/modutils/modprobe.c
+++ b/modutils/modprobe.c
@@ -191,21 +191,6 @@ struct globals {

static int read_config(const char *path);

-static char *gather_options_str(char *opts, const char *append)
-{
- /* Speed-optimized. We call gather_options_str many times. */
- if (append) {
- if (opts == NULL) {
- opts = xstrdup(append);
- } else {
- int optlen = strlen(opts);
- opts = xrealloc(opts, optlen + strlen(append) + 2);
- sprintf(opts + optlen, " %s", append);
- }
- }
- return opts;
-}
-
static struct module_entry *get_or_add_modentry(const char *module)
{
    return moddb_get_or_create(&G.db, module);
diff --git a/modutils/modutils.c b/modutils/modutils.c
index 037d609e4..502ad5422 100644
--- a/modutils/modutils.c
+++ b/modutils/modutils.c
@@ -67,6 +67,21 @@ void FAST_FUNC moddb_free(module_db *db)
}
}

+char * FAST_FUNC gather_options_str(char *opts, const char *append)
+{
+ /* Speed-optimized. We call gather_options_str many times. */
+ if (append) {
+ if (opts == NULL) {
+ opts = xstrdup(append);
+ } else {
+ int optlen = strlen(opts);
+ opts = xrealloc(opts, optlen + strlen(append) + 2);
+ sprintf(opts + optlen, " %s", append);
+ }
+ }
+ return opts;

```

```

+}
+
void FAST_FUNC replace(char *s, char what, char with)
{
    while (*s) {
@@ -76,6 +91,22 @@ void FAST_FUNC replace(char *s, char what, char with)
    }
}

+char* FAST_FUNC replace_underscores(char *s)
+{
+    int i;
+    for (i = 0; s[i]; i++) {
+        switch (s[i]) {
+            case '-':
+                s[i] = '_';
+                break;
+            case '[':
+                i += strcspn(&s[i], "[]");
+                break;
+        }
+    }
+    return s;
+}
+
int FAST_FUNC string_to_llist(char *string, llist_t **llist, const char *delim)
{
    char *tok;
diff --git a/modutils/modutils.h b/modutils/modutils.h
index 4a702e97c..73e816028 100644
--- a/modutils/modutils.h
+++ b/modutils/modutils.h
@@
-18,6 +18,20 @@ PUSH_AND_SET_FUNCTION_VISIBILITY_TO_HIDDEN
#define MODULE_NAME_LEN 256
#define MODULE_HASH_SIZE 256

+/* .bin index format definitions */
+#define INDEX_MAGIC 0xB007F457
+#define INDEX_VERSION_MAJOR 0x0002
+#define INDEX_VERSION_MINOR 0x0001
+#define INDEX_VERSION ((INDEX_VERSION_MAJOR<<16)|INDEX_VERSION_MINOR)
+
+enum node_offset {
+    INDEX_NODE_FLAGS = 0xF0000000, /* Flags in high nibble */
+    INDEX_NODE_PREFIX = 0x80000000,
+    INDEX_NODE_VALUES = 0x40000000,
+    INDEX_NODE_CHILDS = 0x20000000,

```

```

+ INDEX_NODE_MASK = 0x0FFFFFFF, /* Offset value */
+};
+
typedef struct module_entry {
    struct module_entry *next;
    char *name, *modname;
@@ -47,7 +61,9 @@ module_entry *moddb_get(module_db *db, const char *s) FAST_FUNC;
module_entry *moddb_get_or_create(module_db *db, const char *s) FAST_FUNC;
void moddb_free(module_db *db) FAST_FUNC;

+char *gather_options_str(char *opts, const char *append) FAST_FUNC;
void replace(char *s, char what, char with) FAST_FUNC;
+char *replace_underscores(char
*s) FAST_FUNC;
int string_to_llist(char *string, llist_t **llist, const char *delim) FAST_FUNC;
char *filename2modname(const char *filename, char *modname) FAST_FUNC;
#if ENABLE_FEATURE_CMDLINE_MODULE_OPTIONS

```

Found in path(s):

\* /busybox-1-36-1-r7-zip/busybox/0019-depmod-support-generating-kmod-binary-index-files.patch

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From 7ea459b570760f8e836d05e58422dbd3a7d1b016 Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?S=C3=B6ren=20Tempel?= <soeren+git@soeren-tempel.net>

Date: Sun, 19 Jun 2022 17:49:41 +0200

Subject: [PATCH] umount: Implement -O option to unmount by mount options

MIME-Version: 1.0

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: 8bit

This commit adds an implementation of the umount -O option, as provided by util-linux's mount(8) implementation, to BusyBox. Similar to -t, the option is intended to be used in conjunction with -a thereby allowing users to filter which file systems are unmounted by mount options. Multiple options can be specified with -O, all of which need to match. Each option can be prefixed with `no` to indicate that no action should be taken for a mount point with this mount option. The "no" prefix interpretation can be disabled using the "+" prefix.

At Alpine, this feature is often requested

by users as the OpenRC

netmount service uses `umount -a -O \_netdev` to amount all network file systems [1] [2].

This implementation is functionally equivalent to the util-linux implementation with the exception that it implements no special handling for `key="value"` mount options to keep the implementation simple. Therefore, filesystems mounted with options like `foo="bar"` won't

be matched by `umount -a -O foo`.

[1]: <https://gitlab.alpinelinux.org/alpine/aports/-/issues/9923>

[2]: <https://gitlab.alpinelinux.org/alpine/aports/-/issues/13789>

Signed-off-by: Sören Tempel <soeren@soeren-tempel.net>

Signed-off-by: Sören Tempel <soeren+git@soeren-tempel.net>

---

include/libbb.h | 1 +

libbb/Kbuild.src | 1 +

libbb/match\_fsopts.c | 69 ++++++

util-linux/umount.c | 10 +++++--

4 files changed, 78 insertions(+), 3 deletions(-)

create mode 100644 libbb/match\_fsopts.c

diff --git a/include/libbb.h b/include/libbb.h

index cca33a177..ad41adec8

100644

--- a/include/libbb.h

+++ b/include/libbb.h

@@ -1586,6 +1586,7 @@ const struct hwtype \*get\_hwntype(int type) FAST\_FUNC;

extern int fstype\_matches(const char \*fstype, const char \*comma\_list) FAST\_FUNC;

+extern int fsops\_matches(const char \*opts\_list, const char \*reqopts\_list) FAST\_FUNC;

#ifdef HAVE\_MNTENT\_H

extern struct mntent \*find\_mount\_point(const char \*name, int subdir\_too) FAST\_FUNC;

#endif

diff --git a/libbb/Kbuild.src b/libbb/Kbuild.src

index 653025e56..4bb8260b9 100644

--- a/libbb/Kbuild.src

+++ b/libbb/Kbuild.src

@@ -120,6 +120,7 @@ lib-y += xrealloc\_vector.o

lib-\$(CONFIG\_MOUNT) += match\_fstype.o

lib-\$(CONFIG\_UMOUNT) += match\_fstype.o

+lib-\$(CONFIG\_UMOUNT) += match\_fsops.o

lib-\$(CONFIG\_FEATURE\_UTMP) += utmp.o

diff --git a/libbb/match\_fsopts.c b/libbb/match\_fsopts.c

new file mode 100644

index 000000000..b1cc85c3c

--- /dev/null

+++ b/libbb/match\_fsopts.c

@@ -0,0 +1,69 @@

+/ \* vi: set sw=4 ts=4: \*/

+/ \*

```

+ * Match fsops for use in mount unmount -O.
+ *
+ *
+ * Returns 1 for a match, otherwise 0.
+ *
+ * Licensed under GPLv2 or later, see file LICENSE in this source tree.
+ */
+
+ #include "libbb.h"
+
+ static int fsop_matches(const char *opts_list, const char *opt, size_t optlen)
+ {
+     int match = 1;
+
+     if (optlen >= 2 && opt[0] == 'n' && opt[1] == 'o') {
+         match--;
+         opt += 2; optlen -= 2;
+     }
+
+     /* The alone "no" is an error, all matching ends with False. */
+     if (optlen == 0)
+         return 0;
+
+     /* The "no" prefix interpretation can be disabled by the "+" prefix. */
+     if (match && optlen > 1 && *opt == '+') {
+         opt++; optlen--;
+     }
+
+     while (1) {
+         if (strncmp(opts_list, opt, optlen) == 0) {
+             const char *after_opt = opts_list + optlen;
+             if (*after_opt == '\0' || *after_opt == ',')
+                 return match;
+         }
+
+         opts_list = strchr(opts_list, ',');
+         if (!opts_list)
+             break;
+         opts_list++;
+     }
+
+     return !match;
+ }
+
+ /* This function implements the mnt_match_options function from libmount. */
+ int FAST_FUNC fsops_matches(const
+     char *opts_list, const char *reqopts_list)
+ {

```

```

+ if (!reqopts_list)
+ return 1; /* no options requested, match anything */
+
+ while (1) {
+ size_t len;
+ const char *comma = strchr(reqopts_list, ',');
+ if (!comma)
+ len = strlen(reqopts_list);
+ else
+ len = comma - reqopts_list;
+
+ if (len && !fspt_matches(opts_list, reqopts_list, len))
+ return 0;
+
+ if (!comma)
+ break;
+ reqopts_list = ++comma;
+ }
+
+ return 1;
+}
diff --git a/util-linux/umount.c b/util-linux/umount.c
index 23da32868..7a54cafb0 100644
--- a/util-linux/umount.c
+++ b/util-linux/umount.c
@@ -41,7 +41,7 @@
//kbuild:lib-$(CONFIG_UMOUNT) += umount.o

//usage:#define umount_trivial_usage
-//usage:      "[-
rIf"IF_FEATURE_MTAB_SUPPORT("m")IF_FEATURE_MOUNT_LOOP("d")IF_FEATURE_UMOUNT_ALL(
"a")"] [-t FSTYPE] FILESYSTEM|DIRECTORY"
+//usage:      "[-
rIf"IF_FEATURE_MTAB_SUPPORT("m")IF_FEATURE_MOUNT_LOOP("d")IF_FEATURE_UMOUNT_ALL(
"a")"] [-t FSTYPE] [-O FSOPT] FILESYSTEM|DIRECTORY"
//usage:#define umount_full_usage
"\n\n"
//usage:      "Unmount filesystems\n"
//usage: IF_FEATURE_UMOUNT_ALL(
@@ -57,6 +57,6 @@
//usage:      "\n -d Free loop device if it has been used"
//usage: )
//usage:      "\n -t FSTYPE[,...] Unmount only these filesystem type(s)"
+//usage:      "\n -O FSOPT[,...] Unmount only filesystem mounted with the given options"
//usage:
//usage:#define umount_example_usage
//usage:      "$ umount /dev/hdc1\n"
@@ -82,7 +82,7 @@
static struct mntent *getmntent_r(FILE* stream, struct mntent* result,

```

```

#endif

/* ignored: -c -v -i */
#define OPTION_STRING      "fldnrat:" "cvi"
#define OPTION_STRING      "fldnrat:O:" "cvi"
#define OPT_FORCE          (1 << 0) // Same as MNT_FORCE
#define OPT_LAZY           (1 << 1) // Same as MNT_DETACH
#define OPT_FREELOOP       (1 << 2)

@@ -96,6 +97,7 @@ int umount_main(int argc UNUSED_PARAM, char **argv)
    int doForce;
    struct mntent me;
    FILE *fp;
    + char *opts = NULL;
    char *fstype = NULL;
    int status =
    EXIT_SUCCESS;
    unsigned opt;
    @@ -105,7 +107,7 @@ int umount_main(int argc UNUSED_PARAM, char **argv)
        struct mtab_list *next;
    } *mtl, *m;

    - opt = getopt32(argv, OPTION_STRING, &fstype);
    + opt = getopt32(argv, OPTION_STRING, &fstype, &opts);
    //argc -= optind;
    argv += optind;

    @@ -133,6 +135,8 @@ int umount_main(int argc UNUSED_PARAM, char **argv)
        /* Match fstype (fstype==NULL matches always) */
        if (!fstype_matches(me.mnt_type, fstype))
            continue;
    + if (!fsops_matches(me.mnt_opts, opts))
    + continue;
        m = xzalloc(sizeof(*m));
        m->next = mtl;
        m->device = xstrdup(me.mnt_fsname);

```

Found in path(s):

\* /busybox-1-36-1-r7-zip/busybox/0027-umount-Implement-O-option-to-unmount-by-mount-option.patch

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

```

/*
* Copyright (C) 2008 Natanael Copa <natanael.copa@gmail.com>
* All rights reserved.
*
* This program is free software; you can redistribute it and/or modify it
* under the terms of the GNU General Public License version 2 as published
* by the Free Software Foundation. See http://www.gnu.org/ for details.
*

```



\*/

Found in path(s):

\* /busybox-1-36-1-r7-zip/busybox/bbsuid.c

## 1.159 sqlite 3.40.1-r1

### 1.159.1 Available under license :

The author disclaims copyright to this source code. In place of a legal notice, here is a blessing:

May you do good and not evil.

May you find forgiveness for yourself and forgive others.

May you share freely, never taking more than you give.

## 1.160 ca-certificates 20240226-r0

### 1.160.1 Available under license :

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

```
#!/usr/bin/env perl
# *****
# *
# *      _ _ _ _ _
# * Project  _||| _\||
# *      / _||| | ||
# *      | ( _||| _ <| _
# *      \ _\ _/| | \ _ _
# *
# *
# * Copyright (C) 1998 - 2020, Daniel Stenberg, <daniel@haxx.se>, et al.
# *
# * This software is licensed as described in the file COPYING, which
# * you should have received as part of this distribution. The terms
# * are also available at https://curl.haxx.se/docs/copyright.html.
# *
# * You may opt to use, copy, modify, merge, publish, distribute and/or sell
# * copies of the Software, and permit persons to whom the Software is
# * furnished to do so, under the terms of the COPYING file.
# *
# * This software is distributed on an "AS IS" basis, WITHOUT
# * WARRANTY OF ANY
# * KIND, either express or implied.
# *
# * *****
# * This Perl script creates a fresh ca-bundle.crt file for use with libcurl.
# * It downloads certdata.txt from Mozilla's source tree (see URL below),
# * then parses certdata.txt and extracts CA Root Certificates into PEM format.
```

```

# These are then processed with the OpenSSL commandline tool to produce the
# final ca-bundle.crt file.
# The script is based on the parse-certs script written by Roland Krikava.
# This Perl script works on almost any platform since its only external
# dependency is the OpenSSL commandline tool for optional text listing.
# Hacked by Guenter Knauf.
#
use Encode;
use Getopt::Std;
use MIME::Base64;
use strict;
use warnings;
use vars qw($opt_b $opt_d $opt_f $opt_h $opt_i $opt_k $opt_l $opt_m $opt_n $opt_p $opt_q $opt_s $opt_t $opt_u
$opt_v $opt_w);
use List::Util;
use Text::Wrap;
use Time::Local;
my $MOD_SHA = "Digest::SHA";
eval "require
$MOD_SHA";
if ($@) {
$MOD_SHA = "Digest::SHA::PurePerl";
eval "require $MOD_SHA";
}
eval "require LWP::UserAgent";

my %urls = (
'nss' =>
'https://hg.mozilla.org/projects/nss/raw-file/default/lib/ckfw/builtins/certdata.txt',
'central' =>
'https://hg.mozilla.org/mozilla-central/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
'beta' =>
'https://hg.mozilla.org/releases/mozilla-beta/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
'release' =>
'https://hg.mozilla.org/releases/mozilla-release/raw-file/default/security/nss/lib/ckfw/builtins/certdata.txt',
);

$opt_d = 'release';

# If the OpenSSL commandline is not in search path you can configure it here!
my $openssl = 'openssl';

my $version = '1.27';

$opt_w = 76; # default base64 encoded lines length

# default cert types to include in the output (default is to include CAs which may issue SSL server certs)
my $default_mozilla_trust_purposes = "SERVER_AUTH";

```

```

my $default_mozilla_trust_levels
= "TRUSTED_DELEGATOR";
$opt_p = $default_mozilla_trust_purposes . ":" . $default_mozilla_trust_levels;

my @valid_mozilla_trust_purposes = (
    "DIGITAL_SIGNATURE",
    "NON_REPUDIATION",
    "KEY_ENCIPHERMENT",
    "DATA_ENCIPHERMENT",
    "KEY_AGREEMENT",
    "KEY_CERT_SIGN",
    "CRL_SIGN",
    "SERVER_AUTH",
    "CLIENT_AUTH",
    "CODE_SIGNING",
    "EMAIL_PROTECTION",
    "IPSEC_END_SYSTEM",
    "IPSEC_TUNNEL",
    "IPSEC_USER",
    "TIME_STAMPING",
    "STEP_UP_APPROVED"
);

my @valid_mozilla_trust_levels = (
    "TRUSTED_DELEGATOR", # CAs
    "NOT_TRUSTED",      # Don't trust these certs.
    "MUST_VERIFY_TRUST", # This explicitly tells us that it ISN'T a CA but is otherwise ok. In other words, this
                        # should tell the app to ignore any other sources that claim this is a CA.
    "TRUSTED"           # This cert is trusted, but only for itself and not for delegates (i.e. it is not a CA).
);

my $default_signature_algorithms = $opt_s = "MD5";

my @valid_signature_algorithms = (
    "MD5",
    "SHA1",
    "SHA256",
    "SHA384",
    "SHA512"
);

$0 =~ s@.*(/\|\\)@@;
$Getopt::Std::STANDARD_HELP_VERSION = 1;
getopts('bd:fhiklmnp:qs:tuvw:');

if(!defined($opt_d)) {
    # to make plain "-d" use not cause warnings, and actually still work
    $opt_d = 'release';
}

```

```

}

# Use predefined URL or else custom URL specified on command line.
my $url;
if(defined($urls{$opt_d})) {
    $url = $urls{$opt_d};
    if(!$opt_k && $url !~ /^https:\W/i) {
        die "The URL for '$opt_d' is not HTTPS. Use -k to override (insecure).\n";
    }
}
else {
    $url = $opt_d;
}

my $curl = `curl -V`;

if ($opt_i) {
    print ("=" x 78 . "\n");
    print "Script Version      : $version\n";
    print "Perl Version          : $]\n";
    print "Operating System Name    : $^O\n";
    print "Getopt::Std.pm Version    : ${Getopt::Std::VERSION}\n";
    print "Encode::Encoding.pm Version : ${Encode::Encoding::VERSION}\n";
    print "MIME::Base64.pm Version   : ${MIME::Base64::VERSION}\n";
    print "LWP::UserAgent.pm
Version      : ${LWP::UserAgent::VERSION}\n" if($LWP::UserAgent::VERSION);
    print "LWP.pm Version      : ${LWP::VERSION}\n" if($LWP::VERSION);
    print "Digest::SHA.pm Version : ${Digest::SHA::VERSION}\n" if ($Digest::SHA::VERSION);
    print "Digest::SHA::PurePerl.pm Version : ${Digest::SHA::PurePerl::VERSION}\n" if
($Digest::SHA::PurePerl::VERSION);
    print ("=" x 78 . "\n");
}

sub warning_message() {
    if ( $opt_d =~ m/^risk$/i ) { # Long Form Warning and Exit
        print "Warning: Use of this script may pose some risk:\n";
        print "\n";
        print " 1) If you use HTTP URLs they are subject to a man in the middle attack\n";
        print " 2) Default to 'release', but more recent updates may be found in other trees\n";
        print " 3) certdata.txt file format may change, lag time to update this script\n";
        print " 4) Generally unwise to blindly trust CAs without manual review & verification\n";
        print " 5) Mozilla apps use additional security
checks aren't represented in certdata\n";
        print " 6) Use of this script will make a security engineer grind his teeth and\n";
        print "    swear at you. ;) \n";
        exit;
    } else { # Short Form Warning
        print "Warning: Use of this script may pose some risk, -d risk for more details.\n";
    }
}

```

```

}
}

sub HELP_MESSAGE() {
    print "Usage: t${0} [-b] [-d<certdata>] [-f] [-i] [-k] [-l] [-n] [-p<purposes:levels>] [-q] [-s<algorithms>] [-t] [-u] [-v] [-w<l>] [<outputfile>]\n";
    print "\t-b\tbackup an existing version of ca-bundle.crt\n";
    print "\t-d\tspecify Mozilla tree to pull certdata.txt or custom URL\n";
    print "\t\t Valid names are:\n";
    print "\t\t ", join( " ", map { ( $_ =~ m/$opt_d/ ) ? "$_ (default)" : "$_" } sort keys %urls ), "\n";
    print "\t-f\tforce rebuild even if certdata.txt is current\n";
    print "\t-i\tprint version info about used modules\n";
    print "\t-k\tallow URLs other than HTTPS, enable HTTP fallback (insecure)\n";
    print "\t-l\tprint license info about certdata.txt\n";
    print "\t-m\tinclude meta data in output\n";
    print "\t-n\tno download of certdata.txt (to use existing)\n";
    print wrap("\t\t", "\t\t", "-p\tlist of Mozilla trust purposes and levels for certificates to include in output. Takes the form of a comma separated list of purposes, a colon, and a comma separated list of levels. (default: $default_mozilla_trust_purposes:$default_mozilla_trust_levels)", "\n");
    print "\t\t Valid purposes are:\n";
    print wrap("\t\t ", "\t\t ", join( " ", "ALL", @valid_mozilla_trust_purposes ), "\n");
    print "\t\t Valid levels are:\n";
    print wrap("\t\t ", "\t\t ", join( " ", "ALL", @valid_mozilla_trust_levels ), "\n");
    print "\t-q\tbe really quiet (no progress output at all)\n";
    print wrap("\t\t", "\t\t", "-s\tcomma separated list of certificate signatures/hashes to output in plain text mode. (default: $default_signature_algorithms)\n");
    print "\t\t Valid signature algorithms are:\n";
    print wrap("\t\t ", "\t\t ", join( " ", "ALL", @valid_signature_algorithms ), "\n");
    print "\t-t\tinclude plain text listing of certificates\n";
    print "\t-u\tunlink (remove) certdata.txt after processing\n";
    print "\t-v\tbe verbose and print out processed CAs\n";
    print "\t-w <l>\twrap base64 output lines after <l> chars (default: ${opt_w})\n";
    exit;
}

sub VERSION_MESSAGE() {
    print "${0} version ${version} running Perl ${[]} on ${^O}\n";
}

warning_message() unless ($opt_q || $url =~ m/^(ht|f)tps:/i );
HELP_MESSAGE() if ($opt_h);

sub report($@) {
    my $output = shift;

    print STDERR $output . "\n" unless $opt_q;
}

```

```

}

sub is_in_list($@) {
    my $target = shift;

    return defined(List::Util::first { $target eq $_ } @_);
}

# Parses $param_string as a case insensitive comma separated list with optional whitespace
# validates that only allowed parameters are supplied
sub parse_csv_param($$@) {
    my $description = shift;
    my $param_string = shift;
    my @valid_values = @_;

    my @values = map {
        s/^\s+//; # strip leading spaces
        s/\s+$//; # strip trailing spaces
        uc $_      # return the modified string as upper case
    } split( ',', $param_string );

    # Find all values which are not in the list of valid values or "ALL"
    my @invalid = grep { !is_in_list($_,"ALL",@valid_values) } @values;

    if ( scalar(@invalid) > 0 ) {
        # Tell the user which parameters were invalid and print the standard help message which will exit
        print "Error: Invalid ", $description, scalar(@invalid) == 1 ? " : " : "s: ", join( ", ", map { "\"$_\"" } @invalid ),
        "\n";
        HELP_MESSAGE();
    }

    @values = @valid_values if ( is_in_list("ALL",@values) );

    return @values;
}

sub sha256 {
    my $result;
    if ($Digest::SHA::VERSION || $Digest::SHA::PurePerl::VERSION) {
        open(FILE, $_[0]) or die "Can't open '$_[0]': $!";
        binmode(FILE);
        $result = $MOD_SHA->new(256)->addfile(*FILE)->hexdigest;
        close(FILE);
    } else {
        # Use OpenSSL command if Perl Digest::SHA modules not available
        $result = `"$openssl" dgst -r -sha256 "$_[0]"`;
        $result =~ s/^\s*([0-9a-f]{64})\s*/$1/is;
    }
}

```

```

return $result;
}

sub oldhash {
    my $hash = "";
    open(C, "<$_[0]>" || return 0;
    while(<C>) {
        chomp;
        if($_ =~ /\#\# SHA256: (.*)/) {
            $hash = $1;
            last;
        }
    }
    close(C);
    return $hash;
}

if ( $opt_p !~ m/\/ ) {
    print "Error: Mozilla trust identifier list must include both purposes and levels\n";
    HELP_MESSAGE();
}

(my $included_mozilla_trust_purposes_string, my $included_mozilla_trust_levels_string) = split( ':', $opt_p );
my @included_mozilla_trust_purposes = parse_csv_param( "trust purpose",
$included_mozilla_trust_purposes_string, @valid_mozilla_trust_purposes );
my @included_mozilla_trust_levels = parse_csv_param( "trust level", $included_mozilla_trust_levels_string,
@valid_mozilla_trust_levels );

my @included_signature_algorithms = parse_csv_param( "signature algorithm", $opt_s,
@valid_signature_algorithms );

sub should_output_cert(%) {
    my
    %trust_purposes_by_level = @_;

    foreach my $level (@included_mozilla_trust_levels) {
        # for each level we want to output, see if any of our desired purposes are included
        return 1 if ( defined( List::Util::first { is_in_list( $_, @included_mozilla_trust_purposes ) }
@{$trust_purposes_by_level{$level}} ) );
    }

    return 0;
}

my $crt = $ARGV[0] || 'ca-bundle.crt';
(my $txt = $url) =~ s@(.*/|/?.*)@@g;

```

```

my $stdout = $crt eq '-';
my $resp;
my $fetched;

my $oldhash = oldhash($crt);

report "SHA256 of old file: $oldhash";

if(!$opt_n) {
    report "Downloading $txt ...";

    # If we have an HTTPS URL then use curl
    if($url =~ /^https:\/\//i) {
        if($curl) {
            if($curl =~ /^Protocols:.* https( |$)/m) {
                report "Get certdata with curl!";
                my $proto = !$opt_k ? "--proto =https" : "";
                my $quiet = $opt_q ? "-s" : "";
                my @out = `curl -w %{response_code} $proto $quiet -o "$txt" "$url"`;
                if(! $? && @out && $out[0] == 200) {
                    $fetched = 1;
                    report "Downloaded $txt";
                }
            }
            else {
                report "Failed downloading via HTTPS with curl";
                if(-e $txt && !unlink($txt)) {
                    report "Failed to remove '$txt': $!";
                }
            }
        }
        else {
            report "curl lacks https support";
        }
    }
    else {
        report "curl not found";
    }
}

# If nothing was fetched then use LWP
if(!$fetched) {
    if($url =~ /^https:\/\//i) {
        report "Falling back to HTTP";
        $url =~ s/^https:\/\//http:\/\//i;
    }
    if(!$opt_k) {
        report "URLs other than HTTPS are disabled by default, to enable use -k";
        exit 1;
    }
}

```



```

}
report "Get certdata with LWP!";
if(!defined(${LWP::UserAgent::VERSION})) {
    report "LWP is not available (LWP::UserAgent not found)";
    exit 1;
}
my $ua = new LWP::UserAgent(agent => "$0/$version");
$ua->env_proxy();
$response = $ua->mirror($url, $txt);
if($response && $response->code eq '304') {
    report "Not modified";
    exit 0 if -e $crt && !$opt_f;
}
else {
    $fetched = 1;
    report "Downloaded $txt";
}
if(!$response || $response->code !~ /^(?:200|304)$/) {
    report "Unable to download latest data: "
        . ($response? $response->code . ' - ' . $response->message : "LWP failed");
    exit 1 if -e $crt || ! -r $txt;
}
}
}

my $filedate = $response ? $response->last_modified : (stat($txt))[9];
my $datesrc = "as of";
if(!$filedate) {
    # mxr.mozilla.org gave us a time, hg.mozilla.org does not!
    $filedate = time();
    $datesrc="downloaded on";
}

# get the hash from the download file
my $newhash= sha256($txt);

if(!$opt_f && $oldhash eq $newhash) {
    report "Downloaded file identical to previous run's source file. Exiting";
    if($opt_u && -e $txt && !unlink($txt)) {
        report "Failed to remove $txt: $!\n";
    }
    exit;
}

report "SHA256 of new file: $newhash";

my $currentdate = scalar gmtime($filedate);

```

```

my $format = $opt_t ? "plain text and " : "";
if( $stdout
) {
    open(CRT, '> -') or die "Couldn't open STDOUT: $!\n";
} else {
    open(CRT, ">$crt.~") or die "Couldn't open $crt.~: $!\n";
}
print CRT <<EOT;
##
## Bundle of CA Root Certificates
##
## Certificate data from Mozilla ${datesrc}: ${currentdate} GMT
##
## 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:
## ${url}
##
## It contains the certificates in ${format}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.
##
## Conversion done with mk-ca-bundle.pl version $version.
## SHA256: $newhash
##

```

EOT

```

report "Processing '$txt' ...";
my $cname;
my $certnum = 0;
my $skipnum = 0;
my $start_of_cert = 0;
my @precert;
my $cka_value;
my $valid = 1;

open(TXT, "$txt")
or die "Couldn't open $txt: $!\n";
while (<TXT>) {
    if (/^.*\*\*\* BEGIN LICENSE BLOCK \*\*\*\*/) {
        print CRT;
        print if ($opt_l);
        while (<TXT>) {
            print CRT;
            print if ($opt_l);
            last if (/^.*\*\*\* END LICENSE BLOCK \*\*\*\*/);
        }
    }
}

```

```

    }
}
elseif(/^# (Issuer|Serial Number|Subject|Not Valid Before|Not Valid After |Fingerprint \|(MD5\)|Fingerprint
\|(SHA1\)):/) {
    push @precert, $_;
    $valid = 1;
    next;
}
elseif(/^#|^\s*$/) {
    undef @precert;
    next;
}
}
chomp;

```

# Example:

```

# CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
# \062\060\060\066\061\067\060\060\060\060\060\060\132
# END

```

```

if (/^CKA_NSS_SERVER_DISTRUST_AFTER (CK_BBOOL CK_FALSE|MULTILINE_OCTAL)/) {
    if ($1 eq "MULTILINE_OCTAL") {
        my @timestamp;
        while (<TXT>) {
            last if (/^END/);
            chomp;
            my @octets = split(/\v);
            shift @octets;
            for (@octets) {
                push
@timestamp, chr(oct);
            }
        }
        # A trailing Z in the timestamp signifies UTC
        if ($timestamp[12] ne "Z") {
            report "distrust date stamp is not using UTC";
        }
        # Example date: 200617000000Z
        # Means 2020-06-17 00:00:00 UTC
        my $distrustat =
            timegm($timestamp[10] . $timestamp[11], # second
                $timestamp[8] . $timestamp[9], # minute
                $timestamp[6] . $timestamp[7], # hour
                $timestamp[4] . $timestamp[5], # day
                ($timestamp[2] . $timestamp[3]) - 1, # month
                "20" . $timestamp[0] . $timestamp[1]); # year
        if (time >= $distrustat) {
            # not trusted anymore
            $skipnum++;
        }
    }
}

```

```

        report "Skipping: $scaname is not trusted anymore" if ($opt_v);
        $valid = 0;
    }
    else {
        # still trusted
    }
}
next;
}

# this
is a match for the start of a certificate
if (/^CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE/) {
    $start_of_cert = 1
}
if ($start_of_cert && /^CKA_LABEL UTF8 \"(.*)\"/) {
    $scaname = $1;
}
my %trust_purposes_by_level;
if ($start_of_cert && /^CKA_VALUE MULTILINE_OCTAL/) {
    $cka_value="";
    while (<TXT>) {
        last if (/^END/);
        chomp;
        my @octets = split(/\n/);
        shift @octets;
        for (@octets) {
            $cka_value .= chr(oct);
        }
    }
}
if(/^CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST/ && $valid) {
    # now scan the trust part to determine how we should trust this cert
    while (<TXT>) {
        last if (/^#/);
        if (/^CKA_TRUST_([A-Z_]+)\s+CK_TRUST\s+CKT_NSS_([A-Z_]+)\s*$/) {
            if ( !is_in_list($1,@valid_mozilla_trust_purposes) ) {
                report "Warning: Unrecognized trust purpose for cert: $scaname. Trust purpose: $1. Trust Level: $2";
            } elsif ( !is_in_list($2,@valid_mozilla_trust_levels) ) {
                report "Warning:
Unrecognized trust level for cert: $scaname. Trust purpose: $1. Trust Level: $2";
            } else {
                push @{$trust_purposes_by_level{$2}}, $1;
            }
        }
    }
}

if ( !should_output_cert(%trust_purposes_by_level) ) {

```

```

$skipnum ++;
report "Skipping: $scaname" if ($opt_v);
} else {
my $data = $sca_value;
$sca_value = "";
my $encoded = MIME::Base64::encode_base64($data, "");
$encoded =~ s/(\{1,$opt_w\})/$1\n/g;
my $pem = "-----BEGIN CERTIFICATE-----\n"
    . $encoded
    . "-----END CERTIFICATE-----\n";
print CRT "\n$scaname\n";
print CRT @precert if($opt_m);
my $maxLength = length(decode('UTF-8', $scaname, Encode::FB_CROAK | Encode::LEAVE_SRC));
if ($opt_t) {
    foreach my $key (keys %trust_purposes_by_level) {
        my $string = $key . ": " . join(" ", @{$trust_purposes_by_level{$key}});
        $maxLength = List::Util::max( length($string), $maxLength
);
        print CRT $string . "\n";
    }
}
print CRT ("=" x $maxLength . "\n");
if (!$opt_t) {
    print CRT $pem;
} else {
my $pipe = "";
foreach my $hash (@included_signature_algorithms) {
    $pipe = "|$openssl x509 -" . $hash . " -fingerprint -noout -inform PEM";
    if (!$stdout) {
        $pipe .= " >> $crt.~";
        close(CRT) or die "Couldn't close $crt.~: $!";
    }
    open(TMP, $pipe) or die "Couldn't open openssl pipe: $!";
    print TMP $pem;
    close(TMP) or die "Couldn't close openssl pipe: $!";
    if (!$stdout) {
        open(CRT, ">>$crt.~") or die "Couldn't open $crt.~: $!";
    }
}
$pipe = "|$openssl x509 -text -inform PEM";
if (!$stdout) {
    $pipe .= " >> $crt.~";
    close(CRT) or die "Couldn't close $crt.~: $!";
}
open(TMP, $pipe) or die "Couldn't open openssl pipe: $!";
print TMP
$pem;
close(TMP) or die "Couldn't close openssl pipe: $!";

```

```

        if (!$stdout) {
            open(CRT, ">>$crt.~") or die "Couldn't open $crt.~: $!";
        }
    }
    report "Parsing: $scaname" if ($opt_v);
    $certnum ++;
    $start_of_cert = 0;
}
undef @precert;
}

}
close(TXT) or die "Couldn't close $txt: $!\n";
close(CRT) or die "Couldn't close $crt.~: $!\n";
unless( $stdout ) {
    if ($opt_b && -e $crt) {
        my $bk = 1;
        while (-e "$crt.~${bk}~") {
            $bk++;
        }
        rename $crt, "$crt.~${bk}~" or die "Failed to create backup $crt.~$bk}~: $!\n";
    } elsif( -e $crt ) {
        unlink( $crt ) or die "Failed to remove $crt: $!\n";
    }
    rename "$crt.~", $crt or die "Failed to rename $crt.~ to $crt: $!\n";
}
if($opt_u && -e $txt && !unlink($txt)) {
    report "Failed to remove $txt: $!\n";
}
}
report "Done ($certnum CA certs processed, $skipnum skipped).";

```

Found in path(s):

\* /ca-certificates-20230506-tar-bz2/ca-certificates-20230506/mk-ca-bundle.pl

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

/\* c\_rehash.c - Create hash symlinks for certificates

\* C implementation based on the original Perl and shell versions

\*

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\*/

Found in path(s):

\* /ca-certificates-20230506-tar-bz2/ca-certificates-20230506/c\_rehash.c

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@item

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@item

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@item

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

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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@page

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and a brief idea of what it does.}

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```
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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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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.

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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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- the GNU.Gettext.dll C# library,
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

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

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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## 1.174 kerberos 1.20.1-r0

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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  
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lib/libgss/g\_accept\_sec\_context.c  
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lib/libgss/g\_exp\_sec\_context.c  
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lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
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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  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in  
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

```
include/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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## 1.175 python-certifi 2022.12.07

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Just configure this file as the SSLCACertificateFile.#

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## 1.176 jaraco.context 5.3.0

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## 1.177 musl 1.2.3-r4

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-- vile: txtmode file-encoding=utf-8

## 1.181 tenacity 8.1.0

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## 1.183 python-certifi 2022.09.24

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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:  
<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>  
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Just configure this file as the SSLCACertificateFile.#

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## 1.192 libns! 2.0.0-r0

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Version 2.1, February 1999

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# 1.194 typing-extensions 4.12.2

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

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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 <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|-------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI   | yes                 |

|                |           |           |            |         |
|----------------|-----------|-----------|------------|---------|
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes     |
| 2.2 and above  | 2.1.1     | 2001-now  |            |         |
| PSF            |           |           |            | yes     |

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

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## 1.197 expat 2.5.0-r0

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```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
# Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/${_pkgreal}-${pkgver}.tar.gz"

_buildddir="$srcdir/${_pkgreal}-${pkgver}"

prepare() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    make && make test
}

package() {
```

```
cd "$_builddir"
make
DESTDIR="$pkgdir" install || return 1
find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}
```

md5sums="0c5fd53d93818566234578b27d667b35 Software-License-0.103004.tar.gz"

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# Contributor: Valery Kartel <valery.kartel@gmail.com>

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pkgname=perl-bsd-resource

```

_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=0
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/${_pkgreal}-${pkgver}.tar.gz"

_buildddir="$srcdir/${_pkgreal}-${pkgver}"

prepare() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_buildddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}`
    make && make test || return 1
}

package() {
    cd "$_buildddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir"
    \(-name perllocal.pod -o -name .packlist\) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python flake8"
depends_dev=""
makedepends="python-dev py-setuptools"
install=""
subpackages=""
source="http://pypi.python.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"

_buildddir="${srcdir}/${_pkgname}-${pkgver}
prepare() {
    local i
    cd "$_buildddir"
    for i in $source; do
        case $i in
            *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
            esac
        done
    }

    build() {
        cd "$_buildddir"
        python setup.py build || return 1
    }

    package() {
        cd "$_buildddir"
        python setup.py install --prefix=/usr --root="$pkgdir" || return 1
    }

md5sums="8fab17d27f0b417c44ea0bebf579d71b flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b
    flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e
0f23797c1a356abcf242e9f556b979b75e3a8bfe46 flake8-copyright-0.1.tar.gz"
mini_sendmail - accept email on behalf of real sendmail

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl

pkgver=2.3.21

pkgrel=5

pkgdesc="A library for high-performance 2D graphics"

url="http://www.levien.com/libart/"

arch="all"

license="LGPL"

depends=

makedepends=

subpackages="\$pkgname-dev"

source="http://ftp.gnome.org/pub/GNOME/sources/libart-lgpl/2.3/libart-lgpl-\$pkgver.tar.bz2"

"

\_builddir="\$srcdir"/libart-lgpl-\$pkgver

```

prepare() {
  cd "$_builddir"
  update_config_sub || return 1
}

build() {
  cd "$_builddir"
  ./configure \
    --build=$CBUILD \
    --host=$CHOST \
    --prefix=/usr \
    || return 1
  make || return 1
}

package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"

```

# 1.199 once\_cell 1.19.0

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# 1.200 parking\_lot\_core 0.9.9

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## 1.212 wheel 0.46.3

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