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1.2 visual-studio-runtime 10.0

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For Microsoft vscode-theme-seti

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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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1.3 libffi 3.4.4-r2

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

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

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1.3 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
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2.3.3	2.3.2	2002-2003	PSF	yes
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2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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2.4.2	2.4.1	2005	PSF	yes
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2.6	2.5	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
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3.0	2.6	2008	PSF	yes
3.0.1	3.0	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
- Pior Bastida
- Anthony Baxter
- Erik Bray
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- Luis Rojas
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- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- 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
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``::

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

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see 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
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1.6.1	1.6	2001	CNRI	yes (2)
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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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1.8 openssl 3.2.1

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1.9 bzip2 1.0.8-r5

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.10 ncurses 6.3_p20221119-r1

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1.11 typeguard 4.3.0

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1.21 keyutils 1.6.3-r3

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1.23 python-dateutil 2.8.1

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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
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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
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
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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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1.28 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).
*/

1.29 pycparser 2.21

1.29.1 Available under license :

pycparser -- A C parser in Python

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1.30 more-itertools 10.3.0

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1.31 krb5-conf 1.0-r2

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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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
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lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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1.34 pax-utils 1.3.7-r1

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1.35 six 1.16.0

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  Local variables:
  coding: utf-8
  mode: text
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  End:
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1.37 jaraco-functools 4.0.1

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1.38 alpine-keys 2.4-r1

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1.39 util-linux 2.38.1-r8

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1.41 mypy_extensions 1.1.0

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1.42 busybox 1.36.1-r7

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1.44 geos 3.11.1-r0

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1.48 zipp 3.19.2

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* C implementation based on the original Perl and shell versions
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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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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
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`fastjsonschema`
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1.57 pyyaml 6.0.1

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1.58 distro 1.9.0

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1.60 aiohttp-swagger 1.0.16

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1.61 python3-asn1crypto 1.5.1

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp $
Upstream source https://invisible-island.net/ncurses/Ada95.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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1.64 geos 3.11.2-r0

1.64.1 Available under license :

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1.67 cpp 12.2.1_git20220924-r10

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

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Version 3.1, 31 March 2009

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
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-   trivial database library - private includes
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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.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider
 it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
This package, the EXT2 filesystem utilities, are made available under
the GNU Public License version 2, with the exception of the lib/ext2fs
and lib/e2p libraries, which are made available under the GNU Library
General Public License Version 2, the lib/uuid library which is made
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libraries which are made available under an MIT-style license. Please
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libet and libss libraries for more information.

The most recent officially distributed version can be found at
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that's the one you should use. If there is some reason why you'd like
a more recent version that is still in ALPHA testing (i.e., either
using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me
(tytso@mit.edu)

before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Version 2, June 1991

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

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only if its contents constitute a work based on the
Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it
with the information you received as to the offer
to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

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 subroutine library, you may
consider it more useful to permit linking proprietary applications with the
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Public License instead of this License.

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

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freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's

free use or not licensed at all.

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

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

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

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

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

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

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

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fee.

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

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

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

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library,
or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

That's all there is to it!

```
#
# 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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1.78 distro 1.8.0

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1.79 idna-ssl 1.1.0

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1.80 more-itertools 8.12.0

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1.81 jinja 3.1.3

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1.82 idna 15.0.0

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1.83 python-pip 23.0.1

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(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
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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.

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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	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
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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
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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

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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
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1.84 pyproject-hooks 1.2.0

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1.85 bridgeutils 1.35.0-r31

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```
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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
- * Copyrihgt (c) 2008 Timo Teras <timo.teras@iki.fi>
+ * Copyrihgt (c) 2008-2015 Timo Teras <timo.teras@iki.fi>
 * Copyright (c) 2008 Vladimir Dronnikov
 *
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@@ -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_PARA
   ) {
    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->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 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;
@@ -47,7 +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-1-35-0-r31-zip/busybox/0009-depmod-support-generating-kmod-binary-index-files.patch

1.86 aiokafka 0.8.0

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1.87 marshmallow 3.26.1

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==========

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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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1.94 gdbm 1.23-r1

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The End

1.101 python-pip 22.3.1

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

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

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1.3 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
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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
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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
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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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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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1.102 backports.tarfile 1.2.0

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1.103 python-setuptools 70.3.0

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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools 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

***

The following files include code from opensource projects
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- `fastjsonschema_exceptions.py`:
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- `extra_validations.py` and `format.py`, `error_reporting.py`:
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Additionally the following files are automatically generated by tools provided
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`__init__.py`
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***

`fastjsonschema`
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`validate-pyproject`
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```
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+++ 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

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-
-   Copyright (C) Andrew Tridgell            2005
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Theodore Ts'o
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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): $(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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1.107 msgpack 1.1.1

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1.108 marshmallow-enum 1.5.1

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1.109 e2fsprogs 1.46.5-r4

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

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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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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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```
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell            2005
+   Copyright (C) Andrew Tridgell            1999-2005
+   Copyright (C) Jeremy Allison             2000-2006
+   Copyright (C) Paul `Rusty' Russell       2000

    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
```

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Gadi Oxman, August 1995

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

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.110 importlib_resources 6.4.5

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1.111 ca-certificates 20220614-r4

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* C implementation based on the original Perl and shell versions
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1.112 gettext 0.21.1-r1

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a

"work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

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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
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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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^L
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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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- the _programs_ gettext, ngettext, envsubst,

- the documentation.

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

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1.113 apispec 6.5.0

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1.116 importlib-resources 5.4.0

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1.117 protobuf 5.28.2

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1.118 distlib 0.4.0

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1.119 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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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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2.1.1	2.1+2.0.1	2001	PSF	yes
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1.130 pep517 0.13.0

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1.133 musl 1.2.4-r2

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1.135 alpine-keys 2.4-r1

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1.136 autocommand 2.2.2

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1.137 jaraco.text 3.12.1

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1.138 distlib 0.3.6

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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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- David Barnett
- Pior Bastida
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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1.146 busybox 1.36.1-r5

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1.148 xz 5.4.3-r1

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1.149 libffi 3.4.4-r0

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1.150 alpine-baselayout 3.4.3-r1

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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

1.151 python-setuptools 65.5.1

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as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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
2.2 and above				
2.1.1		2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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1.152 keyutils 1.6.3-r1

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*/

```
# 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="8012f9d3e8671bdcbaf52f6790f6cd2f6a0510883bb40115c222c8c685aed6697ba33b3f9df8d853841cd
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
}

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>
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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"
builddir="$srcdir/$_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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1.153 bridgeutils 1.36.1-r7

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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
- * Copyrihgt (c) 2008 Timo Teras <timo.teras@iki.fi>
+ * Copyrihgt (c) 2008-2015 Timo Teras <timo.teras@iki.fi>
 * Copyright (c) 2008 Vladimir Dronnikov
 *
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@@ -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
No license file was found, but licenses were detected in source scan.

```
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 fsopts_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_fsopts.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 fsopts 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 fsopt_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 fsopts_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 && !fsopt_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:       "[-
rlf"IF_FEATURE_MTAB_SUPPORT("m")IF_FEATURE_MOUNT_LOOP("d")IF_FEATURE_UMOUNT_ALL(
"a")"] [-t FSTYPE] FILESYSTEM|DIRECTORY"
+//usage:       "[-
rlf"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 +57,7 @@
//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 +83,7 @@ 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 (!fsopts_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

1.154 sqlite 3.40.1-r1

1.154.1 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.
```

1.155 ca-certificates 20240226-r0

1.155.1 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 && $url !~ /^https:\/\/i) {
   die "The URL for '$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", "-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", "-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/^([0-9a-f]{64}) .+/$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();
  $resp = $ua->mirror($url, $txt);
  if($resp && $resp->code eq '304') {
    report "Not modified";
     exit 0 if -e $crt && !$opt_f;
  }
  else {
    $fetched = 1;
    report "Downloaded $txt";
  }
  if(!$resp || $resp->code !~ /^(?:200|304)$/) {
    report "Unable to download latest data: "
      . ($resp? $resp->code . ' - ' . $resp->message : "LWP failed");
    exit 1 if -e $crt || ! -r $txt;
  }
 }
}

my $filedate = $resp ? $resp->last_modified : (stat($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 $caname;
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 \*\*\*\*\*/);
   }
 }
 elsif(/^# (Issuer|Serial Number|Subject|Not Valid Before|Not Valid After |Fingerprint \(MD5\)|Fingerprint
\(SHA1\)):/) {
     push @precert, $_;
     $valid = 1;
     next;
 }
 elsif(/^#|^\s*$/) {
     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($1 eq "MULTILINE_OCTAL") {
         my @timestamp;
         while (<TXT>) {
             last if (/^END/);
             chomp;
             my @octets = split(/\\/);
             shift @octets;
             for (@octets) {
                 push
 @timestamp, chr(oct);
             }
         }
         # A trailing Z in the timestamp signifies UTC
         if($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: $caname is not trusted anymore" if ($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 \"(.*)\"/) {
  $caname = $1;
}
my %trust_purposes_by_level;
if ($start_of_cert && /^CKA_VALUE MULTILINE_OCTAL/) {
  $cka_value="";
  while (<TXT>) {
    last if (/^END/);
    chomp;
    my @octets = split(/\\/);
    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: $caname. Trust purpose: $1. Trust Level: $2";
      } elsif ( !is_in_list($2,@valid_mozilla_trust_levels) ) {
        report "Warning:
Unrecognized trust level for cert: $caname. 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: $caname" if ($opt_v);
  } else {
    my $data = $cka_value;
    $cka_value = "";
    my $encoded = MIME::Base64::encode_base64($data, '');
    $encoded =~ s/(.{1,${opt_w}})/$1\n/g;
    my $pem = "-----BEGIN CERTIFICATE-----\n"
            . $encoded
            . "-----END CERTIFICATE-----\n";
    print CRT "\n$caname\n";
    print CRT @precert if($opt_m);
    my $maxStringLength = length(decode('UTF-8', $caname, Encode::FB_CROAK | Encode::LEAVE_SRC));
    if ($opt_t) {
      foreach my $key (keys %trust_purposes_by_level) {
        my $string = $key . ": " . join(", ", @{$trust_purposes_by_level{$key}});
        $maxStringLength = List::Util::max( length($string), $maxStringLength
);
        print CRT $string . "\n";
      }
    }
    print CRT ("=" x $maxStringLength . "\n");
    if (!$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: $caname" if ($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
*
* Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>
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*
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*/

Found in path(s):
* /ca-certificates-20230506-tar-bz2/ca-certificates-20230506/c_rehash.c

1.156 importlib-metadata 8.0.0

1.156.1 Available under license :

UNRECOGNIZED LICENSE; MD5 sum: 67a0449e1745cb3a0d5ef058e15bb91a

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1.157 openssl 3.1.8-r0

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1.164 platformdirs 2.5.2

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1.165 openssl 3.0.7-r2

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1.166 python-pip 25.2

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

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2		2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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1.170 gettext 0.21.1-r7

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is invoked, then you must make a good faith effort to ensure that,
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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If distribution of object code is made by offering access to copy
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@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
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Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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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.

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
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directing the user to the copy of
this License. Also, you must do one
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@enumerate a
@item
Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
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user can modify the Library and then relink to produce a modified
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@item
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The source code for a work means the preferred form of the work for
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code means all the source code for all modules it contains, plus any
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@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

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

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and a brief idea of what it does.}
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@end smallexample

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under certain conditions; type `show c' for details.
@end smallexample

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

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Version 2.1, February 1999

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1.171 kerberos 1.20.1-r0

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

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1.172 python-certifi 2022.12.07

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1.174 jaraco.context 5.3.0

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1.175 musl 1.2.3-r4

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1.177 wheel 0.43.0

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1.178 ncurses 6.4_p20230506-r0

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1.179 tenacity 8.1.0

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1.180 cachecontrol 0.14.3

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1.181 python-certifi 2022.09.24

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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(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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1.182 wheel 0.38.4

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1.183 inflect 7.3.1

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1.184 pyparsing 3.0.9

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1.185 apk-tools 2.14.4-r0

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1.190 libnsl 2.0.0-r0

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1.191 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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Thanks to the many outside volunteers who have worked under Guido's
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1.192 busybox 1.35.0-r29

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1.193 truststore 0.10.1

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1.194 dataclasses-json 0.6.7

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1.195 expat 2.5.0-r0

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1.196 python-certifi 2025.07.14

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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
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.197 alpine-baselayout 3.4.0-r0

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```
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"

_builddir="$srcdir/$_pkgreal-$pkgver"

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

build() {
 cd "$_builddir"
 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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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"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
```

```
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

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

package() {
 cd "$_builddir"
 make DESTDIR="$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="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  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"

_builddir="$srcdir"/$_pkgname-$pkgver

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

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

package() {
 cd "$_builddir"
 python setup.py install --prefix=/usr --root="$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"

1.198 aiosignal 1.4.0

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