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

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

lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
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lib/gssapi/mechglue/g_inquire_cred.c
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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
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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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1.4 idna-ssl 1.1.0

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1.5 visual-studio-runtime 10.0

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1.8 alpine-keys 2.4-r1

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1.9 jsonschema 3.2.0

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1.10 importlib-metadata 4.11.1

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1.11 python3-asn1crypto 1.5.1

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1.12 gdbm 1.23-r0

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1.13 ordered-set 4.1.0

1.13.1 Available under license :

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1.14 keyutils 1.6.3-r1

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```
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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"
buildid="srcdir/${_pkgreal}-${pkgver}"

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

check() {
    make test
}

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

```

}

sha512sums="8012f9d3e8671bdcba52f6790f6cd2f6a0510883bb40115c222c8c685aed6697ba33b3f9df8d853841cd
2eef0806d919c9038b6ba7b1057f475b3b63457069d
  Software-License-0.103014.tar.gz"
# Maintainer: Adelle Platform Group <adelle-devel@lists.adelinelinux.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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SQLite is in the
Public Domain

```

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Hwaci
6200 Maple Cove Lane
Charlotte, NC 28269
USA

A template copyright release is available in PDF or HTML. You can use this release to make future changes.

see <http://www.sqlite.org/copyright.html>

```

# Contributor: Sheila Aman <sheila@vulpine.house>
# Maintainer: Adlie Perl Team <adelie-perl@lists.adelielinux.org>
pkgname=perl-string-copyright
_pkgreal=String-Copyright
_author=JONASS
_au=${_author%%"${_author#?}" }
_a=${_author%%"${_author#?}" }
pkgver=0.003006
pkgrel=0
pkgdesc="Perl module for normalizing copyright text"
url="https://metacpan.org/pod/String::Copyright"
arch="noarch"
license="GPL-3.0+"
depends="perl perl-exporter-tiny perl-number-range"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/${_a}/${_au}/${_author}/${_pkgreal}-${pkgver}.tar.gz"
buildid="$srcdir/${_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}/${_pkgreal}-${_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="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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1.15 libnsl 2.0.0-r0

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Version 2.1, February 1999

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1.18 urllib3 1.26.12

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1.20 chardet 5.0.0

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1.23 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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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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

*/

1.24 apk-tools 2.12.10-r1

1.24.1 Available under license :

```
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1.25 expat 2.5.0-r0

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1.27 python-setuptools 65.5.1

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

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

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

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

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

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

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

Please avoid changing it manually.

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

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```
-  
- `__init__.py`  
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`validate-pyproject`

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

@item

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.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections

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collective works based on the 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.

@item

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

However, linking a ``work that uses the Library'' with the Library

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

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

@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 work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

@enumerate a

@item

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

@item

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

@item

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

@item

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.

@item

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

@end enumerate

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

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@enumerate a

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

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

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smallexample

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@smallexample

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

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

Ty Coon, President of Vice

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@center Version 2, June 1991

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@c hence no sectioning command or @node.

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@end enumerate

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@enumerate a

@item

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@item

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,

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@iftex

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@end iftex

@ifinfo

@center

NO WARRANTY

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@end iftex

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@page

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

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@smallexample

@var{one line to give the program's name
and a brief idea of what it does.}

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@end smallexample

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

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

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

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

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- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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Version 2.1, February 1999

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1.33 cpp 12.2.1_git20220924-r4

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

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1.34 musl 1.2.3-r4

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1.35 e2fsprogs 1.46.5-r4

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

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

all:: image

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

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

image: \$(BSD_LIB)

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

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

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

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

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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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.

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., 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 available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at <http://e2fsprogs.sourceforge.net>. If you need to make a distribution, 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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Preamble

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using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

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 software, or if you modify it.

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

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered

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.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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

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

- a) 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:

- a) 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; or,
- 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.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

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

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.

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Version 2, June 1991

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

Preamble

The licenses for most software are designed to take away your 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.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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.

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

Activities

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the

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

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

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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1.36 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 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
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	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
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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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=====
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=====

The Distutils2 project was started by Tarek Ziad and is currently
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distlib has started off using some of the code from distutil2.

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1.38 pep517 0.13.0

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1.39 bzip2 1.0.8-r4

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

1.40 alpine-baselayout 3.4.0-r0

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

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

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

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

package() {
    cd "$_buildddir"
    make
    DESTDIR="$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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95052.

```
# Automatically generated by apkbuidl-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bud-resource
_pkgreal=Bud-Resource
pkgver=1.2909
pkgrel=0
pkgdesc="Perl extension implements the Bud process resource limit functions"
url="http://search.cpan.org/dist/Bud-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
```

```

depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/${_pkgreal}-${pkgver}.tar.gz"

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

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

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

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

md5sums="3c6dd2fa953088aa87e263f40818d012 BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06 BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cce2bd40a429fa430 BSD-Resource-1.2909.tar.gz"
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pkgname=py-flake8-copyright

_pkgname=flake8-copyright

pkgver=0.1

pkgrel=1

pkgdesc="Extension for flake8 which checks for copyrights"

url="https://github.com/savoirfairelinux/flake8-copyright"

arch="noarch"

```

license="MIT"
depends="python flake8"
depends_dev=""
makedepends="python-dev py-setuptools"
install=""
subpackages=""
source="http://pypi.python.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"

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

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

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

md5sums="8fab17d27f0b417c44ea0bebf579d71b flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7ba8d7b063493c9ed5af9985b2da77807be94bf9e65823b
    flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e
0f23797c1a356abcf242e9f556b979b75e3a8bfe46 flake8-copyright-0.1.tar.gz"
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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"

```

1.41 busybox 1.35.0-r29

1.41.1 Available under license :

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.43 zlib 1.2.13-r1

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1.44 xz 5.2.9-r0

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1.45 kerberos 1.20.1-r0

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cmd/krb5/slave/kpropd_rpc.c
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lib/libgss/g_seal.c
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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
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c

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

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

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

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1.46 util-linux 2.38.1-r1

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/* c_rehash.c - Create hash symlinks for certificates

* C implementation based on the original Perl and shell versions

*

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1.48 openssl 3.0.7-r2

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free software which everyone can redistribute and change under these
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"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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```
Gnomovision version 69, Copyright (C) 19xx 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 a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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1.49 urllib3 1.26.14

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1.50 python-requests 2.28.2

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1.51 sqlite 3.40.1-r0

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1.52 e2fsprogs 1.46.6-r0

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes
-
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Upstream-Name: e2fsprogs

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

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

Comment:

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

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lib/e2p/*

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August 26, 2011 Darrick J. Wong <djwong at us.ibm.com>

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

.

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

...

Oct 15, 2000 Matt Domsch <Matt_Domsch@dell.com>

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Files: e2fsck/*

debugfs/do_journal.c

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lib/support/plausible.c

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```
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```

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```
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```

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

That's all there is to it!

#

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

```

#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

$(BSD_LIB): $(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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```

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1.53 python-pip 23.0.1

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This package contains a modified version of ca-bundle.crt:

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

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

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
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<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore
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Just configure this file as the SSLCACertificateFile.#

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

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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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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
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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.

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1.54 geos 3.11.1-r0

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```
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```
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```

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1.57 gdbm 1.23-r1

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

1.59 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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Any

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.60 e2fsprogs 1.47.0-r2

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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- + trivial database library - standalone version

- trivial database library - private includes
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Upstream-Name: e2fsprogs

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

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

Comment:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were

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

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

...

Oct 15, 2000 Matt Domsch <Matt_Domsch@dell.com>

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Files: e2fsck/*

debugfs/do_journal.c

debugfs/journal.*

debugfs/logdump.c

debugfs/xattrs.c

lib/support/plausible.c

misc/fuse2fs.c

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Theodore Ts'o
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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>

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

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

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

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

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

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

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

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

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

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Activities

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compelled
to copy the source along with the object code.

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

That's all there is to it!

#

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

#

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

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic


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

```
BSDLIB_PIC_FLAG = -fpic
```

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

```
$(BSD_LIB): $(OBS)
```

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

```
$(MV) pic/$(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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1.61 libverto 0.3.2-r2

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1.62 keyutils 1.6.3-r3

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Appendix: How to Apply These Terms to Your New Programs

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

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

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.

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Version 2.1, February 1999

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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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.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

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

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1.63 pax-utils 1.3.7-r1

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

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1.65 ca-certificates 20230506-r0

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

Found in path(s):

```
* /ca-certificates-20230506-tar-bz2/ca-certificates-20230506/c_rehash.c
```

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```

Found in path(s):

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

1.66 ncurses 6.4_p20230506-r0

1.66.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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

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-- vile:txtmode fc=72

-- \$Id: COPYING,v 1.12 2023/01/07 17:55:53 tom Exp \$

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1.67 xz 5.4.3-r0

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The

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```
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1.68 apk-tools 2.14.0-r2

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1.69 alpine-baselayout 3.4.3-r1

1.69.1 Available under license :

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

/*

* Create mount directories in fstab

*
* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>
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*
* usage: mkmntdirs [fstab]
*
*/

Found in path(s):

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

1.70 geos 3.11.2-r0

1.70.1 Available under license :

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@item

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

@enumerate a

@item

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@item

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

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You must

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@item

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.)
@end enumerate

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.

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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.

@item

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

@item

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

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

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

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

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

@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 work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

@enumerate a

@item

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

@item

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

@item

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

@item

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.

@item

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

@end enumerate

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

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@enumerate a

@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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

@smallexample

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

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@end
smallexample

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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@enumerate 0

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Whether that is true depends on what the Program does.

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@enumerate a

@item

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that you changed the files and the date of any change.

@item

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.

@item

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.)

@end enumerate

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.

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@enumerate a

@item

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; or,

@item

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,

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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.)

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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.

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@iftex

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@end iftex

@ifinfo

@center

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

@ifinfo

@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

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

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

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

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

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it under the terms of the GNU General Public License as published by
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@end smallexample

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:

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

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than @samp{show w} and
@samp{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:

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

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice
@end example

This General

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1.73 ncurses 6.3_p20221119-r1

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

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Files: install-sh

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

1.74 libtirpc 1.3.3-r2

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1.75 openssl 1.1.1u-r1

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1.76 util-linux 2.38.1-r8

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```
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1.82 python-setuptools 65.5.0

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Python was created in the early 1990s by Guido van Rossum at Stichting

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

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

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

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

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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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```
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```

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`fastjsonschema`
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`validate-pyproject`

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1.84 python-certifi 2022.12.07

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This package contains a modified version of ca-bundle.crt:

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

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

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

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

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

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1.85 python-pip 22.3.1

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

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<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.

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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
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
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Version 2.1, February 1999

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1.86 python-certifi 2022.09.24

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

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

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

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

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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1.89 kafka-python 2.0.2

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1.91 more-itertools 10.2.0

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1.92 zlib 1.2.3

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1.93 zlib 1.2.8

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1.94 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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1.95 openssl 3.1.4-r5

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<signature of Ty Coon>, 1 April 1989
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1.96 pytz 2024.1

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1.97 tzdata 2024a-r0

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1.98 sqlite 3.41.2-r3

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1.99 pyyaml 6.0.1

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1.100 cryptography 42.0.5

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1.101 ca-certificates 20240226-r0

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```
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# *****
# *
# *      _ _ _ _ _
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# *****
# 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\t\no download of certdata.txt (to use existing)\n";
print wrap("\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 Valid purposes are:\n";
print wrap("\t", "\t", join( " ", "ALL", @valid_mozilla_trust_purposes ) ), "\n";
print "\t Valid levels are:\n";
print wrap("\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", "-s\tcomma separated list of certificate signatures/ hashes to output in plain text mode. (default:
$default_signature_algorithms)\n");
print "\t Valid signature algorithms are:\n";
print wrap("\t", "\t",
    join( " ", "ALL", @valid_signature_algorithms ) ), "\n";
print "\t-t\tinclude plain text listing of certificates\n";
print "\t-u\tunlink (remove) certdata.txt after processing\n";
print "\t-v\tbe verbose and print out processed CAs\n";
print "\t-w <l>\twrap base64 output lines after <l> chars (default: ${opt_w})\n";
exit;
}

```

```

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

```

```

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

```

```

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

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

```

```

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

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

```

```

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

    my @values = map {

```

```

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

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

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

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

return @values;
}

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

sub oldhash {
    my $hash = "";
    open(C, "<$_[0]") || return 0;
    while(<C>) {
        chomp;
        if($_ =~ /\s#\s 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\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 \"(.*)\"/) {
```

```

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

if ( !should_output_cert(%trust_purposes_by_level) ) {
    $skipnum ++;
    report "Skipping: $scaname" if ($opt_v);
} else {
    my $data = $ska_value;
    $ska_value = "";
    my $encoded = MIME::Base64::encode_base64($data, "");
    $encoded =~ s/(\.|\{1,$\{opt_w\}})/$1\n/g;
    my $pem = "-----BEGIN CERTIFICATE-----\n"
        . $encoded
        . "-----END CERTIFICATE-----\n";
    print CRT "\n$scaname\n";
    print CRT @precert if($opt_m);
    my $maxLength = length(decode('UTF-8', $scaname, Encode::FB_CROAK | Encode::LEAVE_SRC));
    if ($opt_t) {
        foreach my $key (keys %trust_purposes_by_level) {
            my $string = $key . ": " . join(" ", @{$trust_purposes_by_level{$key}});

```

```

    $maxStringLength = List::Util::max( length($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: $aname" if ($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 Teras <timo.teras@iki.fi>
* All rights reserved.
*
* This software is licensed under the MIT License.
* Full license available at: http://opensource.org/licenses/MIT
*/

```

Found in path(s):

* /ca-certificates-20230506-tar-bz2/ca-certificates-20230506/c_rehash.c

1.102 expat 2.6.2-r0

1.102.1 Available under license :

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1.103 sqlite 3.40.1-r1

1.103.1 Available under license :

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1.104 importlib_resources 6.4.0

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1.114 tomli 2.0.1

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1.115 pycparser 2.21

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1.117 apk-tools 2.12.14-r0

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1.125 zipp 3.19.2

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1.126 busybox 1.35.0-r31

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.127 wheel 0.43.0

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1.128 python-setuptools 70.3.0

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```
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```

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`fastjsonschema`
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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	2.0+1.6.1	2001	PSF	no
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1.132 platformdirs 4.2.2

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1.133 urllib3 1.26.20

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1.134 importlib_resources 6.4.5

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1.135 protobuf 5.28.2

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1.136 semver 2.13.0

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Python SemVer library

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..

Local variables:

coding: utf-8

mode: text

mode: rst

End:

vim: fileencoding=utf-8 filetype=rst :

1.137 openssl 3.0.15-r1

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

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

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1.138 expat 2.6.4-r0

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1.139 tomli 2.2.1

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1.140 bridgeutils 1.35.0-r31

1.140.1 Available under license :

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```
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*  
*/
```

Found in path(s):

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

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

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
```

```

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*

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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*)l1st_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

```

1.141 bridgeutils 1.36.1-r7

1.141.1 Available under license :

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

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

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

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

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

```
diff --git a/modutils/Config.src b/modutils/Config.src
index 188296814..7a4c037ad 100644
--- a/modutils/Config.src
+++
b/modutils/Config.src
@@ -152,6 +152,15 @@ config FEATURE_MODUTILS_ALIAS
```

Say Y if unsure.

```
+config FEATURE_MODUTILS_BIN
+ bool "Support for the kmod .bin file format"
+ default n
+ depends on DEPMOD && !MODPROBE_SMALL
+ help
+   Generate kmod compatible binary index files for .dep, .alias,
+   .symbols and .builtin files. Allows mixing use of busybox
+   modutils and kmod (binaries and library).
+
+config FEATURE_MODUTILS_SYMBOLS
+ bool "Support module.symbols file"
+ default y
diff --git a/modutils/depmod.c b/modutils/depmod.c
index bb42bbefe..9b034db0a 100644
```

```

--- a/modutils/depmod.c
+++ b/modutils/depmod.c
@@ -2,7 +2,7 @@
/*
 * depmod - generate modules.dep
 * Copyright (c) 2008 Bernhard Reutner-Fischer
- * Copyright (c) 2008 Timo Teras <timo.teras@iki.fi>
+ * Copyright (c) 2008-2015 Timo Teras <timo.teras@iki.fi>
 * Copyright (c) 2008 Vladimir Dronnikov
 *
 * Licensed under GPLv2 or later, see file LICENSE in this source tree.
@@ -25,6 +25,24 @@
#include "modutils.h"
#include <sys/utsname.h> /* uname() */

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

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

```

```

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

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

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

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

```

```

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

```



```

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

```

```

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

```

```

static int read_config(const char *path);

```

```

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

```

```

- }
- }
- return opts;
-}
-
static struct module_entry *get_or_add_modentry(const char *module)
{
    return moddb_get_or_create(&G.db, module);
}
diff --git a/modutils/modutils.c b/modutils/modutils.c
index 037d609e4..502ad5422 100644
--- a/modutils/modutils.c
+++ b/modutils/modutils.c
@@ -67,6 +67,21 @@ void FAST_FUNC moddb_free(module_db *db)
}

+char * FAST_FUNC gather_options_str(char *opts, const char *append)
+{
+    /* Speed-optimized. We call gather_options_str many times. */
+    if (append) {
+        if (opts == NULL) {
+            opts = xstrdup(append);
+        } else {
+            int optlen = strlen(opts);
+            opts = xrealloc(opts, optlen + strlen(append) + 2);
+            sprintf(opts + optlen, " %s", append);
+        }
+    }
+    return opts;
+}
+
void FAST_FUNC replace(char *s, char what, char with)
{
    while (*s) {
@@ -76,6 +91,22 @@ void FAST_FUNC replace(char *s, char what, char with)
}

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

```

```

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

+/* .bin index format definitions */
+#define INDEX_MAGIC 0xB007F457
+#define INDEX_VERSION_MAJOR 0x0002
+#define INDEX_VERSION_MINOR 0x0001
+#define INDEX_VERSION ((INDEX_VERSION_MAJOR<<16)|INDEX_VERSION_MINOR)
+
+enum node_offset {
+ INDEX_NODE_FLAGS = 0xF0000000, /* Flags in high nibble */
+ INDEX_NODE_PREFIX = 0x80000000,
+ INDEX_NODE_VALUES = 0x40000000,
+ INDEX_NODE_CHILDS = 0x20000000,
+ INDEX_NODE_MASK = 0x0FFFFFFF, /* Offset value */
+};
+
typedef struct module_entry {
    struct module_entry *next;
    char *name, *modname;
@@ -47,7 +61,9 @@ module_entry *moddb_get(module_db *db, const char *s) FAST_FUNC;
module_entry *moddb_get_or_create(module_db *db, const char *s) FAST_FUNC;
void moddb_free(module_db *db) FAST_FUNC;

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

```

Found in path(s):

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

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

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

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

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

MIME-Version: 1.0

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

Content-Transfer-Encoding: 8bit

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

At Alpine, this feature is often requested

by users as the OpenRC

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

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

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

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

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

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

include/libbb.h | 1 +
libbb/Kbuild.src | 1 +
libbb/match_fsopts.c | 69 +++++++++++++++++++++++++++++++++++++++
util-linux/umount.c | 10 +++++--
4 files changed, 78 insertions(+), 3 deletions(-)
create mode 100644 libbb/match_fsopts.c

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

index cca33a177..ad41adec8

100644

--- a/include/libbb.h

```

+++ b/include/libbb.h
@@ -1586,6+1586,7 @@ const struct hwtype *get_hwntype(int type) FAST_FUNC;

extern int fstype_matches(const char *fstype, const char *comma_list) FAST_FUNC;
+extern int fsops_matches(const char *opts_list, const char *reqopts_list) FAST_FUNC;
#ifdef HAVE_MNTENT_H
extern struct mntent *find_mount_point(const char *name, int subdir_too) FAST_FUNC;
#endif
diff --git a/libbb/Kbuild.src b/libbb/Kbuild.src
index 653025e56..4bb8260b9 100644
--- a/libbb/Kbuild.src
+++ b/libbb/Kbuild.src
@@ -120,6+120,7 @@ lib-y += xrealloc_vector.o

lib-$(CONFIG_MOUNT) += match_fstype.o
lib-$(CONFIG_UMOUNT) += match_fstype.o
+lib-$(CONFIG_UMOUNT) += match_fsops.o

lib-$(CONFIG_FEATURE_UTMP) += utmp.o

diff --git a/libbb/match_fsops.c b/libbb/match_fsops.c
new file mode 100644
index 000000000..b1cc85c3c
--- /dev/null
+++ b/libbb/match_fsops.c
@@ -0,0+1,69 @@
+/* vi: set sw=4 ts=4: */
+/*
+ * Match fsops for use in mount unmount -O.
+ *
+ *
+ * Returns 1 for a match, otherwise 0.
+ *
+ * Licensed under GPLv2 or later, see file LICENSE in this source tree.
+ */
+#include "libbb.h"
+
+static int fsop_matches(const char *opts_list, const char *opt, size_t optlen)
+{
+    int match = 1;
+
+    if (optlen >= 2 && opt[0] == 'n' && opt[1] == 'o') {
+        match--;
+        opt += 2; optlen -= 2;
+    }
+}

```

```

+ /* The alone "no" is an error, all matching ends with False. */
+ if (optlen == 0)
+ return 0;
+
+ /* The "no" prefix interpretation can be disabled by the "+" prefix. */
+ if (match && optlen > 1 && *opt == '+') {
+ opt++; optlen--;
+ }
+
+ while (1) {
+ if (strncmp(opts_list, opt, optlen) == 0) {
+ const char *after_opt = opts_list + optlen;
+ if (*after_opt == '\0' || *after_opt == ',')
+ return match;
+ }
+
+ opts_list = strchr(opts_list, ',');
+ if (!opts_list)
+ break;
+ opts_list++;
+ }
+
+ return !match;
+}
+
+/* This function implements the mnt_match_options function from libmount. */
+int FAST_FUNC 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:      "[-
rIf"IF_FEATURE_MTAB_SUPPORT("m")IF_FEATURE_MOUNT_LOOP("d")IF_FEATURE_UMOUNT_ALL(
"a")"] [-t FSTYPE] FILESYSTEM|DIRECTORY"
+//usage:      "[-
rIf"IF_FEATURE_MTAB_SUPPORT("m")IF_FEATURE_MOUNT_LOOP("d")IF_FEATURE_UMOUNT_ALL(
"a")"] [-t FSTYPE] [-O FSOPT] FILESYSTEM|DIRECTORY"
//usage:#define umount_full_usage
"\n\n"
//usage:      "Unmount filesystems\n"
//usage: IF_FEATURE_UMOUNT_ALL(
@@ -57,6 +57,7 @@
//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

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```
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* 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

1.142 kerberos 1.20.2-r1

1.142.1 Available under license :

[NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows.]

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cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech_spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c

lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

Sun's

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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/iprof_hdr.h
kadmin/server/iprof_svc.c
lib/kdb/iprof.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.144 packaging 24.1

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1.146 distro 1.9.0

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1.147 jinja 3.1.3

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- * Trolling, insulting/derogatory comments, and personal or political attacks
- * Public or private harassment
- * Publishing others' private information, such as a physical or electronic address, without explicit permission
- * Other conduct which could reasonably be considered inappropriate in a professional setting

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Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed

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Enforcement

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1.148 cffi 1.16.0

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1.150 idna 3.6

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1.151 importlib-metadata 8.5.0

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1.159 ca-certificates 20241121-r1

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 * C implementation based on the original Perl and shell versions
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pkgname=ca-certificates
pkgver=20241121
pkgrel=1
pkgdesc="Common CA certificates PEM files from Mozilla"
url="https://www.mozilla.org/en-US/about/governance/policies/security-group/certs/"
arch="all"
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1.161 distro 1.7.0

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- * <https://github.com/asottile>
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- * <https://github.com/funkyfuture>
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1.162 marshmallow 3.26.1

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1.163 openssl 3.1.8-r0

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1.164 musl 1.2.4-r3

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* Implementation of SUSv4 XCU iconv utility

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1.165 musl 1.2.3-r6

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1.166 simple launcher 1.1.0.14

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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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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
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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
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- Victor Stinner
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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`:

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

Downloads

=====

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

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

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

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

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

Using Setuptools and EasyInstall

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

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

Questions, comments, and bug reports should be directed to the `distutils-sig` mailing list_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working,

tested patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: <http://bugs.python.org/setuptools/>
.. _Package Compatibility Notes: <http://peak.telecommunity.com/DevCenter/PackageNotes>
.. _The Internal Structure of Python Eggs: <http://peak.telecommunity.com/DevCenter/EggFormats>
.. _The setuptools Developer's Guide: <http://peak.telecommunity.com/DevCenter/setuptools>
.. _The pkg_resources API reference: <http://peak.telecommunity.com/DevCenter/PkgResources>
.. _The EasyInstall user's guide and reference manual: <http://peak.telecommunity.com/DevCenter/EasyInstall>
.. _distutils-sig mailing list: <http://mail.python.org/pipermail/distutils-sig/>

Credits

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

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

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

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

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

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

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Platform: UNKNOWN

Classifier: Development Status :: 3 - Alpha

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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.

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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)
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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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.171 expat 2.7.0-r0

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1.172 tzdata 2025b-r0

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1.174 truststore 0.10.1

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1.176 mypy_extensions 1.1.0

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1.179 python-requests 2.32.4

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1.182 platformdirs 4.3.8

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1.183 wheel 0.45.1

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1.184 cachecontrol 0.12.11

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1.185 more-itertools 8.8.0

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1.186 pyproject-hooks 1.0.0

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1.187 platformdirs 2.6.2

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1.188 pyproject-hooks 1.2.0

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1.189 wheel 0.38.4

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1.190 platformdirs 2.5.2

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1.191 aiosignal 1.4.0

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1.192 python-certifi 2025.07.14

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This package contains a modified version of ca-bundle.crt:

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

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: <https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt> It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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

1.193 distlib 0.4.0

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* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/README.md

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* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/View.cpp

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/magic.c

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/Bucket.hpp

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/SwimClient.hpp

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* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/server_demo.cpp

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/MerkleNode.hpp

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/tests/test_merkle.cpp

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/SwimClient.cpp

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/tests/test_view.cpp

*

/massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/View.hpp

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/tests/test_bucket.cpp

* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/network.h

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1.194 typing-extensions 4.12.2

1.194.1 Available under license :

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.

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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		
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1.195 typeguard 4.3.0

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1.196 python 3.10.9

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A. HISTORY OF THE SOFTWARE

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

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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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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
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.197 python-pip 25.2

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

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

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

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

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

1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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3.1.2	3.1	2010	PSF	yes
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1.198 openssl 3.2.1

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1.199 typing-extensions 4.15.0

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

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

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- (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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