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1.315 @xterm/xterm 5.5.0
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1.316 uniseg v0.4.7
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1.317 socket v0.5.1
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1.318 @xterm/addon-canvas 0.7.0
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1.323 @xterm/addon-attach 0.11.0
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1.326 go-runewidth v0.0.16
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1.344 libcaca 0.99.beta20-4build2
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1.7 yaml v1.0.1-0.20190212211648-25d852aebe32

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1.8 gojsonpointer v0.0.0-20190905194746-02993c407bfb

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1.10 go-shlex v0.0.0-20200514113438-38f4b401e2be

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1.12 gojsonreference v0.0.0-20180127040603-bd5ef7bd5415

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1.15 pyasn1 0.4.8

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

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

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

What is ASN.1

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

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

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

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

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

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

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

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

ASN.1 applications

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

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

ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

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

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

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
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  /download

Changes

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

..

```
 toctree::
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  /changelog
```

License

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

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  /license
```

Getting help

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

Books on ASN.1

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

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

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

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

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

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

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

book on the subject.

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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
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blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

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

Features
----

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

Why using pyasn1

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

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

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

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

How to use pyasn1

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

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

Could be expressed in pyasn1 like this:

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

```
      ),
      DefaultedNamedType(
         'house',
 Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
         )
      )
   )
```

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

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

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

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

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

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
```

```
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

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

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

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

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

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

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

How to get pyasn1

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

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

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

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1.16 pythondialog 3.5.3

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Sphinx AUTHORS file
==========

Sphinx is written and maintained by Georg Brandl <georg@python.org>.

Substantial parts of the templates were written by Armin Ronacher
<armin.ronacher@active-4.com>.

Other contributors, listed alphabetically, are:

* Andi Albrecht -- agogo theme
* Henrique Bastos -- SVG support for graphviz extension
* Daniel Bltmann -- todo extension
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 Desautels -- apidoc module
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* Dave Kuhlman -- original LaTeX writer
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* Thomas Lamb -- linkcheck builder

* ukasz Langa -- partial support for autodoc
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* Dan MacKinlay -- metadata fixes
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* Roland Meister -- epub builder
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* Benjamin Peterson -- unittests
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* Barry Warsaw -- setup command improvements
* Sebastian Wiesner -- image handling, distutils support
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Many thanks for all contributions!

There are also a few modules or functions incorporated from other
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* sphinx.util.jsdump uses the basestring encoding from simplejson,
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Local Variables:
coding: utf-8
fill-column: 70
End:

1.17 ldap 2.9.1

1.17.1 Available under license :

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Arcata, CA 95521-4884

grady@netcom.com
grady@northcoast.com

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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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contributor to the ENABLE word list, given me an incredible amount of
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1.21 python-httplib2 0.20.4-3

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1.22 libjpeg 8c-2ubuntu11

1.22.1 Available under license :

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1.23 python-oauthlib 3.2.2-1

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1.24 x-kit 0.5.0ubuntu6

1.24.1 Available under license :

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1.41 lazr-uri 1.0.6-3

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1.42 networkd-dispatcher 2.2.4-1

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1.44 mitt 3.0.1

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1.46 wcwidth 0.2.13

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1.47 shim-signed 1.58

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Source: https://github.com/mjg59/shim.git

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1.48 sniffio 1.3.1

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1.49 pycparser 2.22

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1.51 sysv-init 3.08-6ubuntu3

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That's all there is to it!

1.54 keyutils 1.6.3-3build1

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

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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.

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

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

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

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

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Comment: CDebConf includes ideas and code from:
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1.72 grep 3.11-4build1

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the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
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copy of the Corresponding Source for all the software in the
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
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1.73 ubuntu-keyring 2023.11.28.1

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1.75 bash 5.2.21-2ubuntu4

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1.80 libassuan 2.5.6-1build1

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1.83 libmnl 1.0.5-2build1

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1.87 libglvnd 1.7.0-1build1

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1.92 liblocale-gettext-perl 1.07-6ubuntu5

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Locale::gettext
version 1.07

This is a perl5 module quickly written to gain access to
the C library functions for internatialization. They
work just like the C versions.

As of version 1.04, an object oriented interface more
suitable to native Perl programs is available.

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Changes

1.07 Fix test failures caused by $LANGUAGE being set

1.06 Bugfix: #104667 Makefile.PL libaries need to be listed after .o files
Bugfix: #104668 ensure availability of locale API, correct typo in documentation
Add META.yml (Fixes #91921)

1.05 Bugfix: [cpan #13042] useless #ifdef should be #if
Bugfix: [cpan #13044] make test fails when using POSIX locale

1.04 Add several
functions provided by the GNU gettext library
Create object oriented interface

1.03 Fix error in README file

1.02 Include a License

1.01 Changed from "gettext" to "Locale::gettext" (i.e.
moved under Locale::) on the advice of several
people

Small "lint" fix from schwern@starmedia.net

1.00 Initial version

TODO

A TIEHASH interface

Here's a quick tutorial.

Note that your vendor's implementation of these functions
may be a bit different, but I think that in general these
are quite standard POSIX functions.

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Mlink Internet <http://www.Mlink.NET>
July 1996

INTERNATIONALIZING YOUR PROGRAM

Step 1

If you've already written your code, you need to
wrap the gettext() function around all of the
text strings. Needless to say, this is much easier if
you do it while you write.

```
# create object for oo interface
my $d = Locale::gettext->domain("my_program");

print "Welcome to my program\n";

# oo
print $d->get("Welcome
 to my program"), "\n";

# traditional
print gettext("Welcome to my program"), "\n";
```

Note that you probably don't want to include that newline
in the gettext() call, nor any formatting codes such as
HTML tags. The argument to gettext() is the text string
in the default language or locale. This is known as the
C locale and should probably be usually English.

Step 2

Do the apropriate initializations at the beginning of your
program:

```
#
use POSIX;     # for setlocale()
use Locale::gettext;
#
# The following statement initializes the locale handling
# code in the C library. Normally, it causes it to read
# in the environment variables that determine the current
# locale.
#
# The first parameter is the category you would
# like to initialize locale information for. You can use
# LC_ALL for this, which will set locale information for
# all categories, including LC_CTYPE, LC_TIME, LC_NUMERIC,
# etc..
#
# I recommend that you set only LC_MESSAGES (text strings)
# or LC_CTYPE (character
 sets) and LC_TIME (time
# conventions) too at most. You may find that if you set
# LC_NUMERIC or some other categories, you will start
# outputting decimal numbers with strange thousand separators
# and decimal points and they will be unparseable in
# other countries.
```

```
#
# The second parameter is the locale name. If it is an
# empty string, then this information will be fetched from
# environment variables.
#
# Note that setlocale() will cause every part of your
# program to start operating in the new, non default (C)
# locale, including C library functions. So don't be
# surprised if POSIX::ctime returns "Montag, 22. Juli 1996,
# 12:08:25 Uhr EDT" instead of "Mon Jul 22 12:08:25 EDT 1996"
# If you set LC_TIME or LC_ALL using setlocale().
#
setlocale(LC_MESSAGES, "");
#
# Decide on a unique identifier that will distinguish your
# program's text strings in the LC_MESSAGES database. This
# would usually be the name of your program
#
# By default, locale information is found in OS dependant
#
 system directories such as /usr/lib/locale, or any directory
# found in the $PATH-like environment variable $NLSPATH.
# I recommend that you do _not_ install files in /usr. If
# your program is installed in a directory tree such as
# /opt/my_package_name/{bin,man,lib,etc}, then you could
# use /opt/my_package_name/locale to store locale information
# specific to your program, or you could put in somewhere
# in /usr/local/lib.
#
# Wherever you put it, if it is not one of the default
# directories, you will need to call bindtextdomain() to
# tell the library where to find your files. The first
# parameter is your database's identifier that you chose
# above.
#
# oo interface:

my $d = Locale::gettext->domain("my_domain");
$d->dir("/opt/my_package_name/locale");

# traditional interface:
bindtextdomain("my_domain", "/opt/my_package_name/locale");
textdomain("my_domain");

# That's it for the initializations
```

Step 3

Test to see if your program still works after all these
mods :-)

Step 4

TRANSLATE!

Read msgfmt(1) for details on this. Basically, for each locale
other than the default, you need to create a file like this:
(Note: I do not speak German, I'm making an attempt here :-)
Call this file with the .po extension.

--BEGIN
domain "my_domain"

msgid "Welcome to my program"
msgstr "Willkommen in mein Program"

msgid "Help"
msgstr "Hilfe"
--END

The "msgid" parameter must match exactly the argument to the
gettext() function, and "msgstr" is the corresponding translation.

You can use the xgettext(1) utility to initially construct this
file from all of the gettext() calls in your source code. It was
designed for C but it works OK with perl.

Step 5

Compile the .po file

$ msgfmt my_file.po

This will create a file called my_domain.mo (default messages.mo)
which you should place in the <locale>/LC_MESSAGES/my_domain.mo
subdirectory of either a system default directory, a directory
in $NLSPATH, or the directory argument to bindtextdomain().
Replace
<locale> with the name of the locale for which this file
is created.

For example:

$ mkdir -p /opt/my_package/locale/de/LC_MESSAGES
$ mkdir -p /opt/my_package/locale/fr/LC_MESSAGES
$ cd /path/to/my/source/code
$ cd de
$ msgfmt my_domain.po
$ mv my_domain.mo /opt/my_package/locale/de/LC_MESSAGES
$ cd ../fr
$ msgfmt my_domain.po
$ mv my_domain.mo /opt/my_package/locale/fr/LC_MESSAGES

Step 6

Test it out

$ my_program
Welcome to my program
$ LANG=fr my_program
Bienvenue à mon programme
$ LANG=de my_program
Willkommen in mein Program

(Or, set only the messages category instead of the whole locale)

$ LC_MESSAGES=fr
$ export LC_MESSAGES
$ my_program
Bienvenue à mon programme

Found in path(s):
* /liblocale-gettext-perl-1-07-orig-1-tar-gz/Locale-gettext-1.07/README
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl bindings for POSIX i18n gettext functions'
author:
 - 'Kim Vandry <vandry.ORG>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Locale-gettext

no_index:
 directory:
  - t
  - inc
requires: {}
resources:
 license: http://dev.perl.org/licenses/
 repository: https://github.com/vandry/Perl-Locale-gettext
version: 1.07

Found in path(s):
* /liblocale-gettext-perl-1-07-orig-1-tar-gz/Locale-gettext-1.07/META.yml

1.93 libxshmfence 1.3-1build5

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- cJSON.c, cJSON.h

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#+end_quote
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1.97 cracklib 2.9.6-5.1build2

1.97.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-13 source package is taken from the git gcc-13-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language Compiler package Library package Documentation

Ada
  gnat-13 libgnat-13 gnat-13-doc
C gcc-13 gcc-13-doc
C++ g++-13 libstdc++6 libstdc++6-13-doc
D gdc-13
Fortran 95 gfortran-13 libgfortran5 gfortran-13-doc
Go gccgo-13 libgo0
Objective C gobjc-13 libobjc4
Objective C++ gobjc++-13
Modula-2 gm2-13 libgm2

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

Language Sources Development Debugging Position-Independent

C++ libstdc++6-13-dbg libstdc++6-13-pic
D libphobos-13-dev

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-13-base
Base files common to all compilers
gcc-13-soft-float Software floating point (ARM only)
gcc-13-source The sources with patches

Ada:
libgnat-util13-dev, libgnat-util13 GNAT version library

C:
cpp-13, cpp-13-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code,
Debian provides additional packages containing 32-bit versions of some
libraries. These packages have names beginning with 'lib32' instead of
'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which
can also run 64-bit code, Debian provides additional
packages with names
beginning with 'lib64' instead of 'lib'. These packages contain 64-bit
versions of the libraries. (At this time, not all platforms and not all
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  gcc/emults.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgcov.c,
  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-13 Ada support library and libgnat-util13 library.
- Various config files in gcc/config/
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Developed by:

LLVM Team

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copysignq.c, coshq.c, cosq.c, erfq.c, fabsq.c, finiteq.c, floorq.c,
fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c,
nextafterq.c, powq.c, remainderq.c,
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D:
gdc-13 GNU D Compiler
libphobos-13-dev D standard runtime library

The D source package is made up of the following components.

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- d/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
- d/phobos/*

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Assignee: Esri.
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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 combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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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
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1.103 rpcbind 1.2.6-7ubuntu2

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```

1.104 less 590-2ubuntu2.1

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```
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Less
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Version 3, 29 June 2007

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1.107 fontconfig 2.15.0-1.1ubuntu2

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---

fontconfig/fc-case/CaseFolding.txt

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---

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```
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*/
```

---

fontconfig/src/fcfoundry.h

```
/*
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*/

---

fontconfig/src/fcmd5.h

```
/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
 as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

---

fontconfig/src/fcmutex.h

```
/*
* Atomic int and pointer operations.  Originally copied from HarfBuzz.
*
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*/

---

fontconfig/src/ftglue.[ch]

/* ftglue.c: Glue code for compiling the OpenType code from
*   FreeType 1 using only the public API of FreeType 2
*
* By David Turner, The FreeType Project (www.freetype.org)
*
* This code is explicitely put in the public domain
*
* ==
*
* the OpenType
 parser codes was originally written as an extension to
* FreeType 1.x. As such, its source code was embedded within the library,
* and used many internal FreeType functions to deal with memory and
* stream i/o.
*
* When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,
* which basically means that some macro tricks were performed in order to
* directly access FT2 _internal_ functions.
*
* these functions were never part of FT2 public API, and _did_ change between
* various releases. This created chaos for many users: when they upgraded the
* FreeType library on their system, they couldn't run Gnome anymore since

* Pango refused to link.
*
* Very fortunately, it's possible to completely avoid this problem because
* the FT_StreamRec and FT_MemoryRec structure types, which describe how
* memory and stream implementations interface with the rest of the font
* library, have always been part of the public API, and never changed.
*
* What we do
 thus is re-implement, within the OpenType parser, the few
* functions that depend on them. This only adds one or two kilobytes of
* code, and ensures that the parser can work with _any_ version
* of FreeType installed on your system. How sweet... !
*
* Note that we assume that Pango doesn't use any other internal functions
* from FreeType. It used to in old versions, but this should no longer
* be the case. (crossing my fingers).
*
* - David Turner
* - The FreeType Project (www.freetype.org)
*
* PS: This "glue" code is explicitely put in the public domain
*/

1.108 sbsigntool 0.9.4-3.1ubuntu7

1.108.1 Available under license :

sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.109 pinentry 1.2.1-3ubuntu5

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[2227][2244]CANAL DE NOTICIAS
[2253][2291]La semana pasada,|Steven Johnson, de 28 aos...
[2291][2318]y Stephanie Tramer, de 30 aos...
[2318][2335]fueron encontrados apaleados|en un bosque local.
[2338][2376]El principal sospechoso y residente|local de Dunwich, Jack Cain,
[2376][2408]a quien la Polica arrest 24 horas|despus del descubrimiento...
[2408][2434]de los cuerpos, se encuentra|actualmente en la Corte.
[2434][2465]Asistiendo a una audiencia de|preparacin para el juicio.
[2465][2482]S espera que la audiencia...
[2482][2498]que sea una especie de formalidad...
[2498][2517]donde se presentaran los hechos clave...
[2517][2541]y el acusado se declarar culpable.
[2543][2573]En caso de que esa declaracin|no sea culpable, como se espera,
[2573][2596]se fijar una fecha para el juicio.
[2609][2656]De ests 16 pualadas,|5 por s solas...
[2656][2674]hubieran sido fatales.
[2683][2697]Steve Johnson...
[2704][2749]recibi 13 pualadas,|principalmente
en el pecho.
[2759][2793]Sin embargo, hubo varias abrasiones|en las palmas...
[2793][2845]de sus manos...|Lo que sugiere heridas defensivas.
[2854][2895]El golpe fatal fue una|pualada en la aorta,
[2896][2931]el vaso sanguneo grande|que sale del corazn.
[2948][2954]Su Seora...
[2962][2994]debido a la naturaleza|atroz de este crimen,
[3003][3046]y las pruebas circunstanciales|contra el seor Cain...
[3053][3079]y su falta de coartada,
[3087][3123]hay suficientes|pruebas para enjuiciar.
[3129][3145]Algo ms que aadir?
[3149][3171]No, eso es todo, Su Seora.
[3242][3254]Seor Cain.
[3265][3302]Antes de proceder, debo informarle...
[3304][3345]por segunda vez que,|dados los gravsimos cargos...

[3345][3387]lo mejor para usted es|contratar a un asesor legal...
[3387][3399]en este asunto.
[3426][3441]Me representar a m mismo,|Su Seora.
[3441][3455]No tengo nada que ocultar.
[3468][3480]Como desee.
[3492][3513]Antes de que pasemos|a una declaracin...
[3532][3557]tiene alguna
prueba|que desee presentar?
[3561][3601]Qu contradiga lo que la|Fiscala ha presentado?
[3718][3731]No en este momento.
[3741][3765]Me gustara declararme inocente.
[3796][3808]Como desee.
[3919][3956]Podran ambos abogados|acercarse al estrado, por favor?
[4111][4148]La gravedad de este|crimen es evidente.
[4182][4206]Toda la evidencia recolectada...
[4206][4268]en contra del seor Cain se obtuvo|despus de un arresto ilegal.
[4312][4325]Orden en la sala!
[4359][4394]No tengo ms remedio que pedir|que se desestime el caso.
[4404][4433]Su Seora,|no puede dejar ir a este hombre.
[4439][4456]Es un peligro para todos nosotros.
[4461][4488]Entonces, quizs la Polica|debera haberle ledo sus derechos...
[4488][4503]cuando lo arrestaron.
[4525][4563]El registro del auto del seor Cain,|su casa, las entrevistas,
[4568][4601]todo esto es ahora|inadmisible como prueba.
[4604][4623]Este caso est desestimado.
[4624][4641]- Culpable!|- Ordeno que el acusado...
[4642][4656]sea liberado de forma inmediata.
[4656][4675]Asesino!
Asesinaste a mi hijo!
[4815][4837]No le leste sus derechos.
[4838][4857]Qu cojones es esto,|la hora del aficionado?
[4857][4886]Lo persegu.|Tenamos a la Polica armada afuera.
[4888][4924]En toda la conmocin slo|comet un error, de acuerdo?
[4925][4945]Claro que cometiste un error.
[4952][4989]Y mi hijo y la hermana de este|pobre chico no vern justicia.
[4991][5022]Escoria como Cain no mantendr|su nariz limpia por mucho tiempo.
[5022][5055]Cuando se pase de la raya,|yo estar ah para derribarlo.
[5062][5079]Crees que volver a matar?
[5087][5116]No lo s, pero es capaz de hacerlo.
[5119][5136]Bueno,|ahora todos estamos en peligro.
[5145][5163]Miren,|mantendr esta ciudad a salvo.
[5174][5184]S.
[5188][5209]Como el buen trabajo que|hiciste la primera vez.
[5209][5232]- Ahora vete a la mierda, Joe.|- Escucha!
[5235][5276]Si esa basura lastima a|alguien ms, rodarn cabezas.
[5276][5292]- Mira hombre...|- Cometiste...
[5292][5319]el mayor error de tu carrera aqu,|simple y llanamente.
[5319][5342]-

Quieres mi renuncia?|- La ofreces?
[5342][5371]- Tengo otra opcin?|- Siempre hay opciones, Frank.
[5374][5395]Hacer tu trabajo es una opcin.
[5408][5431]Cul es tu trabajo, Frank?|Puedes decirme eso?
[5451][5473]Respetar la ley,|mantener la ciudad a salvo.
[5473][5497]Mantn esta ciudad a salvo,|precisamente.
[5503][5524]Todos queramos|justicia en este caso.
[5524][5542]La ley no nos ha dado eso.
[5546][5575]Significa eso que el|deber de proteger a Dunwich...
[5575][5591]se va por la ventana?
[5601][5613]No.
[5625][5654]Johnny, dime hijo,|qu significa la justicia para ti?
[5685][5724]Quiero ver a Cain sufrir por|lo que le hizo a mi hermana.
[5739][5752]Qu hay de ti, Joe?
[5752][5787]Ningn padre debera|enterrar a su propio hijo.
[5797][5809]No es natural.
[5813][5847]Y ese pedazo de mierda merece|morir por lo que ha hecho!
[5871][5883]Estoy de acuerdo.
[5934][5948]Qu ests diciendo, hombre?
[5949][5977]Bueno, todos nosotros nos conocemos|desde hace mucho tiempo, Frank.
[5978][6008]Podr
ser el Alcalde de esta ciudad,|pero tambin soy tu amigo.
[6012][6032]Los amigos deberan ayudarse|mutuamente, no crees?
[6061][6072]Si.
[6084][6116]As que, voy a ayudarte a|salvar tu trabajo, Frank.
[6124][6141]Joe, Johnny...
[6159][6173]vamos a conseguirles justicia.
[6203][6228]Y cmo te propones hacer eso?
[6303][6315]Zombis.
[6331][6343]S.
[6347][6363]Son mis sirvientes.
[6394][6419]Este asesino del alma|se lleva a los hombres...
[6419][6434]de sus tumbas...
[6444][6462]para ser sus esclavos.
[6512][6536]Son instrumentos de terror...
[6536][6558]y ahora este demonio conspira...
[6559][6579]para poseer a una mujer.
[6639][6652]S, amo?
[6687][6711]Este asesino del alma|se lleva a los hombres...
[6711][6759]de sus tumbas...|Para ser sus esclavos...
[6838][6869]y ahora este demonio conspira|para poseer a una mujer.
[6913][6927]Qu bestial.
[7233][7255]Qu cojones es esto,|una
fiesta de Noche de Brujas?
[7268][7288]Es hora de pagar por|lo que hiciste, Cain.
[7323][7336]Tienes algo que decir?
[7355][7393]Despreciame y vers a un tonto.
[7398][7423]Resptame y vers a un Dios.

[7423][7461]Mrame directamente y|te vers a ti mismo.
[7483][7495]No soy como t.
[7503][7516]Ninguno de nosotros lo es.
[7521][7539]Aprieta el gatillo y|te vuelves culpable...
[7539][7554]de lo que me acusas.
[7559][7583]La pregunta que|tienen que hacerse es,
[7587][7609]pueden vivir con quitar una vida?
[7622][7637]No slo vivir con ello,
[7643][7671]me despertar sonriendo|todos los malditos das...
[7671][7683]sabiendo que te has ido.
[7691][7707]Eso traer a tu hijo de vuelta?
[7718][7723]Vete a la mierda!
[7882][7903]Tratan de humillarme?
[7922][7934]No.
[7944][7957]Estoy tratando de matarte.
[8003][8032]Hazlo, Johnny.|Hazlo por tu hermana.
[8038][8056]Hazlo!
[8337][8356]Traigan las palas.
[8554][8583]Esto no hace falta decirlo,|pero lo voy a decir de todos modos.
[8591][8619]Nunca hablaremos
de esto con nadie,|nunca.
[8632][8661]Si alguien pregunta,|Cain se fue de la ciudad.
[8670][8685]Todos estamos de acuerdo en eso?
[8702][8714]Si.
[8721][8733]Johnny?
[8774][8786]Qu?
[8809][8834]Nunca hablaremos de esto...
[8839][8858]a nadie en la vida.
[8868][8888]De acuerdo?
[8944][8956]De acuerdo.
[9034][9051]Has estado muy callado, Frank.
[9097][9127]Promteme que nunca le|dirs a nadie sobre esto.
[9133][9147]Mientras vivas.
[9165][9179]Quiero orte decirlo.
[9265][9277]Bien.
[9281][9296]Prometo no decirle a nadie...
[9296][9325]sobre esto,|durante el resto de mi vida.
[9471][9518]UN AO MS TARDE
[9699][9717]Ya hemos pasado un|minuto de la medianoche.
[9717][9736]Y es oficialmente el|da en que el velo...
[9736][9763]entre los vivos y los muertos|est en su punto ms bajo.
[9766][9801]Aqu WKB Dunwich y yo soy|Jennifer Hollister despidindose,
[9801][9822]queridos oyentes,|con esta clsica.
[9831][9845]Feliz Noche de Brujas.
[10493][10506]Cabrn.
[10522][10536]Maldito cabrn.
[10584][10605]Mentiste,

pedazo de mierda.
[10634][10653]No pude vivir con ello.
[11177][11225]La vida es slo un|sueo para los muertos.
[11348][11372]- Hola, pap.|- Buenos das.
[11373][11385]Te ves como el demonio.
[11394][11404]Gracias, lo necesitaba.
[11412][11444]- Te cuesta dormir?|- S, qu hay de nuevo?
[11448][11466]Quieres que te|prepare algo de comer?
[11472][11498]No, estar bien.|Tomar algo de camino al trabajo.
[11505][11512]Comida rpida?
[11518][11537]Vamos, pap, te preparar unos huevos.
[11549][11568]Eres demasiado buena conmigo,|lo sabas?
[11586][11594]Pens que lo habas dejado.
[11597][11609]Lo estoy intentando.
[11612][11639]No muy en serio|por lo que parece.
[11644][11666]Supongo va de la mano con|el estrs del trabajo.
[11678][11704]Vas a ir a la fiesta|de Noche de Brujas esta noche?
[11713][11727]No creo.
[11731][11742]Tal vez deberas hacerlo.
[11751][11769]Podra ayudarte a|desestresarte un poco.
[11775][11784]Trabajars esta noche?
[11794][11806]Estoy libre.
[11814][11833]Estaba
pensando que|podra ir a la fiesta.
[11844][11856]Podra ser divertido.
[11863][11875]Recuerdas esa palabra?
[11891][11903]Diversin?
[11906][11931]Supongo que no he tenido mucho|tiempo para eso ltimamente.
[12037][12049]Hollister.
[12052][12064]Sip.
[12072][12086]Cristo.
[12093][12107]Voy enseguida.
[12125][12141]Lo siento, cario, tengo que irme.
[12146][12162]Trabajo.
[12354][12379]POLICA - NO CRUZAR
[12436][12478]- Qu ha pasado?|- Johnny Tramer, suicidio.
[12478][12496]- Jess.|- Disparo en la cabeza.
[12531][12545]Qu est pasando all?
[12559][12575]Es algo realmente extrao.
[12585][12599]Cav el hoyo?
[12603][12616]No haba seales de|una pala alrededor.
[12616][12646]As que si lo hizo,|no estoy seguro de cmo.
[12645][12663]- Sus manos?|- Lo he comprobado.
[12666][12687]Las uas estn limpias.
[12681][12704]- Extrao.|- Se vuelve an ms extrao.
[12713][12723]Qu quieres decir?
[12727][12743]Mira las huellas de las manos.
[12746][12771]No parece que alguien|fue enterrado vivo aqu...

[12771][12782]y
cavara para salir?
[12788][12819]Entrando en el espritu|de Noche de Brujas, Brodie?
[12818][12828]No!
[12829][12855]Es slo, slo lo que parece.
[12863][12889]Me parece que alguien acaba|de cavar un hoyo en un campo.
[12889][12905]Por qu, no lo s.
[12917][12938]Parece que hubo algo de|lluvia aqu, sin embargo.
[12939][12961]Manos grandes tambin,|definitivamente un hombre.
[12965][12993]Puso sus manos sobre el|lodo para salir de all.
[12997][13026]Entonces, Johnny se meti en|el hoyo para seguir cavando...
[13026][13045]luego, cuando termin,|se sac a s mismo.
[13045][13062]No...|Vers, eso pens.
[13063][13094]Pero tengo a mis hombres midiendo la|enpolladura de las manos de Johnny,
[13095][13117]y son la mitad del tamao|de esas huellas de manos.
[13125][13153]Entonces, qu ests diciendo, que alguien|ms estuvo aqu tambin?
[13156][13191]Bueno, no hay seales de una pala,|dos juegos de huellas de manos.
[13202][13223]Tal vez alguien lo mat y tena|la intencin de enterrar el cuerpo...
[13223][13247]pero,
lo interrumpieron y huyo.
[13263][13294]Tendremos que ver qu dice el informe|de balstica. Llamaste al forense?
[13296][13323]S, va a tener mucho trabajo|que hacer en este caso.
[13333][13355]- Qu quieres decir?|- Mira el cuerpo.
[13417][13442]Dios! Cunto tiempo lleva aqu?
[13454][13471]Bueno, estuvo en el trabajo ayer.
[13471][13494]As que no ms de 24 horas.
[13504][13522]Nunca he visto un|cuerpo descomponerse...
[13522][13535]en tan poco tiempo.
[13612][13624]Frank?
[13645][13657]Frank.
[13661][13673]Qu?
[13681][13705]- Ests bien?|- S, estoy bien.
[13717][13743]Ser mejor que vaya a|ver a Edie Tramer. Dios!
[13747][13767]Primero su hija el ao pasado|y ahora su hijo.
[13778][13805]- Vas a estar bien aqu?|- S, djamelo a m.
[14021][14035]Hola.
[14042][14054]Ellie.
[14059][14071]Esto se ve muy bien.
[14079][14096]Si que se han superado este ao.
[14096][14108]Gracias.
[14124][14159]As que, vas a ayudar o slo|vas a estar dando vueltas...
[14159][14178]hasta que traigamos
la ponchera?
[14196][14208]Disclpame un momento.
[14287][14306]Cmo te va, Joe?
[14304][14316]No es bueno.
[14317][14338]Johnny Tramer se suicid anoche.
[14354][14378]Dios! Qu ha pasado?

[14381][14406]Fue al lugar, ya sabes...
[14407][14424]dnde est el paquete.
[14432][14457]De todos modos,|el chico se dispar en la cabeza.
[14462][14472]l est muerto.
[14481][14493]Buen Dios.
[14498][14511]Esto est jodido.
[14512][14534]Si la Polica empieza|a husmear en esa zona,
[14534][14556]van a encontrar ms|de lo que esperaban.
[14563][14573]- Muy bien.|- Por qu ese dbil...
[14573][14586]mierdecilla tuvo que hacerlo all?
[14586][14613]Tranquilo, hablar con Frank.|Lo arreglaremos.
[14713][14742]S que este es un momento|desgarrador para ti, Edie...
[14755][14791]pero, hay algo que Johnny|haya dicho o hecho...
[14804][14822]para indicar que era un suicida?
[14835][14858]No ha sido el mismo desde|que Stephanie fue asesinada.
[14866][14881]Ninguno de nosotros lo ha hecho.
[14893][14918]Dijo algo sobre
todo ese asunto,
[14918][14937]ya sabes, Jack Cain?
[14956][14971]Saba que lo quera muerto.
[14982][14994]Todos lo queramos.
[15004][15029]Tus hombres estn ms cerca|de encontrar a esa basura?
[15052][15065]En realidad, no.
[15074][15103]Se fue de la ciudad el ao pasado.|Pudo haber ido a cualquier parte.
[15108][15124]Maldito seas por dejarlo ir.
[15127][15157]No lo dej ir, comet un error.
[15173][15191]Tengo que vivir con|ello todos los das.
[15206][15221]Pobre de ti.
[15236][15261]Tengo que vivir con perder|a Stephanie todos los das.
[15268][15284]Y ahora a mi hijo tambin.
[15297][15309]Tienes razn.
[15313][15329]No quise ser insensible.
[15342][15358]Necesito volver a la estacin.
[15358][15379]Va a venir alguien?
[15379][15398]Puedo enviar a alguien|a ofrecer apoyo.
[15398][15413]Slo quiero que me dejen en paz.
[15436][15449]Entiendo.
[15461][15474]Lo siento, Edie.
[15484][15496]De verdad que lo hago.
[15739][15759]- Hola?|- Hola, mejillas dulces.
[15765][15788]Ya sabes, los aos
'50 llamaron.
[15789][15797]Quieren que le devuelvas|el nombre de su mascota.
[15797][15814]Slo trato de ser carioso.
[15815][15833]Lo s, slo estoy bromeando.
[15839][15851]Cmo van las cosas?
[15851][15872]Bueno, encontramos a|Johnny Tramer esta maana.
[15872][15884]Se suicid.

[15894][15911]Dios, eso es horrible.
[15927][15951]Su hermana tambin muri el ao pasado.|Su madre debe estar hecha pedazos.
[15951][15968]S, tu padre est all ahora mismo.
[15968][15984]Contndole las noticias.
[15993][16007]Dios, eso es horrible.
[16023][16036]No los conoca tan bien.
[16036][16064]Pero pap sola salir|con su padre hace aos.
[16082][16101]Hablando de tu padre, no le dijiste...
[16101][16117]sobre nosotros, verdad?
[16117][16137]Brodie, eres un marica,|lo sabas?
[16137][16156]- No soy un marica.|- Lo eres.
[16171][16192]Por qu demonios ests|tan asustado de mi padre?
[16203][16221]Es el tipo ms dulce del mundo.
[16222][16252]S, en casa tal vez,|pero en el trabajo es mi jefe.
[16252][16277]Y
sabes lo incmodo que es que|te atrapen con la hija del jefe?
[16277][16294]Vamos, admtelo.
[16297][16318]El riesgo es parte de la emocin.
[16335][16371]Entonces, dime. Qu llevas puesto?
[16381][16406]Un jersey de lana grueso y|una redecilla para el cabello.
[16409][16427]Vamos Jen, en serio?
[16427][16454]- De verdad quieres hacer esto ahora?|- S, slo un minuto.
[16459][16479]Llama a uno de esos programas|de chicas de la tele...
[16479][16502]donde las chicas mueven|el culo arriba y abajo.
[16504][16528]S, cuestan cinco dlares|el minuto, esto es gratis.
[16534][16558]Eres una mierda tan descarada,|lo sabas?
[16584][16599]Vamos, dime. Qu llevas puesto?
[16609][16622]Con quin ests hablando?
[16636][16654]No es nadie.
[16661][16674]Hablando solo?
[16678][16695]Es una chica que conozco.
[16702][16718]De acuerdo, bueno, no tardes mucho.
[16718][16744]Tenemos cosas ms importantes|de las que ocuparnos hoy.
[16748][16765]Estar en mi oficina.
[16767][16779]Seor.
[16827][16848]-
Hola?|- Marica.
[16965][16979]- Dios mo!|- Qu?
[16979][16999]Bien, bien, mira esto.
[17007][17033]- Joder, qu diablos es eso?|- Es muy divertido.
[17037][17061]Una verdadera falta de estndares,|los de tu generacin.
[17063][17086]Dios mo, tenemos un chorreador.
[17087][17111]Muy bien, apgalo.|Este es un lugar de negocios.
[17119][17131]Muy bien.
[17131][17146]Tranquilo, abuelo.
[17149][17164]Sabes, cuando tena tu edad...
[17164][17183]no tenamos acceso a nada de eso.
[17188][17219]Lo que tenamos eran revistas.|Ni siquiera podamos costernoslas.

[17227][17239]Pero siempre encontrbamos,|cmo, grandes montones de ellas...
[17239][17253]en el bosque por alguna razn.
[17258][17286]Esto aade un nuevo significado|al trmino naturista.
[17289][17304]Entonces,|cul es el maldito problema?
[17304][17323]Es lo que hacen los chicos.
[17326][17339]Lo es?
[17339][17358]Dios, no me estoy perdiendo mucho.
[17358][17378]S, todo se trata de las bromas.
[17382][17407]Escucho esa palabra todo el tiempo,|bromas.
[17413][17425]Qu
significa eso?
[17426][17448]Bueno, es slo que, ya sabes,|nos necesitamos el uno al otro.
[17448][17461]Para divertirse y eso.
[17464][17489]Y t siempre ests bromeando|con tus amiguitos, no?
[17489][17504]S, s, lo hacemos.
[17513][17553]Aunque s,|a veces puede ir demasiado lejos.
[17551][17568]- S?|- S.
[17578][17606]Mira, alguna vez te he hablado|de mis vacaciones de la escuela...
[17606][17623]donde unos amigos y yo|nos fuimos a Mxico?
[17623][17635]No.
[17641][17652]Cierto.
[17658][17687]As que hay un chico llamado James,|ya sabes,
[17687][17728]y es muy credo,|demasiado confiado, arrogante.
[17722][17754]As que una noche|sale y se emborracha.
[17754][17783]Luego regresa a la villa|y se desmaya en el sof.
[17788][17805]As que tengo una idea, ya sabes,
[17810][17827]voy a bajarle los humos.
[17833][17858]As que lo que hago es|tomar un condn y lo pongo...
[17858][17877]al final de un lpiz y...
[17886][17914]se lo pongo en el chocolate|mientras est desmayado.
[17926][17941]Cmo
chocolate?
[17945][17972]S, el nudo de tu globo.
[18008][18032]Tu bolso de prisin,|tu estrella de mar de chocolate.
[18049][18062]Raja del culo.
[18063][18081]Entonces, por qu no|dijiste eso para empezar?
[18081][18106]De acuerdo, me asegurar|de mantener mi lenguaje...
[18106][18127]ms adecuado para los|pensionados en el futuro.
[18131][18156]De todos modos,|James se despierta al da siguiente...
[18156][18179]y no tiene recuerdos|de la noche anterior.
[18181][18198]Estaba tan borracho.
[18198][18218]Todo lo que sabe es que|ahora tiene un condn...
[18218][18235]colgando de su culo.
[18237][18266]Y nos pregunta: "Qu pas anoche?"
[18268][18281]Y as que se lo decimos.
[18287][18317]Yo digo: "Bueno, amigo, te vimos|charlando con este chico...
[18317][18351]en el bar y lo siguiente que|sabemos es que te has ido con l".
[18356][18385]As que James,|empez a enloquecer porque piensa...

[18385][18413]que la espada de cerdo de|un extrao se lo ha clavado.
[18432][18458]- La espada
de cerdo significa polla.|- S, s, lo s.
[18458][18477]La descripcin me dio un poco|de informacin sobre eso.
[18478][18523]Est bien, est bien. James,|est llorando y llama a su novia,
[18526][18552]y confiesa su primera|experiencia gay...
[18552][18577]y toma el siguiente|vuelo de vuelta a casa.
[18577][18611]Y no le dije la verdad|hasta seis meses despus.
[18641][18688]As que tcnicamente el nico|que hizo algo gay fuiste t.
[18694][18707]Por qu dices eso?
[18709][18742]- Le metiste un lpiz en el culo.|- S, pero eso no es gay.
[18759][18777]- Es un poco gay.|- Bueno, no, cllate.
[18783][18803]S, tienes razn,|las bromas son divertidas.
[18817][18834]De todos modos,|tengo trabajo que hacer.
[18843][18859]Muy bien, vuelvo en cinco minutos.
[18869][18885]Tengo que ir a echar una cagada.
[18914][18956]ESTACIN DE POLICA
[18966][18993]Entonces, el chico,|por qu lo hizo?
[19003][19017]Bueno, considerando dnde lo hizo.
[19017][19038]Supongo que no poda|vivir con lo que pas.
[19049][19078]-
Hablaste con su madre?|- Est destrozada.
[19087][19114]Le dijo lo que le pas a Cain?
[19115][19134]No creo que ella sepa nada.
[19154][19166]De acuerdo.
[19172][19193]Bueno, djame preguntarte|a ti, Frank.
[19199][19211]Qu hay de ti?
[19222][19234]Qu hay de m?
[19236][19271]Ya no te veo en ninguna|de estas noches sociales.
[19275][19298]Se siente como si nos|estuvieras evitando estos das.
[19298][19323]Realmente pensaste que las cosas|seguiran igual entre nosotros?
[19323][19355]Mierda como esa cambia a la gente.|Ciertamente me cambi a m.
[19369][19395]Piensas demasiado en todo,|ese es tu problema.
[19396][19428]Hicimos lo correcto.|Se hizo justicia.
[19436][19452]Lo que t digas, Milton.
[19461][19474]Ahora, si no te importa,
[19474][19492]tengo mucho papeleo que hacer.
[19753][19769]Mike, tienes la llave inglesa?
[19796][19802]Mike.
[19811][19826]Ests sordo o qu?
[20202][20214]Qu opinas?
[20255][20267]No lo s.
[20285][20304]No he visto nada como esto|desde los asesinatos de Cain.
[20325][20338]Cmo
quieres manejarlo?
[20372][20397]Esta es una semiautomtica.
[20415][20446]Slo amartilla el martillo,|inserta el cartucho...
[20446][20479]en la cmara y la|pistola estar lista...

[20479][20491]para su prximo disparo.
[20507][20531]Los cartuchos se alimentan a|travs de un cargador...
[20532][20556]que se introduce en el mango.
[20562][20584]Si quieres esta, te puedo dar...
[20584][20603]cinco cajas de cargadores,|que tienen 15 cartuchos.
[20603][20619]Que vienen en doble columna.
[20623][20652]Es una mquina muy, muy poderosa.
[20654][20672]Rpida y fcil de recargar tambin.
[20702][20749]Este es el revlver .38.
[20752][20772]El cilindro tiene capacidad|para siete cargas.
[20776][20799]Tanto las semiautomticas|como los revlveres,
[20803][20821]tienen dos estilos de|accin principales.
[20834][20846]Accin simple y doble.
[20857][20878]Esta perrita, es doble.
[20886][20918]Es pequea, lo que la hace|perfecta para ocultarla.
[20929][20952]Pero an as tiene un gran golpe.
[20972][20984]Maldita
pistola ingeniosa.
[20988][21019]Este hijo de puta es mi favorito.
[21052][21099]Esta fina arma goza|de la reputacin...
[21099][21124]de ser el estndar de oro|de la potencia de frenado.
[21141][21183]Es un tapn de un slo|disparo extremadamente fiable.
[21183][21219]No es buena para ocultar,|pero puedes hacer un agujero...
[21219][21246]a travs de un maldito oso,|con una de estas cosas.
[21257][21273]Me encanta esta pistola.
[21296][21315]De acuerdo.
[21325][21333]A algunos cerditos...
[21344][21359]les gusta ir al mercado.
[21361][21379]Algunos cerditos se quedan en casa.
[21387][21418]A algunos les gusta comer|mucha carne asada...
[21436][21452]pero t, cerdito...
[21456][21474]has venido a comprar|algunas armas dudosas.
[21474][21487]Entonces, cul vas a escoger?
[21494][21507]Vamos,|no tengo todo el maldito da.
[21531][21543]Todas ellas.
[21584][21605]Eres un cerdito codicioso, no?
[21616][21648]Siento mucho lo de Johnny.
[21649][21661]Cuando me enter,|tena que venir a
verte.
[21668][21682]Gracias.
[21691][21712]Tienes a alguien aqu|que pueda ayudarte?
[21723][21746]Mi hermano llega esta noche.
[21756][21764]Es todo lo que me queda ahora.
[21797][21808]S que esto es difcil para ti,|Edie,
[21808][21824]pero tengo que preguntar,
[21831][21858]Johnny te dijo algo|sobre Jack Cain?
[21863][21899]- Cmo dnde desapareci?|- No me dijo nada.
[21913][21925]De acuerdo.

[22079][22111]No quiero ser molesto,|pero, tienes galletas?
[22135][22147]Galletas?
[22154][22166]Si.
[22198][22209]S, creo que s.
[22216][22228]En la cocina.
[22246][22272]- Ir a buscarlas.|- Me encantara.
[22275][22288]Gracias.
[23496][23527]Muere, maldita puta!
[23553][23565]Muere!
[23652][23662]Joder.
[23691][23704]Dnde estn las galletas?
[23943][23963]Amigo, un dulce por Noche de Brujas.
[24214][24225]Hola, querido.
[24229][24241]Qu ests haciendo?
[24245][24264]Slo estoy haciendo|todas las decoraciones.
[24269][24288]Pero deberan haberse|hecho esta maana.
[24296][24313]Bueno, yo he...
[24319][24342]He
estado muy ocupada con|todos los pasteles tambin.
[24345][24372]Algunos de ellos estn un|poco quemados, as que...
[24375][24388]Qu quieres decir?
[24391][24413]Bueno...
[24428][24435]No has terminado la decoracin,
[24435][24462]has quemado la comida.|Qu has estado haciendo?
[24467][24479]Hazlos de nuevo!
[24484][24501]- Qu, ahora?|- S, hazlo!
[24505][24519]De acuerdo.
[24732][24749]Siempre tiene que ser as?
[24756][24778]Mira, me disculpo por|perder los estribos,
[24778][24793]pero esto tiene que hacerse.
[24819][24831]De acuerdo.
[25099][25154]Slo una pequea cantidad|en una copa de vino.
[25166][25182]O quizs una flor.
[25223][25239]Qudese con l, Monsieur.
[25284][25297]Qudeselo.
[25312][25338]Puede cambiar de opinin.
[25342][25357]No est muerta?
[25367][25379]Ests loco?
[25387][25394]La v morir.
[25397][25416]El doctor firm el certificado.
[25416][25428]Los v enterrarla.
[25441][25456]Cautiva en el lmite...
[25456][25478]entre
la vida y la muerte.
[25489][25518]Su cerebro se despoj|de la chispa de la vida.
[25545][25591]El zombi blanco obedece|las rdenes impas...
[25591][25609]de su amo demonio.
[25711][25748]Como criaturas sin sentido llevan|a cabo su maldita sea a voluntad...

[25808][25821]Zombis!
[26387][26402]Emergencia, emergencia.
[26928][26949]Adelante, Frank. Adelante.
[26987][26993]Si?
[26994][27012]Ven a la casa de los|Boggs en la calle Oak.
[27024][27038]Es malo, Frank.
[27044][27058]Es realmente jodidamente malo.
[27583][27614]NOCHE DE BRUJAS
[28094][28128]Parece que tenemos a un|maniaco suelto.
[28189][28201]Ests bien, Frank?
[28223][28232]Frank?
[28249][28273]S, s.
[28307][28315]Te voy a decir algo...
[28323][28343]que nunca se lo he contado a nadie.
[28347][28367]S,|algo que he estado llevando conmigo...
[28367][28384]desde hace un ao.
[28401][28413]De acuerdo.
[28417][28429]Jack Cain.
[28447][28459]Hace
un ao,
[28467][28495]yo, Boggs...
[28501][28516]Joe, y Johnny...
[28526][28542]fuimos a su cabaa.
[28557][28573]Lo llevamos al campo,
[28577][28601]el mismo en el que Johnny|fue encontrado esta maana...
[28621][28634]y lo matamos.
[28649][28667]Le disparamos a quemarropa...
[28679][28692]y luego lo enterramos.
[28711][28724]Hablas en serio, Frank?
[28731][28752]Sent que era lo correcto.
[28766][28795]Pero, me ha perseguido|desde entonces.
[28862][28893]As que estos asesinatos,|ahora hay un vnculo claro...
[28893][28906]entre las vctimas.
[28922][28953]Todo hombre involucrado en el asesinato|de Jack Cain est ahora muerto.
[28966][28987]Todos menos uno.
[28992][29018]Sabes lo que eso significa,|verdad?
[29028][29048]- Eres el siguiente.|- As es.
[29071][29091]Hay algo ms que deberas saber,|tambin.
[29094][29106]Qu sera eso?
[29129][29142]Hay un tipo...
[29151][29173]en la penitenciara de Edenfield,
[29175][29189]alguien llamado Charlie Edgar.
[29199][29226]Est cumpliendo cadena perpetua|por
el asesinato de una joven.
[29236][29252]Hace unos meses me lleg la noticia...
[29253][29276]del psiquiatra, que Edgar...
[29276][29296]haba confesado los|asesinatos de Cain.
[29303][29314]Lo entrevistaste?

[29321][29333]Lo hice, s.
[29347][29386]Y tengo que decirte, cuando|Edgar me cont cmo fue todo,
[29391][29403]le cre.
[29412][29429]Saba muchos detalles|sobre los asesinatos...
[29429][29447]que mantuvimos fuera|de los peridicos.
[29452][29465]Entonces, qu hiciste?
[29486][29499]Escrib un informe.
[29527][29541]Y luego lo enterr.
[29555][29571]Nunca se lo ense a nadie.
[29577][29601]Ya fue bastante difcil|lidiar con la idea...
[29601][29618]de matar a un supuesto culpable.
[29627][29634]Cielos, Frank.
[29642][29667]Me avergenzo de lo que he hecho.
[29687][29724]Alguien ms sabe...|Que mataste a Cain?
[29742][29768]Es posible que uno|de los otros tipos...
[29768][29783]haya hablado con alguien,|de acuerdo.
[29784][29813]Pero por qu alguien|se estara vengando...
[29813][29828]en
nombre de Jack Cain?
[29828][29845]Toda la ciudad viva|con miedo de l.
[29845][29859]Todos lo queran muerto.
[29863][29887]Podra ser un amigo de Cain,|alguien vinculado a l.
[29889][29907]S, esa es la explicacin racional.
[29915][29929]Pero hay otra teora.
[29942][29957]No es tan racional.
[29962][29974]Y esa es?
[29979][29997]Jack Cain ha vuelto de la muerte.
[30021][30032]Te sientes bien?
[30036][30061]Sabes, este es un momento|estresante y todo eso, Frank.
[30061][30081]- Ya sabes, pero...|- Y ese agujero en el suelo,
[30086][30125]dijiste que pareca que alguien haba|sacado las manos y se haba impulsado.
[30123][30135]Si.
[30143][30167]Ah es exactamente|donde enterramos a Cain.
[30176][30193]Su cuerpo ha desaparecido.
[30203][30221]Tal vez alguien que|sabe lo que pas...
[30221][30246]lo rob y quiere que pienses|que ha vuelto de la muerte.
[30248][30269]Hay un montn de cosas que|estn pasando ahora mismo...
[30269][30286]que no se pueden|explicar fcilmente.
[30289][30307]Tenemos que
ser abiertos de mente.
[30326][30346]Entonces, cul es nuestro|prximo movimiento?
[30358][30379]Tengo una llamada|importante en la estacin.
[30386][30406]Mi hija est en el Ayuntamiento...
[30406][30421]en la fiesta de Noche de Brujas.
[30427][30461]Ve a buscarla y|trela a la estacin.
[30472][30509]Bien, ya que estamos en ese tema...
[30519][30544]dado que me dijiste la verdad,|creo que es lo correcto...
[30544][30570]que yo tambin te diga la verdad.

[30615][30622]Qu es?
[30672][30684]Jennifer,
[30694][30704]nos hemos estado viendo.
[30714][30733]- Por cunto tiempo?|- Cuatro meses.
[30733][30751]Mira, siento no haber dicho nada,
[30752][30775]es slo que no quera|decir demasiado...
[30771][30787]antes de que las cosas se desarrollaran,|de lo contrario,
[30787][30798]las cosas se habran puesto incmodas.
[30798][30818]- Vas en serio con ella?|- Mucho.
[30823][30857]La amo y...|Creo que ella tambin me ama a m.
[30983][30995]Toma esto...
[31005][31032]para proteccin,|y ve a buscar a Jennifer...
[31047][31062]y
llvala a la estacin.
[31066][31078]Lo tengo.
[31242][31267]As que acordamos encontrarnos|en este bar al principio,
[31275][31302]y tom como siete gin tonics...
[31302][31321]en el espacio de una hora.
[31322][31336]El bar tender me avis...
[31336][31352]mientras el tipo estaba en el bao.
[31357][31384]Pero an as termin|yendo a otro bar con l.
[31387][31416]Pidi guacamole y se neg|a compartirlo conmigo,
[31422][31437]mientras afirmaba que iba a...
[31438][31462]lanzar a todos los|hpsters a la calle.
[31468][31484]Qu idiota.
[31496][31522]Al final fuimos a esta|cafetera toda la noche,
[31524][31551]en parte para que se pusiera sobrio,|y en parte porque...
[31551][31573]haba olvidado su nombre, y pens...
[31573][31588]que lo escribiran en su vaso.
[31597][31622]As que supongo que no hubo|una segunda cita, entonces.
[31622][31634]No.
[31638][31663]Creo que le dar un descanso|a las citas por un tiempo.
[31676][31692]Cmo van las cosas con Brodie?
[31709][31725]Todava no se
lo he|dicho a mi padre.
[31726][31742]No estoy segura de|cmo reaccionar.
[31751][31766]Estoy segura de que estar bien.
[31772][31783]No contratara a Brodie...
[31783][31803]si no creyera que es|un tipo responsable.
[31814][31826]Cierto.
[31843][31877]Le has dicho a Brodie|que ests embarazada?
[31885][31897]Qu?
[31907][31927]Cmo lo supiste?
[31925][31952]Estamos en una fiesta|y t bebes agua.
[31953][31972]Esa no es la Jennifer que conozco.
[31974][31993]Me hice la prueba hoy mismo.
[32001][32014]Enhorabuena.
[32021][32039]- Cmo te sientes?|- Slo...

[32049][32063]nerviosa, ahora mismo.
[32066][32081]No s si estoy lista.
[32081][32112]No tengo ni idea de|cmo se sentir Brodie.
[32114][32132]Es un gran paso.
[32141][32163]No te preocupes, te adora.
[32168][32181]Estar encantado.
[32181][32203]Va a ser un golpe|doble para mi padre.
[32205][32233]Descubrir que estoy viendo a|alguien que trabaja para l...
[32233][32245]y va a ser abuelo?
[32257][32269]Ya est bastante estresado.
[32269][32298]Oye,|no
hay nada de qu preocuparse.
[32309][32335]Una vez que el polvo se asiente,|estar contento.
[32356][32375]S lo difcil que fue para los dos...
[32375][32398]cuando tu madre muri.
[32406][32439]No hay otra manera de ver esto|que como un evento feliz.
[32457][32471]Gracias, Ellie.
[32522][32543]John, ese nmero de telfono,
[32548][32571]al que Cain llam cuando fue|arrestado por primera vez.
[32574][32589]Ya tienes una direccin?
[32657][32669]Si.
[32691][32702]Si.
[32728][32745]Gracias, John.
[33277][33291]Buenas noches.
[33307][33337]Sabe, un hombre que lleva un arma|no me parece tan seguro de s.
[33343][33381]De hecho,|veo a un hombre asustado ante m.
[33382][33396]Vincent Crowley?
[33401][33414]Quin quiere saber?
[33431][33443]Me llamo Hollister.
[33451][33465]Soy un Oficial de Polica.
[33469][33487]Quiero hablarte de Jack Cain.
[33505][33522]Siempre estoy abierto a conversar.
[33531][33547]Pero encuentro que es|mucho ms agradable...
[33547][33563]sin un arma apuntndome.
[33663][33675]Sintate.
[33787][33812]Qu
es lo que le gustara|saber sobre Jack Cain?
[33837][33853]Cuando fue arrestado,
[33854][33876]fuiste la primera persona|a la que llam. Por qu?
[33891][33903]Soy su amigo.
[33915][33927]Jack no tena muchos.
[33989][34011]Veo que compartes un|inters por lo oculto.
[34032][34054]Tomo lo "oculto",|como usted lo llama...
[34054][34079]como lo que es percibido negativamente|en su mundo.
[34093][34109]Si se usa para hacer|dao a la gente.
[34136][34159]Lo oculto es simplemente un|estudio de lo desconocido.
[34164][34191]Explora los lmites de|nuestras percepciones,
[34192][34215]nuestras verdades,|nuestros potenciales.

[34221][34237]No es ni bueno, ni malo.
[34261][34285]Por lo que encontramos en su casa,
[34292][34308]s que Jack Cain lo estaba usando.
[34326][34351]Jack siempre estuvo interesado|en explorar los lmites...
[34351][34375]entre la vida y la muerte.
[34374][34388]Consider la posibilidad de...
[34388][34408]que el mundo|que se nos presenta...
[34408][34426]puede
que no sea todo lo que hay.
[34436][34448]Es eso un crimen?
[34452][34464]No.
[34471][34486]Pero asesinar a dos|personas s lo es.
[34521][34548]- Crees que el asesinato es gracioso?|- No, seor Hollister.
[34548][34573]Lo que me divierte es cmo una mentira|contada durante el tiempo suficiente...
[34573][34597]puede convertirse en una verdad en|las mentes de los hombres comunes.
[34597][34609]Crees que es inocente?
[34618][34646]La noche que esos chicos fueron|asesinados, Jack estaba conmigo.
[34649][34669]Fuimos bienvenidos en|el solsticio de verano...
[34669][34695]en Sacramento Bay con|un grupo de amigos.
[34711][34731]No volvimos a casa|hasta despus de que...
[34731][34747]esos cuerpos fueran descubiertos.
[34753][34773]T y esos amigos que mencionas...
[34790][34811]por qu no hicieron una|declaracin en su defensa?
[34816][34842]No era necesario, como sabe.
[34852][34877]Pero considere esto, seor Hollister.
[34877][34897]Su sistema realmente|habra aceptado la palabra...
[34897][34905]de
gente como nosotros?
[34922][34947]Somos los parias de su sociedad.
[34952][34977]Somos los perros que dejan|a un lado de la carretera.
[34977][34997]No encajamos en sus convenciones,
[34997][35027]por lo tanto somos|excluidos y perseguidos.
[35042][35063]Bueno, no quiero entrar|en un debate sobre esto.
[35075][35089]Slo quiero saber una cosa.
[35095][35107]Estas...
[35118][35133]prcticas.
[35152][35166]Pueden hacer que|una persona sea capaz...
[35166][35196]de desafiar las leyes de, no s...
[35206][35218]la fsica?
[35226][35243]Una pregunta intrigante.
[35258][35274]Parece que su mente|se est abriendo...
[35274][35318]a las posibilidades ms all del|pensamiento convencional terrenal.
[35331][35348]Slo dime en qu crea Jack Cain.
[35361][35373]Aydame a entender.
[35389][35408]Qu es lo que quiere entender,|seor Hollister?
[35417][35448]Qu pas antes de que lo mataran,|o despus?
[35481][35526]No soy una amenaza para usted,|seor Hollister. Por favor, reljese.
[35621][35649]A lo

nico que le teme|un hombre, es a la verdad.
[35663][35681]As que si voy a|ofrecerle la verdad,
[35691][35718]- est listo para aceptarla?|- S.
[35767][35788]La ocupacin romana de|Gran Bretaa dur entre...
[35788][35816]el ao 43 d.C. y|alrededor del ao 400 d.C.
[35823][35857]Antes de que los Romanos invadieran,|el sacerdocio Druida...
[35851][35874]eran el poder|indiscutible de la tierra.
[35881][35904]La historia est escrita|por los vencedores.
[35918][35933]Cuando los Romanos|conquistaron a los Celtas...
[35933][35963]dieron descripciones poco|halagadoras de los Druidas.
[35972][36001]Algunos los describieron como|brbaros sedientos de sangre.
[36001][36022]Que ofrecan sacrificios humanos.
[36036][36076]Otros sostienen que los Druidas|eran gentiles y pacficos.
[36087][36128]Y mantuvieron su autoridad al estar|en contacto con la naturaleza.
[36149][36174]La verdad est en|algn punto intermedio.
[36183][36214]Los Druidas si hicieron|sacrificios humanos,
[36214][36237]pero eran autosacrificios.
[36252][36291]Durante
el Samhain,|especialmente el 31,
[36301][36324]cuando el velo entre|los vivos y los muertos...
[36324][36357]estaba en su punto ms delgado,|algunos de los Druidas...
[36359][36386]sacrificaron sus|vidas voluntariamente.
[36406][36422]Crean que su sangre de sacrificio...
[36423][36456]filtrada por el suelo podra|incluso tener el poder...
[36457][36474]de... Levantar a los muertos.
[36519][36525]Jack Cain lo crea?
[36549][36562]Su mente estaba abierta.
[36568][36584]- Y la suya?|- Qu quieres decir?
[36607][36625]Se cometi una injusticia.
[36635][36658]El pueblo se volvi|contra un hombre inocente...
[36658][36665]y fue ejecutado,
[36669][36689]y ahora ha vuelto para vengarse.
[36692][36726]Y con cada alma que l...|Absorbe...
[36726][36762]se vuelve ms y ms poderoso.
[36772][36796]Por supuesto que hay otra|explicacin para todo esto.
[36798][36825]- Cul es?|- T eres el que ha vuelto para vengarse.
[36841][36857]Ay, seor Hollister!
[36864][36901]Se acerc tanto a una|forma
superior de comprensin.
[36909][36925]Pero se asust...
[36932][36967]as que ha vuelto a su|perspectiva convencional terrenal.
[36971][37003]En el trabajo policial normalmente|la explicacin ms simple...
[37003][37015]suele ser la correcta.
[37019][37042]Y ahora qu? Me arrestar?
[37043][37063]Parece el siguiente paso lgico.
[37073][37085]No, seor Hollister.
[37086][37106]El siguiente paso lgico|sera pasar pgina...
[37106][37132]del libro de los Druidas|y hacer un autosacrificio...

[37132][37144]para salvar a su ciudad.
[37155][37178]Jack Cain ya no es humano.
[37181][37204]Se est volviendo ms que humano.
[37208][37238]l es su Dios ahora,|y es un Dios vengativo.
[37238][37263]Buscando castigar a los|que lo persiguieron.
[37269][37294]Slo un autosacrificio|lo apaciguar.
[37675][37701]- Es el verdadero McCoy.|- S.
[37763][37777]El padre de tu beb est aqu.
[37777][37799]Dios mo, odio esa expresin.
[37801][37834]Mejor que te acostumbres.|Tengo que ir al bao.
[37837][37854]Los dejo solos.
[37886][37907]Puedo
hablar contigo|en privado un momento?
[37987][37999]Qu sucede?
[38011][38041]- Mi padre est bien?|- Est bien, ms o menos.
[38043][38055]Qu quieres decir?
[38056][38075]Me ha pedido que te|lleve a la estacin.
[38075][38086]Por qu?
[38087][38103]Sabes que mencion que|Johnny Tramer se suicid?
[38106][38118]- S?|- Encontramos otros cuatro cuerpos.
[38127][38132]- Dios mo!|- Joe Johnson,
[38134][38153]Mike Anderson,|Milton Boggs y Vernica.
[38153][38179]- Qu pas?|- Todos asesinados.
[38186][38206]Dios mo!|Han averiguado quin lo hizo?
[38206][38218]No, todava no.
[38218][38239]Tenemos a nuestros chicos|patrullando las calles.
[38241][38257]Tu padre me ha pedido|que venga a buscarte.
[38257][38272]No deberamos quedarnos aqu?
[38272][38291]Quiero decir,|hay mucha gente alrededor.
[38297][38324]Quienquiera que haya matado a|esa gente, no va a venir aqu.
[39737][39755]Qu es lo que pasa?
[39774][39794]Dulce o truco.
[39983][39999]Vayan por ah, vayan por ah.
[40051][40063]Aljense
de l!
[40124][40155]No, por favor, no.|Qu cojones eres?
[40427][40441]Aljate de m!
[40626][40638]Oye, t!
[40678][40693]Ven y toma un poco de esto.
[40714][40726]Vamos.
[41041][41061]- No, no lo hagas.|- Est bien.
[41242][41252]No hay pulso.
[41294][41306]No est respirando.
[41404][41418]Ayuda!
[41544][41556]Ven aqu.
[41559][41571]Qu est pasando?
[41573][41591]Ven aqu, ven aqu,|ven aqu, ven aqu.
[41637][41649]Oye.

[41655][41688]Comet un terrible error,|pero voy a compensarlo.
[41724][41736]Ay, Dios mo!
[41739][41756]Pens que estabas muerto.
[41763][41775]Est bien.
[41787][41804]No, no, estoy preocupada.
[41814][41826]Brodie.
[41837][41856]Llvate a mi hija y vyanse|de aqu.
[41856][41875]Qu vas a hacer t?
[41885][41909]Slo cuida de ella.
[41966][41978]Lo har.
[42038][42057]No, pap, t vienes con nosotros.
[42061][42084]No tengo tiempo para discutir.|Vete.
[42091][42117]Pap, no me ir de aqu sin ti.
[42184][42197]De acuerdo.
[42204][42217]Vamos.
[42381][42405]No, pap!|Qu ests haciendo?
[42405][42438]No,
no!
[42433][42445]Pap!
[42565][42601]Es hora de pagar por lo|que hiciste, Hollister.
[42626][42649]Por primera vez t y|yo estamos de acuerdo.
[42662][42676]Esto termina aqu y ahora.
[42754][42776]Tal vez t y yo|encontremos la redencin.
[42787][42807]Entonces, nos veremos en el Cielo.
[42837][42858]A quin estoy engaando?
[42892][42905]Te ver en el Infierno.
[43243][43276]El 31 de octubre es|normalmente el momento...
[43276][43285]para un susto seguro.
[43288][43308]El momento en que los|nios van a pedir dulces...
[43309][43326]y los adultos ven|pelculas de terror,
[43329][43354]pero anoche los|residentes de Dunwich...
[43355][43376]experimentaron un|horror de la vida real,
[43376][43407]mientras una fiesta de Noche de Brujas|se transform en una pesadilla.
[43416][43443]El Ayuntamiento qued|envuelto en llamas...
[43444][43473]y se cree que una docena|de personas han muerto.
[43474][43497]Varias
personas estn|heridas de gravedad...
[43497][43525]y se espera que el nmero|de muertos aumente.
[43531][43559]El Departamento de Bomberos local,|an no ha confirmado...
[43559][43584]la causa del incendio,|pero varios testigos...
[43584][43611]han afirmado que|antes de la explosin...
[43612][43648]un hombre enmascarado|no identificado entr en el edificio.
[43648][43688]Con un arma, hiriendo y|matando a varios asistentes.
[43691][43717]El Departamento de Polica|se ha negado a comentar...
[43717][43733]sobre estos reportes.
[43803][43862]UN AO MS TARDE
[44043][44087]Esto es WKB y yo soy|Jennifer Hollister, despidindome.
[44093][44112]Estimados oyentes...

[44124][44144]feliz Noche de Brujas!
[44926][44975]FRANK HOLLISTER|1976 - 2018
[45423][45472]JACK CAIN|1978 - 2018
[45646][45726]The Legend of Halloween Jack (2018)|Una traduccin de|TaMaBin
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1.112 pyrsistent 0.20.0-1build2

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1.114 python-jsonschema 4.10.3-2ubuntu1

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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.

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

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source code for the Library including whatever
changes were used in the work (which must be distributed under
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to use the modified definitions.)

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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
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That's all there is to it!
Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.
McKenney and reviewed by Steven L. Bennett:

  https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project
was therefore changed to
LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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1.119 opus 1.4-1build1

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1.123 lsof 4.95.0-1build3

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* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTunix.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTlock.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTnlink.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTbigf.c

* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTnfs.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTszoff.c
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#!/usr/bin/perl
#
idrlogin.pl   -- sample Perl 5 script to identify the network source of a
network (remote) login via rlogind, sshd, or telnetd

IMPORTANT DEFINITIONS
=====================
#
1. Set the interpreter line of this script to the local path of the
Perl 5 executable.

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#
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# Initialize variables.

$dev = $faddr = $tty = "";     # fd variables
$pidst = 0;       # process state
$cmd = $login = $pgrp = $pid = $ppid = "";   # process var.

# Set path to lsof.

if (($LSOF = &isexec("../lsof")) eq "") { # Try .. first
  if (($LSOF = &isexec("lsof")) eq "") { # Then try . and $PATH
 print "can't execute $LSOF\n"; exit 1
  }
}

# Open a pipe from lsof

if (! -x "$LSOF") { die "Can't execute $LSOF\n"; }
open (P, "$LSOF -R -FcDfLpPRn0|") || die "Can't pipe from $LSOF\n";

# Process the lsof output a line at a time

while (<P>) {
  chop;
  @F = split('\0', $_, 999);
  if ($F[0] =~ /^p/) {

# A process set begins with a PID field
 whose ID character is `p'.

 if ($pidst) { &save_proc }
 foreach $i (0 .. ($#F - 1)) {

    PROC: {
 if ($F[$i] =~ /^c(.*)/) { $cmd = $1; last PROC }
 if ($F[$i] =~ /^p(.*)/) { $pid = $1; last PROC }
 if ($F[$i] =~ /^R(.*)/) { $ppid = $1; last PROC }
 if ($F[$i] =~ /^L(.*)/) { $login = $1; last PROC }
    }
 }
 $pidst = 1;
 next;
  }
```

```
# A file descriptor set begins with a file descriptor field whose ID
# character is `f'.

  if ($F[0] =~ /^f/) {
 if ($faddr ne "") { next; }
 $proto = $name = "";
 foreach $i (0 .. ($#F - 1)) {

    FD: {
 if ($F[$i] =~ /^P(.*)/) { $proto = $1; last FD; }
 if ($F[$i] =~ /^n(.*)/) { $name = $1; last FD; }
 if ($F[$i] =~ /^D(.*)/) { $dev = $1; last FD; }
    }
 }
 if ($proto eq "TCP"
 &&  $faddr eq ""
 &&  (($cmd =~ /rlogind/) || ($cmd =~ /sshd/) || ($cmd =~ /telnetd/))) {
    if (($name =~ /[^:]*:[^-]*->([^:]*):.*/)) {
 $faddr = $1;
    }
 } elsif ($tty eq "" && ($cmd =~ /.*sh$/)) {
    if (($name =~ m#/dev.*ty.*#)) {
 ($tty) = ($name
 =~ m#/dev.*/(.*)#);
    } elsif (($name =~ m#/dev/(pts/\d+)#)) {
 $tty = $1;
    } elsif (($name =~ m#/dev.*pts.*#)) {
 $d = oct($dev);
 $tty = sprintf("pts/%d", $d & 0xffff);
    }
 }
 next;
  }
}

# Flush any stored file or process output.

if ($pidst) { &save_proc }

# List the shell processes that have rlogind/sshd/telnetd parents.

$hdr = 0;
foreach $pid (sort keys(%shcmd)) {
  $p = $pid;
  if (!defined($raddr{$pid})) {
     for ($ff = 0; !$ff && defined($Ppid{$p}); ) {
    $p = $Ppid{$p};
    if ($p < 2 || defined($raddr{$p})) { $ff = 1; }
```

```
      }
  } else { $ff = 2; }
  if ($ff && defined($raddr{$p})) {
 if (!$hdr) {
    printf "%-8.8s %-8.8s %6s %-10.10s %6s %-10.10s %s\n",
  "Login", "Shell", "PID", "Via", "PID", "TTY", "From";
    $hdr = 1;
 }
 printf "%-8.8s %-8.8s %6d %-10.10s %6s %-10.10s %s\n",
    $shlogin{$pid}, $shcmd{$pid}, $pid,
    ($ff == 2) ? "(direct)" : $rcmd{$p},
    ($ff == 2) ? "" : $p,
    ($shtty{$pid} eq "") ? "(unknown)" : $shtty{$pid},

   $raddr{$p};
  }
}
exit(0);


# save_proc -- save process information
#       Values are stored inelegantly in global variables.

sub save_proc {
  if (!defined($Ppid{$pid})) { $Ppid{$pid} = $ppid; }
  if ($faddr ne "") {
 $raddr{$pid} = $faddr;
 if (($cmd =~ /.*sh$/)) {
    $shcmd{$pid} = $cmd;
    $shlogin{$pid} = $login;
 } else { $rcmd{$pid} = $cmd; }
  }
  if ($tty ne "") {
 $shcmd{$pid} = $cmd;
 $shtty{$pid} = $tty;
 $shlogin{$pid} = $login;
  }

# Clear variables.

  $cmd = $dev = $faddr = $pgrp = $pid = $ppid = $tty = "";
  $pidst = 0;
}


## isexec($path) -- is $path executable
#
# $path   = absolute or relative path to file to test for executabiity.
```

```
#     Paths that begin with neither '/' nor '.' that arent't found as
#     simple references are also tested with the path prefixes of the
#     PATH environment variable.

sub
isexec {
  my ($path) = @_;
  my ($i, @P, $PATH);

  $path =~ s/^\s+|\s+$//g;
  if ($path eq "") { return(""); }
   if (($path =~ m#^[\/\.]#)) {
 if (-x $path) { return($path); }
 return("");
  }
  $PATH = $ENV{PATH};
  @P = split(":", $PATH);
  for ($i = 0; $i <= $#P; $i++) {
 if (-x "$P[$i]/$path") { return("$P[$i]/$path"); }
  }
  return("");
}
```

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* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/idrlogin.pl
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Making and Installing lsof 4

```
**************************************************************************
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu.  Look in pub/tools/unix/lsof.         |
**************************************************************************
```

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==========
Pre-built Lsof Binaries
==========

Avoid using pre-built lsof binaries if you can; build your own
instead.

I do not support lsof binaries built and packaged by third parties nor
lsof binaries built from anything but the latest lsof revision. (See
the Bug Reports section for more information on
 the details of lsof
support.)

One important reasone for those support restrictions is that when lsof
is built its Configure script tunes lsof to the features available on
the building system, often embodied in supporting header files and
libraries. If the building system doesn't have support for a
particular feature, lsof won't be built to support the feature on any
system.

The Veritas VxFS file system is a good example of a feature that
requires build-time support.

UNIX dialect version differences -- Solaris 8 versus 9, AIX 4.3.3
vesus 5.2, etc. -- can also render a pre-built lsof binary useless
on a different version. So can kernel bit size.

There are so many potential pitfalls to using an lsof binary
improperly that I strongly recommend lsof be used only where it is
built.

==========
Making Lsof
==========

 $ cd <lsof source directory>
 $ ./Configure <your dialect's abbreviation>
 $ make

(Consult the 00FAQ and 00XCONFIG files of the lsof distribution
for information about
 using make command invocations and environment
variables to override lsof default Makefile strings.)

This lsof distribution can be used with many UNIX dialects. However,
it must be configured specifically for each dialect. Configuration
is done in three ways: 1) by changing definitions in the machine.h
header file of the UNIX dialect of interest; 2) by defining
environment variable values prior to calling Configure (see the
00XCONFIG file, the Environment Variabls and Environment Variables
Affecting the Configure Script sections of this file); and 3) by

running the Configure shell script found in the top level of the distribution directory.

You may not need to change any machine.h definitions, but you might want to look at them anyway. Pay particular attention to the definitions that are discussed in the Security section of this file. Please read that section.

The Configure script calls three other scripts in the lsof distribution: AFSConfig; Inventory; and Customize. The AFSConfig script is called for selected dialects (AIX, HP-UX, NEXTSTEP, and Solaris) to locate AFS header files and determine the AFS version. See The AFSConfig Script section of this file for more information.

The Inventory script checks the completeness of the lsof distribution. Configure calls Inventory after it has accepted the dialect abbreviation, but before it configures the top-level directory for the dialect. See The Inventory Script section of this file for more information.

Configure calls the Customize script after it has configured the top-level lsof directory for the declared dialect. Customize helps you modify some of the important compile-time definitions of machine.h. See the The Customize Script section.

You should also think about where you will install lsof and its man page, and whom you will let execute lsof. Please read the Installing Lsof section of this file for information on installation considerations.

Once you have inspected the machine.h file for the dialect for which you want to build lsof, and made any changes you need, run the Configure script, supplying it with the abbreviation for the dialect. (See the following table.) Configure selects the appropriate options for the dialect and runs the Mksrc shell script in the dialect sub-directory to construct the appropriate source files in the top-level distribution directory.

Configure may also run the MkKernOpts script in the dialect sub-directory to propagate kernel build options to the dialect Makefile. This is done for only a few dialects -- e.g., DC/OSx, and Reliant UNIX.

Configure creates a dialect-specific Makefile. You may want to inspect or edit this Makefile to make it conform to local conventions. If you want the Makefile to install lsof and its man page, you will

have to create an appropriate install rule.

Lsof may be configured using UNIX dialect abbreviations from the
following table. Alternative abbreviations are indicated by a
separating `|'. For example, for
SCO OpenServer you can use either
the ``osr'' or the ``sco'' abbreviation:

```
$ Configure osr
  or
$ Configure sco
```

```
Abbreviations  UNIX Dialect
-------------  ------------

  aix   IBM AIX 5.[23] and 5.3-ML1 using IBM's C Compiler
  aixgcc  IBM AIX 5.[12] and 5.3-ML1 using gcc
  darwin  Apple Darwin 7.x and 8.x for Power Macintosh systems
  decosf  DEC OSF/1, Digital UNIX, Tru64 UNIX 4.0 and 5.1
  digital_unix Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
  du   Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
  freebsd  FreeBSD 4.x, 4.1x, 5.x and [67].x
  hpux  HP-UX 11.00, 11.11 and 11.23, using HP's C
  Compiler, both /dev/kmem-based and PSTAT-based
  hpuxgcc  HP-UX 11.00, 11.11 and 11.23, using gcc, both
  /dev/kmem-based and PSTAT-based
  linux  Linux 2.1.72 and above for x86-based systems
  netbsd  NetBSD 1.[456], 2.x and 3.x
  next  NEXTSTEP 3.[13]
  nextstep  NEXTSTEP 3.[13]
  ns   NEXTSTEP 3.[13]
  nxt   NEXTSTEP 3.[13]
  openbsd  OpenBSD
 2.[89] and 3.[0-9]
  openstep  OPENSTEP 4.x
  os   OPENSTEP 4.x
  osr   SCO OpenServer Release 5.0.6, using the C compiler
  from the SCO developer's kit
  osrgcc  SCO OpenServer Release 5.0.6, using gcc
  osr6  SCO Openserver 6.0.0, using the SCO C compiler
  sco   SCO OpenServer Release 5.0.6, using the C compiler
  from the SCO developer's kit
  scogcc  SCO OpenServer Release 5.0.6, using gcc
  solaris  Solaris 2.x, 7, 8, 9 and 10 using gcc
  solariscc  Solaris 2.x, 7, 8, 9 and 10 using Sun's cc
  tru64  Tru64 UNIX, DEC OSF/1, Digital UNIX 4.0 and 5.1
  unixware  SCO|Caldera UnixWare 7.1.4
  uw   SCO|Caldera UnixWare 7.1.4
```

If you have an earlier version of a dialect not named in the above list, lsof may still work on your system. I have no way of testing that myself. Try configuring for the named dialect -- e.g., if you're using Solaris 2.1, try configuring for Solaris 2.5.1.

After you have configured lsof for your UNIX dialect and have selected options
via the Customize script (See the The Customize Script section.) , use the make command to build lsof -- e.g.,

```
$ make
```

Other Configure Script Options

There are three other useful options to the Configure script besides the dialect abbreviation:

-clean may be specified to remove all traces of a dialect configuration, including the Makefile, symbolic links, and library files.

-h may be specified to obtain a list of
-help Configure options, including dialect abbreviations.

-n may be specified to stop the Configure script from calling the Customize and Inventory scripts.

Caution: -n also suppresses the AFSConfig step.

Environment Variables

Lsof configuration, building, and execution may be affected by environment variable settings. See the Definitions That Affect Compilation section in the 00PORTING file, the General Environment Variables section in the 00XCONFIG
file, the Dialect-Specific Environment Variables section in the 00XCONFIG file, and the Environment Variables Affecting the Configure Script section of this file for more information.

Note in the General Environment Variables section of the 00XCONFIG
file that there are five environment variables that can be used to
pre-define values in lsof's -v output: LSOF_BLDCMT, LSOF_HOST,
LSOF_LOGNAME, LSOF_SYSINFO, and LSOF_USER.

Security
========

If the symbol HASSECURITY is defined, a security mode is enabled,
and lsof will allow only the root user to list all open files.
Non-root users may list only open files whose processes have the
same user ID as the real user ID of the lsof process (the one that
its user logged on with).

However, if HASNOSOCKSECURITY is also defined, anyone may list
anyone else's open socket files, provided their listing is enabled
with the "-i" option.

Lsof is distributed with the security mode disabled -- HASSECURITY
is not defined. (When HASSECURITY is not
defined, the definition
of HASNOSOCKSECURITY has no meaning.) You can enable the security
mode by defining HASSECURITY in the Makefile or in the machine.h
header file for the specific dialect you're using -- e.g.
dialects/aix/machine.h.

The Customize script, run by Configure when it has finished its
work, gives you the opportunity to define HASSECURITY and
HASNOSOCKSECURITY. (See the The Customize Script section.)

The lsof -h output indicates the state HASSECURITY and HASNOSOCKSECURITY
had when lsof was built, reporting:

"Only root can list all files;"
if HASSECURITY was defined and HASNOSOCKSECURITY wasn't
defined;

"Only root can list all files, but anyone can list socket files."
if HASSECURITY and HASNOSOCKSECURITY were both defined;

"Anyone can list all files;"
if HASSECURITY wasn't defined. (The definition of
HASNOSOCKSECURITY doesn't matter when HASSECURITY isn't
defined.)

You should carefully consider the implications of using the default

security mode.
When lsof is compiled in the absence of the
HASSECURITY definition, anyone who can execute lsof may be able to
see the presence of all open files. This may allow the lsof user
to observe open files -- e.g., log files used to track intrusions
-- whose presence you would rather not disclose.

As distributed, lsof writes a user-readable and user-writable device
cache file in the home directory of the real user ID executing
lsof. There are other options for constructing the device cache file
path, and they each have security implications.

The 00DCACHE file in the lsof distribution discusses device cache
file path construction in great detail. It tells how to disable
the various device cache file path options, or how to disable the
entire device cache file feature by removing the HASDCACHE definition
from the dialect's machine.h file. There is also information on
the device cache file feature in the 00FAQ file. (The 00DCACHE
and 00FAQ files are part of the lsof distribution package.)

The
Customize script, run by Configure after it has finished its
work, gives you the opportunity to change the compile-time options
related to the device cache file. (See The Customize Script
section.)

Since lsof may need setgid or setuid-root permission (See the Setgid
Lsof Dialects and Setuid-root Lsof Dialects sections.), its security
should always be viewed with skepticism. Lest the setgid and
setuid-root permissions allow lsof to read kernel name list or
memory files, declared with the -k and -m options, that the lsof
user can't normally access, lsof uses access(2) to establish its
real user's authority to read such files when it can't surrender
its power before opening them. This change was added at the
suggestion of Tim Ramsey.

Lsof surrenders setgid permission on most dialects when it has
gained access to the kernel's memory devices. There are exceptions
to this rule, and some lsof implementations need to run setuid-root.
(The Setgid Lsof Dialects and Setuid-root Lsof
Dialects sections
contains a list of lsof implementations and the permissions
recommended in the distribution's Makefiles.)

The surrendering of setgid permission is controlled by the WILLDROPGID
definition in the dialect machine.h header files.

In the end you must judge for yourself and your installation the

risks that lsof presents and restrict access to it according to
your circumstances and judgement.

Run-time Warnings
==========

Lsof can issue warning messages when it runs -- e.g., about the
state of the device cache file, about an inability to access an
NFS file system, etc. Issuance of warnings are enabled by default
in the lsof distribution.

Issuance or warnings may be disabled by default by defining
WARNINGSTATE in the dialect's machine.h. The Customize script may
also be used to change the default warning message issuance state.
(See The Customize Script section.)

The ``-w" option description of the ``-h" option (help) output
will indicate the default warning
 issuance state. Whatever the
state may be, it can be reversed with ``-w".

Device Access Warnings
==========

When lsof encounters a /dev (or /devices) directory, one of its
sub-directories, or one of their files that it cannot access with
opendir(3) or stat(2), it issues a warning message and continues.
Lsof will be more likely to issue such a warning when it has been
installed with setgid(<some group name>) permission; it won't have
trouble if it has been installed with setuid(root) permission or
is being run under the root login.

The lsof caller can inhibit or enable the warning with the -w
option, depending on the issuance state of run-time warnings. (See
the Run-time Warnings section.)

The warning messages do not appear when lsof obtains device
information from a device cache file that it has built and believes
to be current or when warning message issuance is disabled by
default. (See the "Caches -- Name and Device" section for more
information on the device
 cache file.)

The lsof builder can inhibit the warning by disabling the definition
of WARNDEVACCESS in the dialect's machine.h or disable all warnings
by defining WARNINGSTATE. WARNDEVACCESS is defined by default for

most dialects. However, some dialects have some device directory elements that are private -- e.g., HP-UX -- and it is more convenient for the lsof user if warning messages about them are inhibited.

Output from lsof's -h option indicates the status of WARNDEVACCESS. If it was defined when lsof was compiled, this message will appear:

  /dev warnings = enabled

If WARNDEVACCESS was not defined when lsof was compiled, this message will appear instead:

  /dev warnings = disabled

The Customize script, run by Configure after it has finished its work, gives you the opportunity to change the WARNDEVACCESS definition. (See The Customize Script section.)

NFS Blocks
==========

Lsof is susceptible to NFS blocks when it tries to lstat() mounted file systems and when it does
 further processing -- lstat() and
readlink() -- on its optional file and file system arguments.

Lsof tries to avoid being stopped completely by NFS blocks by doing the lstat() and readlink() functions in a child process, which returns the function response via a pipe. The lsof parent limits the wait for data to arrive in the pipe with a SIGALRM, and, if the alarm trips, terminates the child process with a SIGINT and a SIGKILL.

This is as reliable and portable a method for breaking NFS deadlocks as I have found, although it still fails under some combinations of NFS version, UNIX dialect, and NFS file system mount options. It generally succeeds when the "intr" or "soft" mount options are used; it generally fails when the "hard" mount option is used.

When lsof cannot kill the child process, a second timeout causes it to stop waiting for the killed child to complete. While the second timeout allows lsof to complete, it may leave behind a hung child process. Unless warnings are inhibited
 by default or with
the -w option, lsof reports the possible hung child.

NFS block handling was updated with suggestions made by Andreas

Stolcke. Andreas suggested using the alternate device numbers that appear in the mount tables of some dialects when it is not possible to stat(2) the mount points.

The -b option was added to direct lsof to avoid the stat(2) and readlink(2) calls that might block on NFS mount points and always use the alternate device numbers. If warning message issuance is enabled and you don't want warning messages about what lsof is doing, use the -w option, too.

The -O option directs lsof to avoid doing the potentially blocking operations in child processes. Instead, when -O is specified, lsof does them directly. While this consumes far less system overhead, it can cause lsof to hang, so I advise you to use -O sparingly.

Caches -- Name and Device
==========

Robert Ehrlich suggested that lsof obtain path name components for open files
from the kernel's name cache. Where possible, lsof dialect implementations do that. The -C option inhibits kernel name cache examination.

Since AFS apparently does not use the kernel's name cache, where lsof supports AFS it is unable to identify AFS files with path name components.

Robert also suggested that lsof cache the information it obtains via stat(2) for nodes in /dev (or /devices) to reduce subsequent running time. Lsof does that, too.

In the default distribution the device cache file is stored in .lsof_hostname, mode 0600, in the home directory of the login of the user ID that executes lsof. The suffix, hostname, is the first component of the host's name returned by gethostname(2). If lsof is executed by a user ID whose home directory is NFS-mounted from several hosts, the user ID's home directory may collect several device cache files, one for each host from which it was executed.

Lsof senses accidental or malicious damage to the device cache file with extensive integrity
checks, including the use of a 16 bit CRC.
It also tries to sense changes in /dev (or /devices) that indicate the device cache file is out of date.

There are other options for forming the device cache file path.

Methods the lsof builder can use to control and employ them are
documented in the separate 00DCACHE file of the lsof distribution.

Raw Sockets
==========

On many UNIX systems raw sockets use a separate network control
block structure. Display of files for applications using raw
sockets -- ping, using ICMP, for example -- need special support
for displaying their information. This support is so dialect-specific
and information to provide it so difficult to find that not all
dialect revisions of lsof handle raw sockets completely.

Other Compile-time Definitions
==============================

The machine.h and dlsof.h header files for each dialect contains
definitions that affect the compilation of lsof. Check the
Definitions That Affect Compilation section of the
 00PORTING file
of the lsof distribution for their descriptions. (Also see The
Customize Script section.)

The AFSConfig Script
====================

Lsof supports AFS on some combinations of UNIX dialect and AFS
version. See the AFS section of this document for a list of
supported combinations.

When configuring for dialects where AFS is supported, the Configure
script calls the AFSConfig script to determine the location of AFS
header files and the AFS version. Configure will not call AFSConfig,
even for the selected dialects, unless the file /usr/vice/etc/ThisCell
exists.

The AFS header file location is recorded in the AFSHeaders file;
version, AFSVersion. Once these values have been recorded, Configure
can be told to skip the calling of AFSConfig by specifying its
(Configure's) -n option.

The Inventory Script
====================

The lsof distribution contains a script, called Inventory, that
checks the distribution for completeness. It uses the file 00MANIFEST
in the distribution
as a reference point.

After the Configure script has accepted the dialect abbreviation,
it normally calls the Inventory script to make sure the distribution
is complete.

After Inventory has run, it creates the file ".ck00MAN" in the
top-level directory to record for itself the fact that the inventory
has been check. Should Inventory be called again, it senses this
file and asks the caller if another check is in order, or if the
check should be skipped.

The -n option may be supplied to Configure to make it bypass the
calling of the Inventory script. (The option also causes Configure
to avoid calling the Customize script.)

The lsof power user may want to define (touch) the file ".neverInv".
Configure avoids calling the Inventory script when ".neverInv"
exists.

The Customize Script
====================

Normally when the Configure script has finished its work, it calls
another shell script in the lsof distribution called Customize.
(You can tell Configure to bypass Customize
with its -n option.)

Customize leads you through the specification of these important
compile-time definitions for the dialect's machine.h header file:

HASDCACHE device cache file control
HASENVDC device cache file environment
variable name
HASPERSDC personal device cache file path
format
HASPERSDCPATH name of environment variable that
provides an additional component
of the personal device cache file
path
HASSYSDC system-wide device cache file path
HASKERNIDCK the build-time to run-time kernel
identity check
HASSECURITY the security option

HASNOSOCKSECURITY the open socket listing option whe
HASSECURITY is defined
WARNDEVACCESS /dev (or /devices) warning message
control
WARNINGSTATE warning message issuance state

The Customize script accompanies its prompting for entry of new values for these definitions with brief descriptions of each of them. More information on these definitions may be found in this file or
in the 00DCACHE and 00FAQ files of the lsof distribution.

You don't need to run Customize after Configure. You can run it later or you can edit machine.h directly.

The -n option may be supplied to Configure to make it bypass the calling of the Customize script. (The option also causes Configure to avoid calling the Inventory script.)

The lsof power user may want to define (touch) the file ".neverCust". Configure avoids calling the Customize script when ".neverCust" exists.

Customize CAUTION: the Customize script works best when it is applied to a newly configured lsof source base -- i.e., the machine.h header file has not been previously modified by the Customize script. If you have previously configured lsof, and want to rerun the Customize script, I recommend you clean out the previous configuration and create a new one:

```
$ Configure -clean
$ Configure <dialect_abbreviation>
...
Customize in response to the Customize script prompts.
```

Cautions
========

Lsof is a tool that
is closely tied to the UNIX operating system
version. It uses header files that describe kernel structures and reads kernel structures that typically change from OS version to OS version, and even within a version as vendor patches are applied.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION, ON ANOTHER. VENDOR PATCHES INFLUENCE THE VERSION IDENTITY.

On some UNIX dialects lsof versions may be even more restricted by
architecture type.

The bottom line is use lsof where you built it. If you intend to
use a common lsof binary on multiple systems, make sure all systems
run exactly the same OS version and have exactly the same patches.

Warranty
========

Lsof is provided as-is without any 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 lsof is with
you. Should lsof prove defective, you assume the cost
of all
necessary servicing, repair, or correction.

License
=======

Lsof has no license. Its use and distribution are subject to these
terms and conditions, found in each lsof source file. (The copyright
year in or format of the notice may vary slightly.)

```
/*
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on any computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
 *
 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
```

```
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

Bug Reports
==========

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF TO THE UNIX DIALECT OR DIALECT OPTION VENDOR.

At worst such bug reports will confuse the vendor; at best, the vendor will forward the bug report to me.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF BINARIES BUILT OR DISTRIBUTED BY SOMEONE ELSE, BECAUSE I CAN'T SUPPORT THEM.

Before you send me a bug report,
please do these things:

* Make sure you try the latest lsof revision.

  + Download the latest revision from:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

  + Verify the signatures of what you have downloaded;

  + While connected to lsof.itap.purdue.edu, check for patches:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/patches

  + If patches exist, install them in the latest revision you just downloaded. Then build the latest revision and see if it fixes your bug.

* If you're having trouble compiling lsof with gcc, try the UNIX dialect vendor's compiler. I don't have access to gcc on all test systems, so my support for it is hit-and-miss, and so

is my ability to respond to gcc compilation problem reports.

* Check the lsof frequently asked questions file, 00FAQ, to see if there's a question and answer relevant to your problem.

* Make sure you're running the lsof you think you are by checking the path to it with which(1). When in doubt, use an absolute path to lsof. Make sure that lsof binary has sufficient permissions to do what you ask, including internal permissions given it (e.g., restrictions on what files lsof may report for whom) during its build.

When you send a bug report, make sure you include output from your running of lsof's Configure script. If you were able to compile a running lsof, please also include:

* Output from which(1) that shows the absolute path to the lsof binary in question;

* Output from running lsof with its -h and -v options at lsof's absolute path;

* Output from "ls -l" directed to lsof's absolute path.

If you weren't able to compile a running lsof, please send me: the compiler error output; identification of the lsof revision you're using (contents of the lsof version.c file); identification of your system (full uname output or output from whatever other tool identifies the system); and compiler identification (e.g., gcc -v output).

Either set of output will help me understand how lsof was configured and what UNIX dialect and lsof revision is involved.

Please send all bug reports, requests, etc. to me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

The 00FAQ File
==============

The lsof distribution contains an extensive frequently asked questions file on lsof features and problems. I recommend you consult it before sending me e-mail. Use your favorite editor or pager to search 00FAQ -- e.g., supplying as a search argument some

fixed text from an lsof error message.

The lsof-l Mailing List
==========

Information about lsof, including notices about the availability
of new revisions, may be found in mailings of the lsof-l listserv.
For more information about it, including instructions on how to
subscribe, read the 00LSOF-L file of
the lsof distribution.

Field Output Example Scripts
==========

Example AWK and Perl 4 or 5 scripts for post-processing lsof field
output are locate in the scripts sub-directory of the lsof distribution.
The scripts sub-directory contains a 00README file with information
about the scripts.

Field Output C Library
==========

The lsof test suite (See "Testing Lsof."), checks basic lsof
operations using field output. The test suite has its own library
of C functions for common test program operations, including
processing of field output. The library or selections of its
functions could be adapted for use by C programs that want to
process lsof field output. See the library in the file LTlib.c
in the tests/ sub-directory

Testing Lsof
==========

Lsof has an automated test suite in the tests/ sub-directory that
can be used to test some basic lsof features -- once lsof has been
configured and made. Tests are arranged in three groups: basic
tests that
should run on all dialects; standard tests that should
run on all dialects; and optional tests that may not run on all
dialects or may need special resources to run. See 00TEST for more
information.)

CAUTION!!! Before you attempt to use the test suite make sure that
the lsof you want to test can access the necessary kernel resources

-- e.g., /dev/mem, /dev/kmem, /proc, etc. Usually you want to test the lsof you just built, so this is an important check. (See 00TEST.)

To run the basic and standard tests, using the lsof in the parent directory of tests/, do this:

```
 $ cd tests
 $ make test
   or $ make std
   or $ make standard
```

The basic and standard tests may be run as silently as possible, using the lsof in the parent directory of tests/, with:

```
 $ cd tests
 $ make auto
```

This is the "automatic" test mode, designed for use by scripts that build lsof. The caller is expected to test the make exit code to determine if the tests succeeded. The caller should divert standard output
 and standard error to /dev/null to suppress make's error exit message.

The optional tests may be run, using the lsof in the parent directory of tests/, with:

```
 $ cd tests
 $ make opt
   or $ make optional
```

It's possible to excute individual tests, too. See the 00TEST file of this distribution for more informaiton on the tests, what they do, and how to run and possibly customize each test.

It's possible to run the tests, using an lsof other than the one in the parent directory of /tests, too. See 00TEST for information about using the LT_LSOF_PATH environment variable to do that.

==========
Dialect Notes
==========

AFS
===

Lsof recognizes AFS files on the following combinations of UNIX
dialect and AFS versions:

AIX 4.1.4 (AFS 3.4a)
Linux 1.2.13 (AFS 3.3)
NEXTSTEP 3.2 (AFS 3.3) (untested on recent lsof revisions)
Solaris 2.6 (AFS 3.4a)
Ultrix 4.2 RISC (AFS 3.2b) (no longer available)

Lsof has not been tested under other combinations -- e.g. HP-UX
10.10 and AFS 3.4a
-- and probably won't even compile there. Often
when a UNIX dialect version or AFS version changes, the new header
files come into conflict, causing compiler objections.

AIX
===

Specify the aix Configure abbreviation for AIX 4.1.[45], 4.2[.1],
4.3[.123], 5L, and 5.[123].

Specify aixgcc on AIX above 4.1 to use the gcc compiler. (Gcc can't be
used to compile lsof on AIX 4.1 and below because of kernel structure
alignment differences between it and xlc.) Gcc results sometimes
depend on the version of the gcc compiler that is used.

Compilation of lsof with gcc on AIX 4.3[.123], 5L, and 5.[123] has been
sparsely tested with varying degrees of success: it has been reported
to succeed on AIX 4.3.3 and 32 bit Power AIX 5.1; to fail on ia64 AIX
5.1 and 64 bit Power AIX 5.1; and to succeed on 32 and 64 bit Power AIX
5.2. Lsof compilation with gcc hasn't been tested on AIX 5.3.

At revision 4.61 and above lsof is configured and built to match the
bit size of the kernel of Power architecture
AIX 5.1 systems. Lsof
binaries built for 32 and 64 bit kernels are not interchangeable. See
00FAQ for more information.

The Configure script uses /usr/bin/oslevel to determine the AIX version
for AIX less than 5 and ``uname -rv'' for AIX 5 and higher. If
/usr/bin/oslevel isn't executable on AIX less than 5, the Configure
script issues a warning message and uses ``uname -rv'' to determine the
AIX version.

When Configure must use ``uname -rv'' on AIX less than 5 to determine
the AIX version, the result will lack a correct third component --

e.g., the `4' of ``4.1.4". If your AIX less than 5 system lacks lacks
an executable oslevel, I suggest you edit the Configure-produced
Makefile and complete the _AIXV definition in the CFGF string.

By default lsof avoids using the kernel's readx() function, causing
it to be unable to report information on some text and library file
references. The ``-X" option allows the lsof user to ask for the
information readx() supplies.

Lsof avoids
readx() to avoid the possibility of triggering a kernel
problem, known as the Stale Segment ID kernel bug. Kevin Ruderman
reported this bug to me. The bug shows up when the kernel's
dir_search() function hangs, hanging the application process that
called it so completely that the application process can neither
be killed nor stopped. The hang is the consequence of another
process (perhaps lsof) making legitimate use of the kernel's readx()
function to access the kernel memory that dir_search() is examining.
IBM has indicated they have no plans to fix the bug.

A fuller discussion of this bug may be found in the 00FAQ file of
the lsof distribution. There you will find a description of the
Stale Segment ID bug, the APAR on it, and a discussion of the
sequence of events that exposes it.

I added the ``-X" function so you can tell lsof to use readx(),
but if you use ``-X", you should be alert to its possibly serious
side effects. Although readx() is normally disabled, its state
is
controlled with the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE
definitions in dialects/aix/machine.h, and you can change its
default state by changing those definitions. You can also change
HASXOPT_ROOT via the Customize script.

You can also compile lsof with readx() use permanently enabled or
disabled -- see the comments about the definitions in the
dialects/aix/machine.h header file. You may want to permanently
disable lsof's use of readx() if you plan to make lsof publicly
executable. You can also restrict -X to processes whose real UID
is root by defining HASXOPT_ROOT.

I have never seen lsof cause the Stale Segment ID bug to occur and
haven't had a report that it has, but I believe there is a possibility
it could.

AFS support for AIX was added with help help from Bob Cook and Jan
Tax who provided test systems.

Henry Grebler and David J. Wilson helped with lsof for AIX 4.2.

Bill Pemberton provided an AIX 4.3 test system. Andrew Kephart
and Tom Weaver provided AIX 4.3 technical
assistance. Niklas
Edmundsson did 4.3.1 testing. Doug Crabill provided an AIX 4.3.2
test system. Jeff W. Stewart provided an AIX 4.3.3 test system.

The SMT file type for AIX 4.1.[45], 4.2[.1], and 4.3[.12] is my
fabrication. See the 00FAQ file more information on it.

Loc Le and Nasser Momtaheni of IBM provided test systems for AIX 5L and
5.1. Lsof for AIX 5L and 5.1 needs setuid-root permission to process
the -X option on systems whose architecture type is ia64.

Dale Talcott of Purdue provided AIX 5.1 and 5.2 test systems. Dale and
John Jackson of Purdue provided an AIX 5.3 test system.

Apple Darwin
============

The Apple Darwin port was provided by Allan Nathanson for version
1.2. Allan also arranged for access to a test system for maintenance
and regression testing. Dale Talcott provided a test system, too.

Allan supplied patches for updates to 1.4, 5.x, 6.x, 7.x and 8.x.

BSDI BSD/OS
===========

As of lsof revision 4.77 support for BSDI BSD/OS has been
discontinued.
Lsof revision 4.76 with BSDI BSD/OS support may be found
on lsof.itap.purdue.edu in pub/tools/unix/lsof/src.

DEC OSF/1, Digital UNIX, Tru64 UNIX
===================================

Robert Benites, Dean Brock, Angel Li, Dwight McKay, Berkley Shands,
Ron Young and Steve Wilson have kindly provided test systems.
Jeffrey Mogul has provided technical assistance. Dave Morrison
and Lawrence MacIntyre did Digital UNIX V3.2 testing.

Lsof supports the ADVFS/MSFS layered file system product. Lsof
can locate all the open files of an ADVFS/MSFS file system when

its path is specified, provided the file system is listed in
/etc/fstab with an ``advfs'' type. (This /etc/fstab caveat applies
only to Digital UNIX 2.0.) At Digital UNIX 4.0 and Tru64 UNIX,
using code provided by David Brock, lsof 4.20 and above can locate
ADVFS file paths.

Testing of lsof on DEC OSF/1 and Digital UNIX 4.0 ended with lsof
revision 4.74. Hence, the lsof documentation has dropped the claim
that it works there.
  For a distribution of lsof 4.74 that was tested
on DEC OSF/1 and Digital UNIX 4.0, check pub/tools/unix/lsof/OLD/src
on the lsof ftp home, lsof.itap.purdue.edu.

Lsof revisions past 4.74 have only been tested on Tru64 UNIX 5.1.

FreeBSD
=======

Bill Bormann of Purdue University provided access to several FreeBSD
test systems. Ade Barkah, John Clear, Ralph Forsythe, Michael
Haro, Kurt Jaeger, and William McVey have also provided FreeBSD
test systems.

The FreeBSD distribution header files are augmented by header files
in the dialects/freebsd/include directory.

Larry Rosenman maintains the lsof FreeBSD port package.

HP-UX
=====

Lsof has two HP-UX bases: /dev/kmem for HP-UX 11.0 and earlier;
and PSTAT for HP-UX 11.11 and later. The lsof Configure script
will pick the appropriate base.

To use the CCITT x.25 socket support for HP-UX, you must have the
x.25 header files in /etc/conf/x25

Pasi Kaara helped with the HP-UX port, especially with its CCITT
x.25 socket support.

Richard
 Allen provided HP-UX 10.x and 11.x test systems, as did
Mark Bixby, and Elias Halldor Agustsson. Marc Winkler helped test
the 10.20 port. Richard J. Rauenzahn provided a 64 bit HP-UX 11
test system and an HP-UX 11.11 development system.

AFS support for HP-UX was added thanks to help from Chaskiel Moses
Grundman, who provided a test system.

The /dev/kmem-based HP-UX 11.00 support is extremely fragile. It
depends on privately developed kernel structure definitions. (See
.../dialects/hpux/hpux11 for the header files making the definitions.)
Those header files and their definitions will not be updated by
HP-UX 11.00 patches, making it likely that any patch changing a
kernel structure critical to lsof will break lsof in some way.

It's possible to build a 64 bit lsof for 64 bit HP-UX 11.00 with
gcc, but you must have a gcc compiler capable of producing 64 bit
executables. See the 00FAQ file for more information.

The PSTAT-based lsof for HP-UX 11.11 and later is much more solid.
I
am indebted to the vision of HP for providing an lsof kernel API
through the PSTAT implementation. Specifically I appreciate the
help of HP staff members Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada that made PSTAT-based HP-UX lsof
possible.

IPv6
====

Lsof has IPv6 support that has been tested for these UNIX dialects:
AIX 4.3.x; Apple Darwin 5.[12] and 6.0; the INRIA and KAME FreeBSD IPv6
implementations; PSTAT-based HP-UX; /proc-based Linux; the INRIA and
KAME NetBSD implementations; and Solaris 8 and 9. Lsof has IPv6
support that hasn't been tested for: OpenBSD (KAME); OpenUNIX 8; Tru64
Unix 5.[01]; and UnixWare 7.1.[34].

Please let me know if your UNIX dialect has IPv6 support and I'll
see if it can be supported by lsof.

Linux
=====

Tim Korb, Steve Logue, Joseph J. Nuspl Jr., and Jonathan Sergent
have provided Linux test systems.

Michael Shields helped add and test automatic handling of ELF/COFF
form names in /System.map, Marty Leisner and Keith
Parks have helped
test many lsof revisions. Marty has provided valuable suggestions,

Linux hints, and code, too.

The 00FAQ file gives some Linux tips, including information on
coping with system map file problems.

To determine the state of the Linux 2.1.x C library lseek() function,
the lsof Configure script runs a test program that must have
permission to read /dev/kmem. The test determines if the lseek()
function properly handles kernel offsets, which appear to be negative
because their high order bit is set. If the lseek() test reveals
a faulty lseek(), Configure activates the use of a private lseek()
function for kernel offset positioning. See the Linux problems
section of the 00FAQ file of the lsof distribution for more
information.

NetBSD
======

Greg Earle and Paul Kranenburg have assisted with the NetBSD ports.
Paul has provided test systems. Ray Phillips provided a NetBSA
Alpha test system. Andrew Brown also provided a test system.

The NetBSD dialect version of lsof
is compiled using the dialect
sources it shares with OpenBSD in the n+obsd dialect sub-directory.

NEXTSTEP and OPENSTEP
=====================

Virtual memory header files that allow lsof to display text references
were derived from the contents of /usr/include/vm of NEXTSTEP 2.0.
NeXT did not ship the virtual memory header files with other NEXTSTEP
or OPENSTEP versions.

You may use the RC_FLAGS environment variable to declare compiler
options outside the Makefile. A common use of this variable is to
define the architecture types to be included in a "fat" executable.
See the comments in dialects/next/Makefile for an example.

OpenBSD
=======

David Mazieres has provided OpenBSD test systems. The OpenBSD
dialect version of lsof is compiled using the dialect sources it
shares with NetBSD in the n+obsd dialect sub-directory.

Kenneth Stailey has provided OpenBSD testing and advice.

John Dzubera (Zube) reports, "lsof 4.33 compiles and runs on OpenBSD 2.3 for the pmax architecture
(decstation 3100)."

I have not tested lsof on OpenBSD 3.8, but David Mazieres reports revision 4.76 worked on OpenBSD 3.8.

Pyramid DC/OSx and Reliant UNIX
==========

As of lsof revision 4.52 support for all Pyramid dialects has been discontinued. Lsof revision 4.51 with Pyramid support may be obtained upon request. Send the request to abe@purdue.edu.

These two UNIX dialects are very similar and share dialect-specific source files from the pyramid sub-directory.

The Reliant Unix Pyramid C compiler issues warning messages that I haven't found a convenient way to suppress. You can ignore warning messages about casts and conversions that lose bits. The message "warning: undefining __STDC__" is intentionally caused by the lsof MkKernOpts configuration script to suppress warning messages about cast and conversion problems in standard system header files, such as <stdio.h> and <string.h>.

Bruce Beare and Kevin Smith provided test systems.

Caldera OpenUNIX
==========

Larry
Rosenman provided an OpenUNIX 8 test system. Matthew Thurmaier provided technical assistance, along with these people from Caldera: Jack Craig, Robert Lipe, and Bela Lubkin.

Robert Lipe supplied changes to lsof for OpenUNIX 8.0.1. Those changes were also incorporated in UnixWare 7.1.3 when it became the release name for OpenUNIX 8.0.1.

Support for lsof on OpenUNIX ended at lsof revision 4.74. The last lsof revision, 4.74, tested on OpenUNIX, may be found at the lsof "home" ftp site, lsof.itap.purdue.edu, in pub/tools/unix/lsof/OLD/src.

SCO OpenServer
==============

Dion Johnson, Bela Lubkin, and Nathan Peterson of SCO gave me copies
of SCO OpenServer and the SCO OpenServer Development System 3.0
and provided technical advice for the lsof port.

Hugh Dickins, Bela Lubkin, Craig B. Olofson, and Nathan Peterson
provided version 5.0 and gave technical advice for porting lsof to
it. Bela provided the 5.0.4 changes. D. Chris Daniels provided
a 5.0.4 test system,
 Lee Penn provided one for 5.0.5, and John
Dubois for 5.0.6.

The <netdb.h> header file was accidentally omitted from some SCO
OpenServer Development System releases. The Configure script will
sense its absence and substitute an equivalent from the BSD
distribution. The BSD <netdb.h> and the <sys/cdefs.h> header file
it includes are located in the dialects/os/include sub-directory
tree.

To compile lsof from its distribution sources you must have the
TCP/IP and NSF headers in /usr/include. While those are optional
OpenServer packages, I have access to no system that doesn't have
them, so I'm unable to build lsof for such a configuration. However,
it should be possible to modify the lsof Configure script and
sources so lsof would compile and work without those optional
packages.

If you have an OpenServer system configured without the TCP/IP and
NFS packages, and want to tackle the job of building lsof for it,
contact me via e-mail at <abe@purdue.edu>. I'll identify the
Configure
 script, header file, and source file changes you will
need to make. (Caution: this is not a simple task, or I would have
already done it.)

The optional osrgcc and scogcc Configure abbreviations construct
Makefiles for compiling lsof with gcc.

The UnixWare 7.1.4 sources are used for OpenServer Release 6.0.0.
Hence there is a separate Configure abbreviation for it, "osr6".
Richard of SCO provided a test system and technical assistance.

SCO|Caldera UnixWare
============

D. Chris Daniels, John Hughes, Ken Laing, Andrew Merril, Lee Penn, and
Matthew Thurmaier provided test systems. Bela Lubkin provided
technical assistance. Larry Rosenman provided 7.1.[34] test systems.

Solaris 2.x, 7, 8, 9 and 10
==========

SEE THE CAUTIONS SECTION OF THIS DOCUMENT.

The latest Solaris revision of lsof 4 might work under Solaris
2.[1-4] and 2.5[.1] and 7 but hasn't been tested there. I have no
test systems for those Solaris versions.

Lsof will compile with gcc and the Sun C compiler
 under Solaris.
If you want to use the Sun compiler, use the solariscc Configure
abbreviation. If you use a gcc version less than 2.8 on Solaris,
make sure the gcc-specific includes have been updated for your
version of Solaris -- i.e., run the gcc fixincludes script.

Solaris 7, 8, 9 and 10 support for 64 bit kernels depends on a Sun
WorkShop or Forte C compiler version that supports the "-xarch=v9"
flag -- usually 5.0 or greater. Gcc versions 2.95 and above *may*
be configured and built for 64 bit support, but it takes some extra
work, the resulting compiler may be fragile, and the gcc developers
discourage it. I've built 64 bit capable gcc compilers for Solaris
7, 8 and 9 from gcc versions 2.95 through 3.0.1 and produced working
lsof executables with them. More information on 64 bit gcc for
Solaris may be found in the 00FAQ file.

Solaris 10 ZFS support is questionable, because Sun does not distribute
the ZFS kernel structure definition header files. The lsof Configure
script
 and source code use some risky work-arounds. ZFS file system
support was made possible with help from Horst Scheuermann.

Dave Curry and Steve Kirsch provided resources for Solaris 2.x
ports. Casper Dik and Gerry Singleton consulted and provided
valuable assistance.

Henry Katz, Joseph Kowalski, Charles Stephens, Mike Sullivan, and
Mike Tracy provided technical assistance.

AFS support was added to Solaris lsof with help from Curt Freeland,
Heidi Hornstein, Michael L. Lewis, Terry McCoy, Phillip Moore, and
Sushila R. Subramanian.

Casper Dik provided valuable assistance for the Solaris 8 support.

Sun has graciously provided me access to BETA versions of Solaris
2.5, 2.6, 7, 8, and 9.

John Dzubera provided Solaris 7 and 8 test systems.

Mike Miscevic provided Solaris 10 test systems.

Ultrix
======

As of lsof revision 4.52 support for Ultrix is no longer available,
because I no longer have an Ultrix test system.

Terry Friedrichsen, Dwight McKay, and Jeffrey Mogul helped me
 with
this port.

DECnet support was added to Ultrix lsof with the help of John
Beacom, who kindly provided a test system. The Configure script
decides that DECnet support is available if /usr/lib/libdnet.a and
/usr/include/netdnet/dn.h exist and are readable.

Veritas VxFS and VxVM
=====================

Lsof supports some versions of Veritas VxFS and VxVM on some UNIX
dialects. Consult the lsof Configure script for the specific
dialect, and consult the lsof dialect-specific source files for
the UNIX dialect of interest. Veritas support will usually be
found in a source file named dnode[1-9].c.

Since Veritas rarely has a version number that can be extracted
with shell commands, lsof doesn't use it. Instead, when lsof
supports Veritas, the Configure script will form compile-time
definitions starting with HASVXFS.   Check the lsof 00PORTING
documentation file for more information.

Lsof Veritas support requires that the supporting Veritas header
files be installed -- e.g., in /usr/include/sys/fs.
 (The location
will depend in the dialect's header file conventions.)

Some information on lsof support for Veritas extensions may be

found in the lsof 00DIST file. (The ChangeLog file points to
00DIST.)

Chris Kordish and Andy Thomas have provided Solaris VxFS test
systems.

==========
User-contributed Dialect Support
==========

There are some user-contributed dialect versions of lsof; more
information on them can be found at:

 ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Check the 00INDEX file there for details.

==========
Dialects No Longer Supported
==========

Because I don't have access to test systems, these UNIX dialects
are no longer supported by lsof:

 CDC EP/IX
 /dev/kmem-based Linux
 MIPS RISC/os
 Motorola V/88
 Pyramid DC/OSx
 Pyramid Reliant UNIX
 Sequent DYNIX
 SGI IRIX
 SunOS 4.x
 Ultrix
 UnixWare below 7.0

Remnants of the support lsof once provided for these
 dialects may
be found in:

 ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/dialects

==========
Installing Lsof
==========

The distributed Makefiles do not have actions that will install lsof. I've come to the conclusion there is no standard for installing lsof or its man page, so I no longer distribute make rules for installing them. You should adjust the Makefile for your local preferences.

The Makefile does have an install rule that will cause lsof to compile by virtue of its dependency clause. Some Makefiles also have a dependency that causes the production of a man page that is ready to install. However, the actions of the install rule will not cause the lsof executable or its man page to be installed in any UNIX system-wide directory.

Instead, after the compilation and optional man page production are completed, the install rule will produce a brief description of what actions you might add to the install rule. The description will suggest the possible
modes, ownerships, permissions, and
destinations your install rule might employ to install the lsof executable and man page.

As you form your install rule, keep in mind that lsof usually needs some type of special permission to do its job. That may be permission to read memory devices such as /dev/kmem, /dev/mem, or /dev/swap, or it may be authorization to read entries in the /proc file system.

Memory device access can usually be provided by setting the modes of the lsof executable so that it's effective group identifier when it runs is the same as the group that has permission to read the memory devices -- i.e., it is setgid-group. The privileged group is usually kmem, sys, or system.

Don't overlook using ACLs -- e.g., on AIX or Solaris 8 -- to give lsof permission to access memory devices. ACLs, coupled to a separate group like kmem, can be safer than giving lsof setgid authorization to a commonly used system group.

When lsof needs to read /proc file system entries, it must be installed
with modes that make its effective user identifier root when it runs -- i.e., it must be setuid-root. If lsof must be installed setuid-root (only the AIX 5L, PSTAT-based HPUX, and /proc-based Linux, ports need such power.), then access to memory devices is automatic (or not needed in the case of /proc-based Linux).

Your choice of permissions for lsof may also be affected by your

desire to allow anyone to use it or your need to restrict its usage
to specific individuals. You will have to be guided by local policy
and convention in this case.

The next two sections, Setgid Lsof Dialect Versions and Setuid-root
Lsof Dialect Versions, list recommended install permissions.

The system directory where you install the lsof executable is also
open to choice. A traditional place for a tool like lsof is
/usr/local/etc, but recent changes in directory structure organization
suggest that somewhere in /opt may be more suitable.

Bear one other factor in mind when choosing a location
 for the lsof
executable -- it usually is a shared executable, requiring access
to shared libraries. Thus, locations like /sbin or /usr/sbin are
probably unsuitable.

Once you've chosen a location for the executable you may find that
the location for the man page follows -- e.g., if the executable
goes in /usr/local/etc, then the man page goes in /usr/local/man.
If the executable location doesn't imply a location for the man
page, you'll have to let local custom guide you.

Setuid-root Lsof Dialect Versions
==========

These dialect versions should be installed with setuid-root
permission -- i.e., the lsof binary should be owned by root and
its setuid execution bit (04000) should be set.

 AIX 5L and above for full use of the -X option
 Apple Darwin 8.x for Power Macintosh systems
 PSTAT-based HP-UX 11.11 and 11.23
 /proc-based Linux (generally 2.1.72 and above)

Setgid Lsof Dialect Versions
==========

These dialect versions should be installed
 with setgid permission,
owned by the group that can read kernel memory devices such as
/dev/drum, /dev/kmem, /dev/ksyms, /dev/mem, /dev/swap. ACLs may
be another mechanism (e.g., under AIX or Solaris 8) you can use to
grant read permission to the kernel memory devices.

AIX 4.1.[45], 4.2[.1], and 4.3[.123]
Apple Darwin 7.x for Power Macintosh systems
DEC OSF/1, Digital UNIX, Tru64 UNIX 2.0, 3.2, 4.0, and 5.[01]
FreeBSD 2.1.6, 2.2[.x], 3.x, 4.x, 5.x, [6789].x and 1[012].x
NetBSD 1.[456], 2.x and 3.x
NEXTSTEP 3.[13]
OpenBSD 2.[89] and 3.[0-9]
OPENSTEP 4.x
Caldera OpenUNIX 8
SCO OpenServer 5.0.[46]
SCO UnixWare 7.0 and 7.1.[0134]
Solaris 2.6, 8, 9 and 10
Ultrix 4.2 (no longer available)

==========
Porting lsof 4 to a New UNIX Dialect
==========

If you're brave enough to consider this, look at the 00PORTING
file. Please contact me before you start. I might be able to help
you or even do the port myself.

Don't overlook
the contrib/ directory in pub/tools/unix/lsof on my
ftp server, lsof.itap.purdue.edu. It contains user-contributed ports
of lsof to dialects I don't distribute, because I can't test new
revisions of lsof on them.

==========
Quick Start to Using lsof
==========

For information on how to get started quickly using lsof, consult
the 00QUICKSTART file of the lsof distribution. It cuts past the
formal density of the lsof man page to provide quick examples of
using lsof to solve common open file display problems.

==========
Cross-configuring Lsof
==========

Using environment variables it is possible to Configure (and possibly
build) lsof for one UNIX dialect on a different one -- e.g., you
are running Configure on a Linux 2.3 system and you want to Configure
and build lsof for Linux 2.4.

See the 00XCONFIG file of the lsof distribution for a discussion
of how to do this.

==========
Environment
 Variables Affecting the Configure Script
==========

Configure script actions can be modified by introducing values to
the script via environment variables. In many cases the environment
variable values take the place of test operations the Configure
script makes.

For more information on environment variables that can affect
Configure, consult the 00XCONFIG file of the lsof distribution.
See the General Environment Variables sections for descriptions of
ones that affect all dialects. Consult the Dialect-Specific
Environment Variables section for ones that might affect the dialect
you are trying to configure.

Vic Abell <abe@purdue.edu>
February 14, 2018

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/00README
No license file was found, but licenses were detected in source scan.

/*
* Copyright 1994 Purdue Research Foundation, West Lafayette, Indiana
* 47907. All rights reserved.
*
* Written by Victor A. Abell
*
* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on
* any computer system, and to alter it and redistribute it freely, subject
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*
* 2. The origin of this software must not be misrepresented, either by
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*   University must appear in documentation and sources.

*
* 3. Altered versions must be plainly marked as such, and must not be
*   misrepresented as being the original software.
 *
* 4. This notice may not be removed or altered.
*/
/*
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* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/print.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2000 Purdue Research Foundation, West Lafayette, Indiana
* 47907. All rights reserved.
*

* Written by Victor A. Abell
*
* This software is not subject to any license of the American Telephone
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/* Definitions for data structures and routines for the regular
  expression library, version 0.12.
  Copyright (C) 1985,1989-1993,1995-1998, 2000 Free Software Foundation, Inc.

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```
#!/usr/bin/perl
#
# list_fields.pl   -- sample Perl script to list lsof full field output
#       (i.e., -F output without -0)
#
```

```
# This script has been tested under perl versions 4.036 and 5.001e.
#
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# Initialize variables.

$fhdr = 0;       # fd hdr. flag
$fdst = 0;       # fd state
$access = $devch = $devn = $fd = $inode = $lock = $name = ""; # | file descr.
$offset = $proto = $size = $state = $stream = $type = ""; # | variables
$pidst = 0;       # process state
$cmd = $login = $pgrp = $pid = $ppid = $uid = "";  # process var.

# Process the ``lsof -F'' output a line at a time, gathering
# the variables for a process together before printing them;
# then gathering the variables for each file descriptor
# together before printing them.

while (<>) {
  chop;
  if (/^p(.*)/) {

# A process set begins with a PID field whose ID character is `p'.

 $tpid = $1;
```

```
 if ($pidst) { &list_proc }
 $pidst = 1;
 $pid = $tpid;
 if ($fdst) { &list_fd; $fdst = 0; }
 next;
   }

# Save process-related values.

  if (/^g(.*)/) { $pgrp = $1; next; }
  if (/^c(.*)/) { $cmd = $1; next; }
  if (/^u(.*)/) { $uid = $1; next; }
  if (/^L(.*)/) { $login = $1; next; }
  if (/^R(.*)/) { $ppid = $1; next; }

# A file descriptor set begins with a file descriptor field whose ID
# character is `f'.

  if (/^f(.*)/) {
 $tfd = $1;
 if ($pidst) { &list_proc }
 if ($fdst) { &list_fd }
 $fd = $tfd;
 $fdst = 1;
 next;
  }

# Save file set information.

  if (/^a(.*)/) { $access = $1; next; }
  if (/^C(.*)/) { next; }
  if (/^d(.*)/) { $devch = $1; next; }
  if (/^D(.*)/) { $devn = $1; next; }
  if (/^F(.*)/) { next; }
  if (/^G(.*)/) { next; }
  if (/^i(.*)/) { $inode = $1; next; }
  if (/^k(.*)/) { next; }
  if (/^l(.*)/) { $lock = $1; next; }
  if (/^N(.*)/) { next; }
  if (/^o(.*)/) { $offset = $1; next; }
  if (/^P(.*)/) { $proto = $1; next; }
  if (/^s(.*)/) { $size = $1; next; }
  if (/^S(.*)/) { $stream = $1; next; }
  if (/^t(.*)/)
 { $type = $1; next; }
  if (/^T(.*)/) {
 if ($state eq "") { $state = "(" . $1; }
 else { $state = $state . " " . $1; }
```

```
 next;
   }
   if (/^n(.*)/) { $name = $1; next; }
   print "ERROR: unrecognized: \"$_\"\n";
}

# Flush any stored file or process output.

if ($fdst) { &list_fd }
if ($pidst) { &list_proc }
exit(0);


## list_fd -- list file descriptor information
#       Values are stored inelegantly in global variables.

sub list_fd {
   if ( ! $fhdr) {

   # Print header once.

 print "     FD   TYPE     DEVICE   SIZE/OFF     INODE  NAME\n";
 $fhdr = 1;
   }
   printf "    %4s%1.1s%1.1s %4.4s", $fd, $access, $lock, $type;
   $tmp = $devn; if ($devch ne "") { $tmp = $devch }
   printf "  %10.10s", $tmp;
   $tmp = $size; if ($offset ne "") { $tmp = $offset }
   printf " %10.10s", $tmp;
   $tmp = $inode; if ($proto ne "") { $tmp = $proto }
   printf " %10.10s", $tmp;
   $tmp = $stream; if ($name ne "") { $tmp = $name }
   print "  ", $tmp;
   if ($state
 ne "") { printf " %s)\n", $state; } else { print "\n"; }

# Clear variables.

   $access = $devch = $devn = $fd = $inode = $lock = $name = "";
   $offset = $proto = $size = $state = $stream = $type = "";
}


# list_proc -- list process information
#       Values are stored inelegantly in global variables.

sub list_proc {
   print "COMMAND      PID    PGRP    PPID  USER\n";
```

```
  $tmp = $uid; if ($login ne "") {$tmp = $login }
  printf "%-9.9s  %6d  %6d  %6d  %s\n", $cmd, $pid, $pgrp, $ppid, $tmp;

# Clear variables.

  $cmd = $login = $pgrp = $pid = $uid = "";
  $fhdr = $pidst = 0;
}
```

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Frequently Asked Questions about lsof

```
*****************************************************************************
| The latest release of lsof is always available via anonymous ftp   |
| from lsof.itap.purdue.edu.  Look in pub/lsof.README for its        |
| location.                                                          |
*****************************************************************************
```

This file contains frequently asked questions about lsof and answers
to them.

Vic Abell <abe@purdue.edu>
October 13, 2014

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1.0 General Concepts

1.1 Lsof -- what is it?

Lsof is a UNIX-specific tool. Its name stands for LiSt Open Files, and it does just that. It lists information about files that are open by the processes running on a UNIX system.

See the lsof man page, the 00DIST file, the 00QUICKSTART file, and the 00README file of the lsof distribution for more information.

1.2 Where do I get lsof?

Lsof is available via anonymous ftp from lsof.itap.purdue.edu.
Look in the pub/tools/unix/lsof sub-directory.

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

Bzip2'd, compressed and gzip'd tar files with GPG certificates
are available.

1.2.1 Are there mirror sites?

On March 21, 2013 these sites appeared to have the lastest
lsof revision:

ftp://ftp.fu-berlin.de/pub/unix/tools/lsof
ftp://sunsite.ualberta.ca/pub/Mirror/lsof
http://www.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
ftp://ftp.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
rsync://rsync.mirrorservice.org/lsof.itap.purdue.edu/pub/tools/unix/lsof/

1.2.2 Are lsof executables available?

Some lsof executables are available in the subdirectory
tree pub/tools/unix/lsof/binaries These are neither guaranteed
to be current nor cover
every dialect and machine architecture.

I don't recommend you use pre-compiled lsof binaries; I
recommend you obtain the sources and build your own binary.
Even if you're a Sun user without a Sun C compiler, you
can use gcc to compile lsof.

If you must use a binary file, please be conscious of the
security and configuration implications in using an executable
of unknown or different origin. The lsof binaries are
accompanied by GPG certificates. Please use them!

Three additional cautions apply to executables:

1. Don't try to use an lsof executable, compiled for one
   version of a UNIX dialect, on another. Patches can
   make the dialect version different.

2. If you want to use an lsof binary on multiple systems,
   they must be running the same dialect OS version and
   have the same patches and feature support.

1.2.3 How do I check the validity of an lsof distribution?

There are two ways to check the validity of an lsof distribution:

1. Follow the instructions in the CHECKSUMS_<revision> file found with the lsof distribution.

   Checking with GPG is the best method.

2. Follow the instructions in the "Security" section of the README.lsof_<revision> file found inside the lsof distribution.

   Again, checking with GPG is the best method.

1.2.4 Why can't I get the sum(1) result reported in README.lsof_<revision>?

The "Security" section of the README.lsof_<revision> file found inside the lsof distribution gives md5, sum, and GPG certificate information.

The simplest, the sum(1) signature, seems to be the trickiest. That's because there are different sum(1) methods, BSD systems usually have cksum(1) instead of sum(1), and different systems compute the block size value differently.

First, the lsof sum results are computed with the old, "alternate" algorithm. On newer systems, you can use sum's "-r" option to get that computation result.

Second, on BSD systems you usually must use cksum(1) instead of sum(1), because they have no sum(1). To tell cksum(1) to use the old, "alternate" algorithm, use its "-o1" option.

Third, the second value that sum reports, the block count, may be computed differently on different systems -- usually block size is considered to be 512 or 1,024. The lsof block counts were computed on a system with a sum(1) option that considers block size to be 512. The BSD system cksum(1) -o1 option considers block size to be 1,024. If your sum(1) or cksum(1) doesn't report a block count that matches the sum(1) signature given in README.lsof_<revision>, check its man page to see what block size it uses, then adjust its reported block count appropriately.

1.2.5 Why won't gpg accept the lsof-signing PGP public key?

An older PGP key that once signed lsof distributions is
included in lsof revisions prior to 4.70. The PGP key is
indeed my key, but is incompatible with GPG. It was created
about ten years ago and is still acceptable to PGP versions
2.6.2
through 6.5.2.

Lsof revisions 4.70 and above are signed with a copy of my PGP
key that has been made acceptable for use with GPG by importing
it under GPG's "--allow-non-selfsigned-uid" option.

You can find my GPG compatible key in lsof revisions 4.70 and
above and at:

ftp://lsof.itap.purdue.edu/pub/Victor_A_Abell.gpg

If you have an older lsof revision with my PGP key, there are
two possible ways to use it:

* Use it with a PGP version from 2.6.2 through 6.5.2.

* Use GPG's "--allow-non-selfsigned-uid" option when you
import my PGP key into your GPG key ring.

$ gpg --allow-non-selfsigned-uid --import Victor_A_Abell.pgp

1.3 Where can I get more lsof documentation?

A significant set of documentation may be found in the lsof
distribution (See "Where can I get lsof?). There is a
manual page, copious documentation in files whose names
begin with 00, and a copy of this FAQ in the file 00FAQ
(perhaps slightly less recent than this file if you're
reading
it via a web browser.)

Two URLs provide some documentation that appears in the
lsof distribution:

FAQ: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

man page: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

1.4 How do I report an lsof bug?

If you believe you have discovered a bug in lsof, you can report it via e-mail to <abe@purdue.edu>. Do NOT report lsof bugs to the UNIX dialect vendor. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

Before you send me a bug report, please read the "Bug Reports" section of the 00README file of the lsof distribution. It lists the steps you should take before and when reporting a suspected bug.

1.5 Where can I get the lsof FAQ?

This lsof FAQ is available in the file 00FAQ in the lsof distribution and at the URL:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

1.5.1 How timely is the on-line FAQ?

The on-line FAQ is sometimes too timely. :-)

I
update it as soon as new information is available. That may include information about support that won't appear in the lsof source distribution until the next revision. If you encounter something like that, please send me e-mail at <abe@purdue.edu>. I may be able to point you at a pre-release distribution that contains the support of interest. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

1.6 Is there a test suite?

Yes, as of lsof revision 4.63 there's an automated lsof test suite in the tests/ sub-directory of the lsof top-level directory.

More information on using the test suite, what it does, how to use it and how to configure it may be found in the 00TEST file of the lsof distribution. That file also explains where the test suite has been tested.

Frequently asked questions about the test suite will be asked and answered here in the FAQ. (See "Test Suite Problems.")

After lsof has been configured

with the Configure script,
lsof can be made and tested with:

```
$ make
$ cd tests
$ make
```

Under normal conditions -- i.e., unless the lsof tree has
been cleaned or purged severely -- all tests or individual
tests may be run by:

```
$ cd test
$ make
```
or
```
$ <run a single test> (See 00TEST.)
```

1.7 Is lsof vulnerable to the standard I/O descriptor attack?

Lsof revisions 4.63 and above are not vulnerable.

Lsof revisions 4.62 and below are vulnerable, but no damage
scenarios have so far been demonstrated.

The standard I/O descriptor attack is a local programmed
assault on setuid and setgid programs that tricks them into
opening a sensitive file with write access on a standard
descriptor, usually stderr (2), and writing error messages
to stderr. If the attacker can control the content of the
error message, the attacker may gain elevated privileges.

The attack was first described in Pine Internet Advisory
PINE-CERT-20020401, available at:

http://www.pine.nl/advisories/pine-cert-20020401.txt

If you are using an lsof revision below 4.63, you should
remove any setuid or setgid permissions you might have
given its executable. Then you should upgrade to lsof
revision 4.63.

1.8 Can I alter lsof's make(1) behavior?

Yes. There are at least two ways to do that.

You can put replacements for lsof Makefile strings in your
environment. If you specify the -e make option, make will
give environment variable values precedence over strings

from the Makefile. For example, to change the compiler string CC from the environment, you might do this with the Bourne shell:

```
$ CC=foobar; export CC
$ make -e
```

You can also replace lsof Makefile strings in the make command invocation. Here's the previous example done that way:

```
$ make CC=foobar
```

Changing the CFGF, CFGL, and DEBUG strings used in lsof Makefiles, either from the environment or from the make invocation, can significantly alter lsof make(1) behavior.
I
commonly use DEBUG to change the -O option to -g so I can build an lsof executable for debugging -- e.g.,

```
$ make DEBUG=-g
```

(Look for DEBUG in this FAQ for other examples of its use.)

Consult the Makefiles to see what CFGL, CFGL, and other lsof Makefile strings contain, and to see what influence their alteration might have on lsof make(1) behavior.

1.9 Is there an lsof license?

No.

The only restriction on the use or redistribution of lsof is contained in this copyright statement, found in every lsof source file. (The copyright year in or format of the notice may vary slightly.)

```
/*
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
```

```
 * any purpose on any
computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
 *
 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

1.10 Language locale support

1.10.1 Does lsof support language locales? How do I use the support?

Most UNIX dialect versions of lsof support 8 bit language
locale characters -- e.g., the ability to print 8 bit
characters that have accents and other marks over them.

See the answer to the "Does lsof support wide characters in
language locales?" question
for information on when lsof's
language locale support covers characters wider than 8 bits.

To see if lsof supports language locales for your dialect, look
in the dialect's machine.h header file for the HASSETLOCALE
definition. If it is present and not disabled, then lsof has
language locale support for the dialect.

To enable lsof's language locale support, you must specify in a
locale environment variable (e.g., LANG) a language locale
known to your system that supports the printing of marked
characters -- e.g, en_US. (On some dialects locale(1) may be
used to list the known language locales.)

Note that LANG=C and LANG=POSIX are NOT language locales that
support the printing of marked characters.

If the language locale doesn't support the printing of marked
characters, lsof's OUTPUT of them follows the rules for

non-printable characters described in the OUTPUT section of
lsof(8).

Consult your dialect's setlocale(3) man page for the names of
environment variables
other than LANG -- e.g., LC_ALL,
LC_TYPE, etc. -- which may be used to define language locales.

1.10.2 Does lsof support wide characters in language locales?

When lsof's language locale support is enabled with the
HASSETLOCALE definition, for selected dialects lsof will also
print wide characters (e.g., from UTF-8) when iswprint(3)
reports them to be printable.

Wide character support is available when HASWIDECHAR is defined
in a dialect's machine.h header file. As of this writing on
July 22, 2004, the following dialect versions have wide character
support:

AIX >= 4.3.2
Apple Darwin >= 7.3.0
FreeBSD >= 5.2
HP-UX >= 11.00
/proc-based Linux
NetBSD >= 1.6
SCO OpenServer >= 5.0.6
Solaris >= 2.6
Tru64 UNIX 5.1

1.11 Are any files in the lsof distribution copyrighted?

Yes. Most files carry the copyright of the Purdue Research
Foundation and may be redistributed under the terms that
accompany the copyright notice. Those
terms may also be found
in the answer to the question, "Is there an lsof license?")

A few files carry other copyright notices. Some are BSD
notices and they explain the terms under which they are
included in the lsof distribution.

Those that carry vendor copyright notices have been reproduced
in their original or modified forms with permission from the
copyright owners. That permission is indicated in the README
files that accompany the files.

1.12 Are there other lsof-related resources?

There are other resources available, connected to lsof. Among them are FreeBSD and Linux packages whose products use lsof and two particularly interesting resources.

The two interesting resources are a Gnome Tool Kit (GTK) GUI for lsof and a Perl wrapper module.

The GTK GUI is called Glsof and was developed by Gnele. It can be found at:

http://www.sourceforge.net

The Perl wrapper module by Marc Beyer can be found at:

http://search.cpan.org/dist/Unix-Lsof/

1.13 What
does the "WARNING: unsupported dialect or version" mean?

The lsof configure script issues that message for UNIX dialects or their versions where I have been unable to test the current revision of lsof. The message doesn't mean that lsof won't work, just that I have no direct evidence that it will.

If the COnfigure script succeeds, except for the warning, try compiling) lsof. If that succeeds, try the lsof test suite.

2.0 Lsof Ports

2.1 What ports exist?

The pub/lsof.README file carries the latest port information:

AIX 5.[23] and 5.3
FreeBSD 4.9 and 6.4 for x86-based systems
FreeBSD 8.[234], 9.0, 10.0 and 11.0 for AMD64-based systems
Linux 2.1.72 and above for x86-based systems
Solaris 9, 10 and 11

In the above list the only UNIX dialects present are ones for which I test the current lsof revision. Lsof may still support unlisted dialect versions -- e.g., HP-UX 10.20, Solaris 7, etc. -- but I don't have access to systems where I could test
lsof
on them, so I can't claim lsof works on them. If your dialect isn't in the list, you should try building lsof on it anyway.

Lsof version 4 predecessors, versions 2 and 3, may support older version of some dialects. Contact me via e-mail at <abe@purdue.edu> if you're interested in their distributions. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

2.2 What about a new port?

The 00PORTING file in the distribution gives hints on doing a port. I will consider doing a port in exchange for permanent access to a test host. I require permanent access so I can test new lsof revisions, because I will not offer distributions of dialect ports I cannot upgrade and test.

2.2.1 User-contributed Ports

Sometimes I receive contributions of ports of lsof to systems where I can't test future revisions of lsof. Hence, I don't incorporate these contributions into my lsof distribution.

However, I do make descriptions of these contributions available. You can find them in the 00INDEX and README files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Consult the 00INDEX file in the contrib/ directory for a list of the available contributions and consult README there for information on how to obtain them.

2.3 Why isn't there an AT&T SVR4 port?

I haven't produced an AT&T SVR4 port because I haven't seen a UNIX dialect that is strictly limited to the AT&T System V, Release 4 source code. Every one I have seen is a derivative with vendor additions.

The vendor additions are significant to lsof because they affect the internal kernel structures with which lsof does business. While some vendor derivatives of SVR4 are similar, each one I have encounted so far has been different enough from its siblings to require special source code.

If you're interested in an SVR4 version of lsof, here are some existing ports you might consider:

DC/OSx (This obsolete port is only
available upon
special request.)
Reliant UNIX (This obsolete port is only available
upon special request.)
SCO|Caldera UnixWare (This is the most likely choice.)
Solaris

2.4 Why isn't there an SGI IRIX port?

Lsof support for IRIX was terminated at lsof revision 4.36, because it had become increasingly difficult for me to obtain information on the IRIX kernel structures lsof needs to access.

At IRIX 6.5 I decided the obstacles were too large for me to overcome, and I stopped supporting lsof on IRIX. I have sources to the last revision of lsof (4.36) for IRIX, but that version of lsof does not work on IRIX 6.5 and is vulnerable to the standard I/O descriptor attack. (See the "Is lsof vulnerable to the standard I/O descriptor attack?" Q&A for more information.) Contact me to discuss obtaining those sources.

If you wish to pursue the issue, don't contact me, contact SGI. This case was opened with SGI on the subject:

Case ID: 0982584

Category: Unix
Priority: 30-Moderate Impact

Problem Summary:
kernel structure header files needed for continued lsof
support

Problem Description:
Email In 07/17/98 19:09:23

2.5 Why does lsof's Configure script report "WARNING: unsupported dialect or version"?

Lsof's Configure script issues this message when it encounters a dialect or its version that lsof once supported, but no longer does. Usually I drop support for a dialect or version when I can no longer test lsof on it.

However, it's worth trying to compile and use lsof. Be sure to

run the test suite. (See the answer to the "Is there a test suite? question for information on the test suite.)

If you have problems with an unsupported dialect or version, contact me via e-mail at <abe@purdue.edu> and I may be able to help. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

3.0 Lsof Problems

3.1 Configuration Problems

3.1.1 Why can't Configure determine the UNIX dialect version?

The lsof Configure script uses UNIX shell commands, often in a command pipeline, to determine the UNIX dialect version. (Consult the dialect stanza in Configure to determine which commands are used.) If Configure can't determine the dialect version, probably one of the commands is not behaving as Configure expects.

Symptoms of the failure include Configure warning messages and incorrect version definitions in the Makefile CFLAGS.

If you suspect that the lsof Configure script is failing to determine the dialect version correctly, try running the commands from Configure stanza one at a time. That will usually reveal the source of the problem. Be particularly mindful that the PATH environment variable can cause commands to be executed from non-standard directories.

If you can't determine the source of the problem, there is a work-around. You can supply the UNIX dialect version in the LSOF_VSTR environment variable. Use Configure as a guide to forming what it expects in LSOF_VSTR. There is also some information on LSOF_VSTR in the 00XCONFIG documentation file of the lsof distribution.

3.2 Compilation Problems

3.2.1 Why does the compiler complain about missing header files?

When you use make to build lsof, the compiler may complain that it can't find header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-DAIXA=0 -DAIXV=4330 \
-DLSOF_VSTR=\"4.3.3.0\"")
gcc  -DAIXA=0 -DAIXV=4330 -DLSOF_VSTR="4.3.3.0" -O \
-c ckkv.c
In file included from ckkv.c:33: ../machine.h:70: \
sys/types.h: A file or directory in the path name \
does not exist. \

 That type of complaint doesn't represent an lsof problem.
 It represents a problem with a missing system header file
 that probably should be found in /usr/include or in the
 system source tree.

 As a first step try using find(1) to locate the problem
 header file.  If
it's a system header file and can't be
 found, here are some possible causes:

1. The file set, RPM or package containing the header files
   has not been installed.  Instructions for doing that
   are specific to the UNIX dialect and beyond the scope
   of this document.

2. If the compiler is gcc, the private gcc header files:

   * May not have been installed;

   * May have been installed incorrectly;

   * May not have been updated properly after the last
     compiler or system update;

   * Ones from a previous installation may not have been
     removed.

   A path leading to the gcc private header files can be
   found with `gcc -v`.  Consult the gcc documentation for
   instructions on proper installation of the private gcc
   header files.

3. On some dialects -- e.g., FreeBSD, NetBSD, OpenBSD --
   lsof may need to use header files that are located in
   the system source tree -- /sys or /usr/src/sys, for
   example.  Make sure the system source tree
has been
   installed.
```

3.2.2 Why does gcc complain about the contents of header files distributed by the system's vendor?

When you use make to build lsof and gcc to compile it, gcc may complain that it finds errors in system header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-Dsolaris=80000 \
 -DHASPR_GWINDOWS -m64 -DHASIPv6 -DHAS_VSOCK \
 -DLSOF_VSTR=\"5.8\"")
 gcc -Dsolaris=80000  -DHASPR_GWINDOWS -m64 -DHASIPv6 \
 -DHAS_VSOCK -DLSOF_VSTR="5.8"  -O  -c  dvch.c
In file included from /usr/include/sys/proc.h:31, \
      from /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/ \
 3.2.1/include/sys/user.h:267, from /usr/include/kvm.h:13, \
 from ../dlsof.h:53, from ../lsof.h:172, from dvch.c:43: \
 /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/\
  3.2.1/include/sys/task.h:59: parse error before "uint_t"
```

Errors like the above are most likely not problems in the system's header files, but in the private copies of them that were created when gcc was made or installed. Note the presense of ".../gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/3.2.1/include/..." in the paths for user.h and task.h. It indicates both header files are gcc-specific.

To solve errors like this requires comparing the header files in the vendor's /usr/include tree to the gcc-specific ones in gcc's private gcc-lib/.../include tree. It may be necessary to regenerate gcc-specific header files, correct them or remove them. See the gcc distribution for the appropriate tools.

A possible temporary work-around is to direct gcc to use the vendor's header files instead of its temporary ones by declaring -I/usr/include in the compilation flags.

3.2.3 Other header file problems

Don't overlook any vendor tools that might validate the vendor header files installed on the system -- e.g., the Solaris pkgchk tool can be used to check the header files that were installed from the SUNWhea package.

For

other header file problems contact me at <abe@purdue.edu>.
Please follow the reporting guidelines in the "How do I
report an lsof bug?" section of this FAQ.

3.3 Why doesn't lsof report full path names?

Lsof reports the full path name when it is specified as a
search argument for open files that match the argument.
However, if the argument is a file system mounted-on
directory, and lsof finds additional path name components
from the kernel name cache, it will report them.

Lsof reports path name for file system types that have path
name lookup features -- e.g., some versions of AdvFS for
Digital and Tru64 UNIX. The Linux /proc-based lsof reports
full path names, because the Linux /proc file system provides
them. Lsof on recent builds of Solaris 10 also report full
path names, because those Solaris kernels record the full path
name in the vnode structure.

Otherwise, lsof uses the kernel name cache, where it exists
and can be accessed, and reports some or
all path name
components (e.g., the sys and proc.h components of
/usr/include/sys/proc.h) for these dialects:

Apple Darwin
DC/OSx
FreeBSD
HP-UX, /dev/kmem and PSTAT based
Linux, /dev/kmem-based
NetBSD
NEXTSTEP
OpenBSD
OPENSTEP
Reliant UNIX
SCO OpenServer
SCO|Caldera UnixWare
Solaris 2.x, 7, 8 and 9 (except for some VxFS versions;
see the "Why doesn't Solaris
lsof report VxFS path name
components?" section for more
information)
Solaris 10 (early builds) Tru64 UNIX

As far as I can determine, AFS path lookups don't share in
kernel name cache operations, so lsof can't identify open AFS
path name components. Apparently Solaris VxFS versions 4 and

above don't share in kernel name cache operations, either, so lsof can't display path name components for those open files.

Since the size of the kernel name cache is limited and the cache is in constant flux, it does not always contain the names of all components in an open file's path; sometimes it contains none of them.

Lsof reports the file system directory name and whatever components of the file's path it finds in the cache, starting with the last component and working backwards through the directories that contain it. If lsof finds no path components, lsof reports the file system device name instead.

When lsof does report some path components in the NAME column, it prefixes them with the file system directory name, followed by " -- ", followed by the components -- e.g., /usr -- sys/path.h for /usr/include/sys/path.h. The " -- " is omitted when lsof finds all the path name components of a file's name.

The PSTAT-based HP-UX lsof relies on kernel name cache contents, too, even though its information comes to lsof via pstat() function calls. Consequently, PSTAT-based HP-UX lsof won't always report full paths, but may use the " -- " partial path name notation, or may occasionally report no path name at all but just the file system mounted-on directory and device names.

Lsof can't obtain path name components from the kernel name caches of the following dialects:

AIX

Only the Linux kernel records full path names in the structures it maintains about open files; instead, most kernels convert path names to device and node number doublets and use them for subsequent file references once files have been opened.

To convert the device and node number doublet into a complete path name, lsof would have to start at the root node (root directory) of the file system on which the node resides, and search every branch for the node, building possible path names along the way. That would be a time consuming operation and require access to the raw disk

device (usually implying setuid-root permission).

If the prospect of all that local disk activity doesn't
concern you, think about the cost when the device is
NFS-mounted.

Try using the file system mount point and node number lsof
reports as parameters to find
-- e.g.,

```
$ find <mount_point> -inum <node_number> -print
```

and you may get an appreciation of what a file system
directory tree search would cost.

3.3.1 Why do lsof -r reports show different path names?

When you run lsof with its repeat (``-r'') option, you may
notice that the extent to which it reports path names for
the same files may vary from cycle to cycle. That happens
because other processes are making kernel calls affecting
the cache and causing entries to be removed from and added
to it.

3.3.2 Why does lsof report the wrong path names?

Under some circumstances lsof may report an incorrect path
name component, especially for files in a rapidly changing
directory like /tmp.

In a rapidly changing directory, like /tmp, if the kernel
doesn't clear the cache entry when it removes a file, a
new file may be given the same keys and lead lsof to believe
that the old cache entry with the same keys belongs to the
new file.

Lsof tries to avoid this error by
purging duplicate entries
from its copy of the kernel name cache when they have the
same device and inode number, but different names.

This error is less likely to occur in UNIX dialects where the
keys to the name cache are node address and possibly a
capability ID. The Apple Darwin, Digital UNIX, FreeBSD, HP-UX,
NEXTSTEP, OPENSTEP, Solaris, Tru64 UNIX, and UnixWare dialects
use node address. Apple Darwin, FreeBSD, NetBSD, OpenBSD,
Tru64 UNIX, and also use a capability ID to further identify
name cache entries.

3.3.3 Why doesn't lsof report path names for unlinked (rm'd) files?

When lsof gets path name components from the kernel's name cache, it does not report the path names of a file that has been unlinked from its parent directory -- e.g., deleted via rm, or the unlink() system call -- even when some process may still hold the file open; lsof reports only the file system's mounted-on directory and device. That's because path name components are removed from the kernel name cache when the file is unlinked.

Unlinked open files are sometimes used by applications for temporary, but invisible storage (i.e., ls won't show them, and no other process can open them.) However, they may occasionally consume disk space to excess and cause concern for a system administrator, who will be unable to locate them with find, ls, du, or other tools that rely on finding files by examining the directory tree.

By using lsof's +L option you can see the link count of open files -- in the NLINK column. An unlinked file will have an NLINK value of zero. By using the option +L1 you can tell lsof to display only files whose link count is less than one (i.e., zero).

There are some UNIX dialect-specific exceptions to lsof's inability to report unlinked path names. They are described in the answer to the "When will lsof report path names for deleted files?" question.

3.3.4 Why doesn't lsof report the "correct" hard linked file path name?

When lsof reports a rightmost path name component for a file with hard links, the component may come from the kernel's name cache. Since the key which connects an open file to the kernel name cache may be the same for each differently named hard link, lsof may report only one name for all open hard-linked files. Sometimes that will be "correct" in the eye of the beholder; sometimes it will not. Remember, the file identification keys significant to the kernel are the device and node numbers, and they're the same for all the hard linked names.

3.3.5 When will lsof report path names for deleted files?

Lsof will report path names for deleted files for two
dialects: Linux and later builds of Solaris 10.

Deleted Linux path names are reported by default and have
"(deleted)" at their ends.

The display of Solaris 10 deleted path names may be selected
with the -X option. When selected they are also reported with
"(deleted)" at their ends.

3.4 Why is lsof so slow?

Lsof may
appear to be slow if network address to host name
resolution is slow. This can happen, for example, when the
name server is unreachable, or when a Solaris PPP cache daemon
is malfunctioning.

To see if name lookup is causing lsof to be slow, turn it off
with the ``-n" option.

Port service name lookup or portmap registration lookup may
also be causes of slow-down. To suppress port service name
lookup, specify the ``-P" option.

Lsof doesn't usually make direct portmap calls -- only when +M
is specified, or when HASPMAPENABLED is defined during lsof
construction. (The lsof help panel, produced with `lsof -h`
will display the default portmap registration reporting
state.) The quickest first step in checking if lsof is slow
because of the portmapper is to use lsof's ``-M" option.

Lsof may be slow if UID to login name lookups are slow.
Suppress them with ``-l".

On dialects where lsof uses the kernel name cache, try
disabling its use with ``-C". (You can tell if
lsof uses the
kernel name cache by looking for ``-C" in lsof's ``-h"
output.) Of course, disabling kernel name cache use will mean
that lsof won't report full or partial path names, just file
system and character device names.

If you're just interested in the open files of one process, try
using the ``-p <Process-ID>" option to limit lsof to that
process. (The ``-p" option may also be followed with a list
of Process-IDs.)

If you're interested in including or excluding certain
commands, try lsof's "-c[^]cmd" option.

If you're interested in certain Internet TCP and UDP states
(e.g., ESTABLISHED) or in excluding some (e.g., CLOSE_WAIT),
try lsof's "-s p:s" option, available where shown on the lsof
help output, obtained with -h or -?. More information on it
may be found in the answer to the "How are protocol state name
exclusion and inclusion used?" question.

Your UNIX dialect may not support "-s p:s" and its associated
performance improvments to Internet-only
file processing. You
can find more information on those topics in the answer to the
"Why doesn't my dialect support state name exclusion and
inclusion?" question.

Older AIX lsof may be slow to start because of its oslevel
identity comparison. (Newer AIX lsof uses uname(2).) See the
"Why does AIX lsof start so slowly?" and "Why does lsof warn
"compiled for x ... y; this is z.?" sections for more
information.

3.5 Why doesn't lsof's setgid or setuid permission work?

If you install lsof on an NFS file system that has been
mounted with the nosuid option, lsof may not be able to
use the setgid or setuid permission you give it, complaining
it can't open the kernel memory device -- e.g., /dev/kmem.

The only solution is to install lsof on a file system that
doesn't inhibit setgid or setuid permission.

3.6 Does lsof have security problems?

I don't think so. However, lsof does usually start with
setgid permission, and sometimes with setuid-root permission.
Any program
that has setgid or setuid-root permission,
should always be regarded with suspicion.

Lsof drops setgid power, holding it only while it opens
access to kernel memory devices (e.g., /dev/kmem, /dev/mem,
/dev/swap). That allows lsof to bypass the weaker security
of access(2) in favor of the stronger checks the kernel
makes when it examines the right of the lsof process to
open files declared with -k and -m. Lsof also restricts

some device cache file naming options when it senses the process has setuid-root power.

On a few dialects lsof requires setuid-root permission during its full execution in order to access files in the /proc file system. These dialects include:

DC/OSx 1.1 for Pyramid systems
Reliant UNIX 5.4[34] for Pyramid systems

When lsof runs with setuid-root permission it severely restricts all file accesses it might be asked to make with its options.

The device cache file (typically .lsof_hostname in the home directory of the real user ID that executes lsof) has 0600 modes. (The suffix, hostname, is the first component of the host's name returned by gethostname(2).) However, even when lsof runs setuid-root, it makes sure the file's ownerships are changed to that of the real user and group. In addition, lsof checks the file carefully before using it (See the question "How do I disable the device cache file feature or alter it's behavior?" for a description of the checks.); discards the file if it fails the scrutiny; complains about the condition of the file; then rebuilds the file.

See the 00DCACHE file of the lsof distribution for more information about device cache file handling and the risks associated with the file.

3.7 Will lsof show remote hosts using files via NFS?

No. Remember, lsof displays open files for the processes of the host on which it runs. If the host on which lsof is running is an NFS server, the remote NFS client processes that are accessing files on the server leave no process records on the server for lsof to examine.

3.8 Why doesn't lsof report locks held on NFS files?

Generally lock information held by local processes on remote NFS files is not recorded by the UNIX dialect kernel. Hence, lsof can't report it.

One exception is some patch levels of Solaris 2.3, and all

versions of Solaris 2.4 and above. Lsof for those dialects does report on locks held by local processes on remotely mounted NFS files.

3.8.1 Why does lsof report a one byte lock on byte zero as a full file lock?

When a process has a lock of length one, starting at byte zero, lsof can't distinguish it from a full file lock. That's because most UNIX dialects represent both locks the same way in their file lock (flock or eflock) structures.

3.9 Why does lsof report different values for open files on the same file system (the automounter phenomenon)?

On UNIX dialects where file systems may be mounted by an automounter with the ``direct'' type, lsof may sometimes report difference
DEVICE, SIZE/OFF, INODE and NAME values
when asked to report files open on the file system.

This happens because some files open on the file system -- e.g., the current directory of a shell that changed its directory to the file system as the file system's first reference -- may be characterized in the kernel with temporary automounter node information. The cd doesn't cause the file system to be mounted.

A subsequent reference to the file system -- e.g., an ls of any place in it -- will cause the file system to be mounted. Processes with files open to the mounted file system are characterized in the kernel with data that reflects the mounted file system's parameters.

Unfortunately some kernels (e.g., some versions of Solaris 2.x) don't revisit the process that did only a change-directory for the purpose of updating the data associated with the open directory file. The file continues to be characterized with temporary automounter information until it does another
directory change, even a trivial ``cd .''.

Lsof will report on both reference types, when supplied the file system name as an argument, but the data lsof reports will reflect what it finds in the kernel. For the different types lsof will display different data, including different major and minor device numbers in the DEVICE column, different lengths in the SIZE/OFF column, different

node numbers in the INODE column, and slightly different
file system names in the NAME column.

In contrast, fuser, where available, can only report on
one reference type when supplied the file system name as
an argument. Usually it will report on the one that is
associated with the mounted file system information. If
the only reference type is the temporary automounter one,
fuser will often be silent about it.

3.10 Why don't lsof and netstat output match?

Lsof and netstat output don't match because lsof reports
the network information it finds in open file system objects
--
e.g., socket files -- while netstat often gets its
information from separate kernel tables.

The information available to netstat may describe network
activities never or no longer associated with open files,
but necessary for proper network state machine operation.

For example, a TCP connection in the FIN_WAIT_[12] state
may no longer have an associated open file, because the
connection has been closed at the application layer and is
now being closed at the TCP/IP protocol layer.

3.10.1 Why can't lsof find accesses to some TCP and UDP ports?

Lsof stands for LiSt Open Files. If there is no open file
connected to a TCP or UDP port, lsof won't find it. That's
the most common reason why lsof doesn't find a port netstat
might report open.

One reason I've found on some UNIX dialects is that their
kernels set aside TCP and UDP ports for communicating with
support activities, running in application layer servers
-- the automounter daemons, and the NFS biod and nfsd
daemons
are examples. Netstat may report the ports are in
use, but lsof doesn't.

Another reason is that netstat may also be able to report
a port is open on a particular dialect, because it uses a
source of data different from what lsof uses -- e.g.,
netstat might examine kernel tables or use streams messages
to MIB2, while lsof relies on the information it finds in
open file structures and their descendants.

Sometimes it's possible to search the data netstat and lsof use. For example, on Linux /proc/tcp and /proc/udp can be examined. There might an entry there for a particular protocol and port, but if the line on which the port appears doesn't have an inode number that matches an inode number of an open file, lsof won't be able to identify the process using the port.

This is a tough question to which there is no easy answer.

3.11 Why does lsof update the device cache file?

At the end of the lsof output you may see the message:

```
    lsof: WARNING: /Homes/abe/.lsof_vic
was updated.
```

In this message /Homes/abe/.lsof_vic is the path to the private device cache file for login abe. (See 00DCACHE.)

Lsof issues this message when it finds it necessary to recheck the system device directory (e.g., /dev or /devices) and rebuild the device cache file during the open file scan. Lsof may need to do these things it finds that a device directory node has changed, or if it cannot find a device in the cache.

3.12 Why doesn't lsof report state for UDP socket files?

Lsof reports UDP TPI connection state -- TS_IDLE (Idle), TS_BOUND (Bound), etc. -- for some, but not all dialects. TPI state is stream-based TCP/IP information that isn't available in many dialects.

A fairly weak general rule is if netstat(1) reports UDP TPI state, lsof may be able to report it, too. But don't be surprised if lsof fails to report UDP TPI state for your dialect. Other factors influence lsof's ability to report UDP TPI state, including the availability of state number
data in kernel structures, and state number to state name conversion data.

3.13 I am editing a file with vi; why doesn't lsof find the file?

Classic implementations of vi usually don't keep open the file being edited. (Newer ones may do so in order to maintain an

advisory lock.) Instead classic vi opens the file, makes a
temporary copy (usually in /tmp or /usr/tmp), and does its work
in that file. When you save the file being edited from a
classic vi implementation, it reopens and rewrites the file.

During a classic vi session, except for the brief periods when
vi is reading or rewriting the file, lsof won't find an open
reference to the file from the vi process, because there is
none.

3.14 Why doesn't lsof report TCP/TPI window and queue sizes for my dialect?

Lsof only reports TCP/TPI window sizes for Solaris, because
only its netstat reports them. The intent of providing
TCP/TPI information in lsof NAME column output is to make
it easier to match netstat
output to lsof output.

In general lsof only reports queue sizes for both TCP and
UDP (TPI) connections on BSD-derived UNIX dialects, where
both sets of values appear in kernel socket queue structures.
SYSV-derived UNIX dialects whose TCP/IP implementations
are based on streams generally provide only TCP queue sizes,
not UDP (TPI) ones.

While you may find that netstat on some SYSV-derived UNIX
dialects with streams TCP/IP may report UDP (TPI) queue
sizes, you will probably also find that the sizes are always
zero -- netstat supplies a constant zero for UDP (TPI)
queue sizes to make its headers align the same for TCP and
UDP (TPI) connections. Solaris seems to get it right --
i.e., its netstat does not report UDP (TPI) queue sizes.

When in doubt, I chose to avoid reporting UDP (TPI) queue
sizes for UNIX dialects whose netstat-reported values I
knew to be a constant zero or whose origin I couldn't
determine. OSR is a dialect in this category.

3.14.1 Why doesn't lsof report socket options, socket states, and TCP flags and values for my dialect?

The lsof -T argument, 'f', that selects the reporting of socket
options, socket states and TCP flags was implemented at lsof
revision 4.71 for the following UNIX dialects, providing the
indicated information:

AIX 4.3.2 and 5.1 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Apple Darwin 7.2 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Digital UNIX and Tru64 UNIX 4.0
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
FreeBSD 4.9 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
HP-UX 11.00 (/dev/kmem-based lsof)
All socket options and values are reported. No socket states are reported. Only the TF_NODELAY TCP flag and the TF_MSS value are reported.
HP-UX 11.11 and iiiv2 (PSTAT-based lsof)
All socket options and values, and socket states are reported. No TCP flags or values are reported.
Linux
No socket options and values, socket states, or TCP flags and values are reported. The support for "-Tf" could not be added to Linux, because socket options, socket states, and TCP flags and values are not available via the /proc file system.
NetBSD 1.6G and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OpenBSD 3.4 and above
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OPENSTEP 4.2
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
OpenUNIX 8
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

SCO OpenServer Release 5.0.6
All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.
Solaris 2.6, 8 and above
The socket option display is limited to BROADCAST, DEBUG, DGRAM_ERRIND, DONTROUTE and OOBINLINE. Socket values are limited to KEEPALIVE and LINGER. No socket states are reported. The TCP DELACK, NODELAY and SENTFIN flags are reported. The TCP MSS value is

reported.

UnixWare 7.1.[134]

All socket options and values, socket states, and TCP flags and values described in lsof(8) are reported.

3.14.2 Why doesn't lsof report the partial listen queue connection count for my dialect?

The reporting of partial listen queue connections was added to -Tf processing at lsof revision 4.76. Currently it is reported for these dialects:

AIX 4.3.2

This dialect is no longer supported, so no attempt was made to add partial listen queue length support for it.

AIX 5.1 and above

Partial listen queue information is available.

Apple Darwin 7.2 and above

Partial listen queue information is available.

Digital UNIX 4.0

This dialect is no longer supported, so no attempt was made to add partial listen queue length support for it.

FreeBSD 4.9 and above

Partial listen queue information is available.

HP-UX 11.00 (/dev/kmem-based lsof)

No partial listen queue information is available.

HP-UX 11.11 and iiiv2 (PSTAT-based lsof)

No partial listen queue information is available.

Linux

No partial listen queue information is available.

NetBSD 1.6G and above

Partial listen queue information is available.

OpenBSD 3.4 and above

Partial listen queue information is available.

OPENSTEP 4.2

Partial listen queue information is available.

OpenUNIX 8

This dialect is no longer supported, so no attempt was made to add partial listen queue length support for it.

SCO OpenServer Release 5.0.6

No partial listen queue information is available.

Solaris 2.6, 8 and above

Partial listen queue information is available.

Tru64 UNIX 5.0
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
Tru64 UNIX 5.1
Partial listen queue information is available.
UnixWare 7.1.[134]
Partial listen queue information is available.

3.15 What does "no more information" in the NAME column mean?

When lsof can find no successor structures -- a gnode,
inode, socket, or vnode -- connected to the file structure
of an open descriptor of a process, it reports "no more
information" in the NAME column. The TYPE, DEVICE, SIZE/OFF,
and INODE columns will be blank.

Because the file structure is supposed to contain a pointer
to the next structure of a file's processing support, if
the pointer is NUL, lsof can go no further.

Some UNIX dialects have file structures for system processes
-- e.g., the sched process -- that have no successor
structure
pointers. The "no more information" NAME will
commonly appear for these processes in lsof output.

It may also be the case that lsof has read the file structure
while it is being assembled and before a successor structure
pointer value has been set. The "no more information" NAME
will again result.

Unless lsof output is filled with "no more information"
NAME column messages, the appearance of a few should be no
cause for alarm.

3.16 Why doesn't lsof find a process that ps finds?

If lsof fails to display open files for a process that ps
indicates exists, there may be several reasons for the
difference.

The process may be a "zombie" for which ps displays the
"(defunct)" state. In that case, the process has exited
and has no open file information lsof can display. It does
still have a process structure, sufficient for the needs
of ps.

Another possible explanation is that kernel tables and
structures may have been changing when lsof looked for the
process,
making lsof unable to find all relevant process
structures. Try repeating the lsof request.

3.17 Why doesn't -V report a search failure?

The usual reason that -V won't report a search failure is
that lsof located the search item, but was prevented from
listing it by an option that doesn't participate in search
failure reporting.

For example, this lsof invocation:

```
$ lsof -V -i TCP@foobar -a -d 999
```

won't report it can't find the Internet address TCP@foobar,
even if there is an open file connected to that address,
unless the open file also has a file descriptor number of
999 (the ``-a -d 999'' options).

Compile-time options can also affect -V results in much the
same way. For example, if HASSECURITY and HASNOSOCKSECURITY
are defined at compile time, this lsof invocation, run by a
non-root user:

```
$ lsof -V -c inetd
```

won't report that it can't find the inetd command, even if
there is a process running the inetd command, because the
HASSECURITY and HASNOSOCKSECURITY
options prevent the
listing of all but the socket files of another user, and
no socket file selector (e.g., "-i") was specified.

3.18 Portmap problems

3.18.1 Why isn't a name displayed for the portmap registration?

When portmap registration reporting is enabled, any time
there is a registration for a local TCP or UDP port, lsof
displays it in square brackets, following the port number
or service name -- e.g., ``:1234[name]'' or ``:name[100083]''.

The TCP or UDP port number or service number (what follows

the `:') is displayed under the control of the lsof -P
option. The registration identity is held by the portmapper
and may be a name or a number, depending on how the
registration's owner declared it. Lsof reports what the
port map holds and cannot derive a registration name from
a registration number.

Lsof can be compiled with registration reporting enabled
or disabled by default, under the control of the HASPMAPENABLED
#define (usually in machine.h).
The lsof help panel (`lsof
-h`) will show the default. Lsof is distributed with
reporting disabled by default.

3.18.2 How can I display only portmap registrations?

Lsof doesn't have an option that will display only TCP or
UDP ports with portmap registrations. The +M option only
enables the reporting of registration information when
Internet socket files are displayed; +M doesn't select
the displaying of Internet socket files -- the -i option
does that.

This simple lsof pipe to grep will do the job:

```
$ lsof -i +M | grep "\["
```

This works because -i selects Internet socket files, +M
enables portmap registration reporting, and only output
lines with opening square brackets will have registrations.

When portmap registration reporting is enabled by default,
because the lsof builder constructed it that way, +M is
not necessary. (The lsof help panel, produced with `lsof
-h` will display the default portmapper registration
reporting state.) However, specifying
+M when reporting
is already enabled is acceptable, as is specifying -M when
reporting is already disabled.

Digression: lsof will accept `+' or `-' as a prefix to most
options. (That isn't documented in the man page or help
panel to reduce confusion and complexity.) The -i option
is as acceptable as +i, so the above example could be
written a little more tersely as:

```
$ lsof +Mi | grep "\["
```

But be careful to use the ``Mi'' ordering, since ``iM''
implies M is an address argument to `i'.

3.18.3 Why doesn't lsof report portmap registrations for some ports?

Lsof reports portmap registrations for local TCP and UDP
ports only. It identifies local ports this way:

* The port appears in the local address section of the
  kernel structure that contains it.

* The port appears in the foreign address section of a
  kernel structure whose local and foreign Internet
  addresses are the same.

* The port appears in the foreign address section of a
  kernel address structure
whose Internet address is
  INADDR_LOOPBACK (127.0.0.1).

Following these rules, lsof ignores foreign portmapped
ports. That's done for reasons of efficiency and possible
security prohibitions. Contacting all remote portmappers
could take a long time and be blocked by network difficulties
(i.e., be inefficient). Many firewalls block portmapper
access for security reasons.

Lsof may occasionally ignore portmap registration information
for a legitimate local port by virtue of its local port
rules. This can happen when a port appears in the foreign
part of its kernel structure and the local and foreign
Internet addresses don't match (perhaps because they're on
different interfaces), and the foreign Internet address
isn't INADDR_LOOPBACK (127.0.0.1).

3.18.4 Why doesn't lsof report portmap registrations for some Solaris versions?

In some versions of Solaris -- 9 and 10 are known to exhibit
this problem -- lsof is unable to display portmap registrations.

This
portmap registration reporting failure occurs when the
Solaris netconfig field (in /etc or etc/inet) has its first two
non-comment lines enabling tcp6 and udp6. When netconfig is
configured in that fashion, lsof's attempt to read the portmap
via an RPC function fails.

I don't have an explanation for the failure, but this comment in the netconfig(4) man page appears to have some bearing on the problem:

```
# The following two entries starting with udp6 and tcp6 are
# meant to be used for IPv6. If you have Ipv6 enabled on your
# machine then you can uncomment these two lines to enable
# RPC and NFS to use the Ipv6 stack.
...
#udp6  tpi_clts      v  inet6  udp  /dev/udp6  -
#tcp6  tpi_cots_ord  v  inet6  tcp  /dev/tcp6  - "
```

My interpretation of that comment is that there is a different RPC interface to the portmap when IPv6 is enabled. However, I can't find any documentation on it in the RPC man pages. If anyone has information on it, please send it to me at <abe@purdue> and put "lsof Solaris portmap" in the subject line.

A work-around may be to move the ucp6 and tcp6 lines after the udp and tcxp lines in netconfig. I don't know if that change has any unacceptable consequences, but it works for me on my Solaris 9 test system, and I have a report that it also works on Solaris 10.

3.19 Why is `lsof | wc` bigger than my system's open file limit?

There is a strong temptation to count open files by piping lsof output to wc. If your purpose is to compare the number you get to some Unix system parameter that defines the number of open files your system can have, resist the temptation.

One reason is that lsof reports a number of "files" that don't occupy Unix file table space -- current working directories, root directories, jail directories, text files, library files, memory mapped files are some. Another reason is that lsof can report a file shared by more than one process that itself occupies only one file table slot.

If you want to know the number of open files that occupy file table slots, use the +ff option and process the lsof output's FILE_ADDR column information with standard Unix tools like cut, grep, sed, and sort.

You might also consider using use lsof's field output with +ff, selecting the file struct address with -FF, and processing the output with an AWK or Perl script. See the list_fields.awk, list_fields.perl, and shared.perl5 scripts in the scripts/ subdirectory of the lsof distribution for hints on file struct post-processing filters.

3.20 Why doesn't lsof report file offset (position)?

Lsof won't report a file offset (position) value if the -s option (without parameters) has been specified, or if the dialect doesn't support the displaying of file offset (position). (Note that on selected dialects the help output, obtained with -h or -?, may show that the -s option can also be supplied the "p:s" parameters; for more information on that addition,
see the answer to the "How are protocol state name exclusion and inclusion used?" question.)

That lsof is reporting only file size is indicated by the fact that the appropriate column header says SIZE instead of SIZE/OFF.

If lsof doesn't support the displaying of file offset (position) -- e.g., for Linux /proc-based lsof -- the -h or -? output panel won't list the -o option.

Sometimes the availability of file offset information depends on the dialect's kernel. This is particularly true for socket file offsets.

Maintenance of offsets for pseudo-terminal devices varies by UNIX dialect and is related to how the dialect kernel implements pseudo-terminal support. Kernels like AIX, for example, that short-circuit the transfer of data between socket and pseudo devices to reduce TCP/IP daemon interrupt rates won't advance offsets in the TCP/IP daemon socket files. Instead they will advance offsets in the open standard I/O files of the shell child precess where the pseudo-terminal
devices are used.

When in doubt about the behavior of lsof in reporting file offset information, do some carefully measured experiments, consult the lsof sources, or contact me at <abe@purdue.edu> to discuss the matter. Please follow the reporting guidelines in the "How do I report an lsof bug?" section of this FAQ.

3.20.1 What does lsof report for size when the file doesn't really have one?

When a file has no true size -- e.g., it's a socket, a FIFO, or a pipe -- lsof tries to report the information it finds in the kernel that describes the contents of associated kernel buffers.

Thus, for example, size for most TCP/IP files is socket buffer size. The size of the socket read buffer is reported for read-only files; the size of the write buffer for write-only files; and the sum of the buffers sizes for read-write files.

3.21 Problems with path name arguments

3.21.1 How do I ask lsof to search a file system?

You can ask lsof to search for all open files on a file system by specifying its mounted path name as an lsof argument -- e.g.,

```
$ lsof /
```

Output of the mount command will show file system mounted path names. It will also show the mounted-on device path for the file system.

If the mounted-on device is a block device (the permission field in output of `ls -l <device>` starts with a `b/), you can specify it's name, too -- e.g.,

```
$ lsof /dev/sd0a
```

If the mounted-on device isn't a block device -- for example, some UNIX dialects call a CD-ROM device a character device (ls output starts with a `c') -- you can force lsof to assume that the specified device names a file system with the +f option -- e.g.,

```
$ lsof +f -- /dev/sd0a
```

(Note: you must use ``--" after +f or -f if a file name follows immediately, because +f and -f can be followed by characters that specify flag output selections.)

When you use +f and lsof can't match the device to a file

system, lsof will issue a complaint.

The +f option
may be used in some dialects to ask lsof to
search for an NFS file system by its server name and server
mount point. If the mount application reports an NFS file
system mounted-on value that way, then this sample lsof
request should work.

```
$ lsof +f -- fleet:/home/fleet/u5
```

Finally, you can use -f if you don't want a mounted file
system path name to be considered a request to report all
open files on the file system. This is useful when you
want to know if anyone is using the file system's mounted
path name. This example directs lsof to report on open
access to the `/' directory, including when it's being used
as a current working or root directory.

```
$ lsof -f -- /
```

The lsof -f option performs the same function as -f does
in some fuser implementations. However, since the lsof -c
option was chosen for another purpose before the `f' option
was added to lsof, +f was selected as the analogue to the
fuser -c option. (Sorry for the potential confusion.)

3.21.2 Why
doesn't lsof find all the open files in a file system?

Lsof may not find all the open files in a file system for
several reasons.

First, some processes with files open on the file system
may have been changing status when lsof examined the process
table, and lsof "missed" them. Remember, the kernel changes
much faster than lsof can respond to the changes.

Second, be sure you have specified the file system correctly.
Perhaps you specified a file instead. You can use lsof's
-V option to have lsof report in detail on what it couldn't
find. Make sure the report for the file system you specified
says "file system." Here's some -V output:

```
$ /lsof -V /tmp ./lsof.h ./lsof
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
lsof    2688  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof    2689  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
```

```
lsof: no file use located: ./lsof.h
```

You can also use lsof's +f option to force it to consider
a
path name as a file system. If lsof can't find a file
system by the specified name, it will issue a complaint --
e.g.,

```
$ lsof +f -- /usr
lsof: not a file system: /usr
```

(/usr is a directory in the / file system.)

3.21.3 Why does the lsof exit code report it didn't find open files when some files were listed?

Sometimes lsof will list some open files, yet return a
non-zero exit code, suggesting it hasn't found all the
specified files.

The first thing you should when you suspect lsof is incorrect
is to repeat the request, adding the -V option. In the
resulting report you may find that your file system
specification really wasn't a file system specification,
just a file specification.

Finally, if you specify two files or two file systems twice,
lsof will credit all matches to the first of the two and
believe that there were no matches for the second. It's
possible to specify a single file system twice with different
path names by using both its mounted
directory path name
and mounted-one device name.

```
$ lsof +f -V spcuna:/sysprog /sysprog
COMMAND   PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
ksh     11092  abe  cwd   VDIR 39,0,1     1536 226562 /sysprog
(spcuna:/sysprog)
...
lsof: no file system use located: spcuna:/sysprog
```

All matches were credited to /sysprog; none to spcuna:/sysprog.

3.21.4 Why won't lsof find all the open files in a directory?

When you give lsof a simple directory path name argument
(not a file system mounted-on name), you are asking it to
search for processes that have the directory open as a

file, or as a process-specific directory -- e.g., root or
current working directory.

If you want to list instances of open files inside the
directory, you need to specify the individual path names
of those files, or use the lsof +D and +d options.

See the answer to the question "Why are the +D and +d
options so slow?" before you use +D or +d casually.

See the answer to
the question "Why do the +D and +d options
produce warning messages?" for an explanation of some
process authority limitations of +D and +d.

3.21.5 Why are the +D and +d options so slow?

The +D and +d options cause lsof to build a path name search
list for a specified directory. +D causes lsof to descend
the directory to its furthest subdirectory, while +d
restricts it to the top level. In both cases, the specified
directory itself is included in the search list. In both
symbolic links are ignored.

Building such a search list can take considerable time,
especially when the specified directory contains many files
and subdirectories -- lsof must call the system readlink()
and stat() functions for each file and directory. Storing
the search list can cause lsof to use more than its normal
amount of dynamic memory -- each file recorded in the search
list consumes dynamic memory for its path name, characteristics,
and search linkages. Using the list means lsof must search
it
for every open file in the system.

Building the search list for a directory specified on some
file systems can be slow -- e.g., for an NFS directory with
many files. Some file systems have special logging features
that can introduce additional delays to the building of
the search list -- e.g., NFS logging, or logging on a
Solaris UFS file system. The bottom line is that slow
search list construction may not be so much an lsof problem
as a file system problem. (Hint: if you're using Solaris
UFS logging, consider specifying the "logging,noatime"
option pair to reduce the number of atime writes to the
UFS logging queue and disk.)

A somewhat risky way to speed up lsof's building of the

search list is to use lsof's ``-O'' option. It forces lsof
to do all system calls needed to build the search list
directly, rather than in a child process. While direct
system calls are much faster, they can block in the kernel
-- e.g., when an NFS server stops responding --
stopping
lsof until the kernel operation unblocks.

As an example of the load +D can impose, consider that an
`lsof +D /` on a lightly loaded NeXT '040 cube with a 1GB
root file system disk took 4+ minutes of real time. It
also generated several hundred error messages about files
and directories the lsof process didn't have permission to
access with stat(2).

The bottom line is that +D and +d should be used cautiously.
+D is more costly than +d for deeply nested directory trees,
because of the full directory descent it causes. So use
+d where possible. And you might need to consider the
performance of the file system that holds the directory
you name with +d or +D.

In view of these warnings, when is it appropriate to use
+D or +d? Probably the most appropriate time is when you
would specify the directory's contents to lsof with a shell
globbing construct -- e.g., `lsof *`. If that's what you
need to do, `lsof +d .` is probably more efficient than
having the shell
produce a directory list, form it into an
argument vector, and pass the vector to lsof for it to
unravel.

See the answer to the question "Why do the +D and +d options
produce warning messages?" for an explanation of some
process authority limitations of +D and +d.

3.21.6 Why do the +D and +d options produce warning messages?

+D and +d option processing is limited by the authority of
the lsof process -- i.e., lsof can only examine (with
lstat(2) and stat(2)) files the owner of the process can
access.

If the ownership, group membership, or permissions of the
specified directory, file within it, or directory within
it prevents the owner of the lsof process from using lstat(2)
or stat(2) on it, lsof will issue a warning message, naming
the path and giving the system's (lstat(2's or stat(2)'s)

reason (errno explanation text) for refusing access.

As an example, assume user abc has a subdirectory in /tmp,
owned by abc and readable, writable and searchable by only
its
owner. If user def asks lsof to search for all /tmp
references with +D or +d, lsof will be unable to lstat(2)
or stat(2) anything in abc's private subdirectory, and will
issue an appropriate warning.

Lsof warnings can usually be suppressed with the -w option.
However, using -w with +D or +d means that there will be
no indication why lsof couldn't find an open reference to
a restricted directory or something contained in it.

Hint: if you need to use +D or +d and avoid authority
warnings, and if you have super-user power, su and use lsof
with +D or +d as root.

3.22 Why can't my C compiler find the rpcent structure definition?

When you try to compile lsof your compiler may complain
that the rpcent structure is undefined. The complaints
may look like this:

```
>print.c: In function `fill_portmap':
>print.c:213: dereferencing pointer to incomplete type
>...
```

The most likely cause is that someone has allowed a BIND
installation to update /usr/include/netdb.h
(or perhaps
/usr/include/rpc/netdb.h), removing the rpcent structure
definition that lsof expects to find there.

Only Solaris has an automatic work-around. (See dlsof.h
in dialects/sun.). The Solaris work-around succeeds because
there is another header file, <rpc/rpcent.h>, with the rpcent
structure definition, and there is a Solaris C pre-processor
test that can tell when the BIND <netdb.h> is in place and
hence <rpc/rpcent.h> must be included.

Doubtlessly there are similar work-arounds possible in
other UNIX dialects whose header files have been "touched"
by BIND, but in general I recommend restoration of the
vendor's <netdb.h> and any other header files BIND might
have replaced. (I think BIND replaces <resolv.h>,
<sys/bitypes.h>, <sys/cdefs.h> -- and maybe others.)

3.23 Why doesn't lsof report fully on file "foo" on UNIX dialect "bar?"

Lsof sometimes won't report much information on a given file, or may even report an error message in its NAME column. That's usually because the file is of a special type -- e.g., in a file system specific to the UNIX dialect -- and I haven't used a system where the file appeared during my testing.

If you encounter such a situation, send me e-mail at <abe@purdue.edu> and we may be able to devise an addition to lsof that will report on the file in question. Please follow the reporting guidelines in the "How do I report an lsof bug?" section of this FAQ. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

3.24 Why do I get a complaint when I execute lsof that some library file can't be found?

On systems where the LIBPATH (or the equivalent) environment variable is used to record the library search path in executable files when they are built, an incorrect value may make it impossible for the system to find the shared libraries needed to load lsof for execution.

This may be particularly true on systems like AIX >= 4.1.4, where the lsof Makefile takes the precautionary step of using the -bnolibpath loader flag to insure that the path to the private static lsof library is not recorded in the lsof binary. Should LIBPATH be invalid when lsof is built, it will be recorded in the lsof binary as the default library path search order and lead to an inability to find libraries when lsof is executed.

So, if you get missing library complaints when you try to execute lsof, check LIBPATH, or whatever environment variable is used on your system to define library search order in executable files. Use the tools at your disposal to look at the library paths recorded in the lsof binary -- e.g., chatr on HP-UX, dump on AIX, ldd on Solaris.

Make sure, too, that when the correct library search path has been recorded in the executable file, the required

library files exist at one or more of the search paths.

3.25 Why does lsof complain it can't open files?

When lsof begins execution, unless it has been asked to report
only help or version information, typically it will
attempt to access kernel memory and symbol files -- e.g.,
/unix, /dev/kmem. Even though lsof needs only permission
to open these files for reading, read access to them might
be restricted by ownerships and permission modes.

So the first step to diagnosing lsof problems with opening
files is to use ls(1) to examine the ownerships and permission
modes of the files that lsof wants to open. You may find
that lsof needs to be installed with some type of special
ownership or permission modes to enable it to open the
necessary files for reading. See the "Installing Lsof"
section of 00README for more information.

3.26 Why does lsof warn "compiled for x ... y; this is z."?

Unless warnings are suppressed (with -w) or the kernel
identity check symbol (HASKERNIDCK) definition has been
deleted, all but one lsof dialect version (exception:
/proc-based Linux lsof) compare the identity of the running
kernel to that of the
one for which lsof was constructed.
If the identities don't match, lsof issues a warning like
this:

```
lsof: WARNING: compiled for Solaris release 5.7; this is 5.6.
```

Two kernel identity differences can generate this warning
-- the version number and the release number.

Build and running identity differences are usually significant,
because they usually indicate kernels whose structures are
different -- kernel structures commonly change at dialect
version releases. Since lsof reads data from the kernel
in the form of structures, it is sensitive to changes in
them. The general rule is that an lsof compiled for one
UNIX dialect version will not work correctly when run on
a different version.

There are three work-arounds: 1) use -w to suppress the
warning -- and risk missing other warnings; 2) permanently

disable the identity check by deleting the definition of
HASKERNIDCK in the dialect's machine.h header file -- with
the same risk; or 3) rebuild lsof on the system
where it
is to be run. (Deleting HASKERNIDCK can be done with the
Customize script or by editing machine.h.)

Generally checking kernel identity is a quick operation
for lsof. However, it is potentially slow under AIX, where
lsof must run /usr/bin/oslevel. To speed up lsof, use -w
to suppress the /usr/bin/oslevel test. See "Why does AIX
lsof start so slowly?" for more information.

3.27 How can I disable the kernel identity check?

The kernel identity check is controlled by the HASKERNIDCK
definition. When it is defined, most dialects (exclusion:
/proc-based Linux lsof) will compare the build-time kernel
identity with the run-time one.

To disable the kernel identity check, disable the HASKERNIDCK
definition in the dialect's machine.h header file. The
Customize script can be used to do that in its section
about the kernel identity check.

Caution: while disabling the kernel identity check may
result in smaller lsof startup overhead, it comes with the
risk of
executing an lsof that may produce warning messages,
error messages, incorrect output, or no output at all.

3.28 Why don't ps(1) and lsof agree on the owner of a process?

Generally the user ID lsof reports in its USER column is
the process effective user ID, as found in the process
structure. Sometimes that may not agree with what ps(1)
reports for the same process.

There are sundry reasons for the difference. Sometimes
ps(1) uses a different source for process information,
e.g., the /proc file system or the psinfo structure.
Sometimes the kernel is lax or confused (e.g., Solaris
2.5.1) about what ID to report as the effective user ID.
Sometimes the system carries only one user ID in its process
structure (some BSD derivatives), leaving lsof no choice.

The differences between lsof and ps(1) user identifications
should be small and normally it will be apparent that the

confusion is over a process whose application has changed
to an effective user ID different from
the real one.

3.29 Why doesn't lsof find an open socket file whose connection
state is past CLOSE_WAIT?

TCP/IP connections in states past CLOSE_WAIT -- e.g.,
FIN_WAIT_1, CLOSING, LAST_ACK, FIN_WAIT_2, and TIME_WAIT
-- don't always have open files associated with them. When
they don't, lsof can't identify them. When the connection
state advances from CLOSE_WAIT, sometimes the open file
associated with the connection is deleted.

3.30 Why don't machine.h definitions work when the surrounding
comments are removed?

The machine.h header files in dialect subdirectories have
some commented-out definitions like:

```
/* #define HASSYSDC "/your/choice/of/path */
```

You can't simply remove the comments and expect the definition
to work. That's intended to make you think about what
value you are assigning to the symbol. The assigned value
might have a system-specific convention. HASSYSDC, for
example, might be /var/db/lsof.dc for FreeBSD, but it might
be /var/adm/lsof.dc for
Solaris.

Symbols defined in the lsof documentation are described in
00PORTING, other machine.h comments, and other lsof
documentation files. HASSYSDC, for example, is discussed
in 00DCACHE. When comments and documentation don't suffice,
consult the source code for hints on how the symbol is
used.

3.31 What do "can't read inpcb at 0x...", "no protocol control
block", "no PCB, CANTSENDMORE, CANTRCVMORE", etc. mean?

Sometimes lsof will report "can't read inpcb at 0x00000000",
"no protocol control block", "no PCB, CANTSENDMORE,
CANTRCVMORE" or a similar message in the NAME column for
open TCP socket files. These messages mean the file's socket
structure lacks a pointer to the INternet Protocol Control
Block (inpcb) where lsof expects to find connection addresses
-- local and foreign ports, local and foreign IP addresses.
The socket file has probably been submitted to the shutdown(2)

function for processing.

In some implementations lsof issues the "no PCB, CANTSENDMORE, CANTRCVMORE"
message, which tries to explain the absence
of a protocol control block by showing the socket state
settings that have been made by the shutdown(2) function.

If a non-zero address follows the "0x" in the "can't read
inpcb" message, it means lsof couldn't read inpcb contents
from the indicated address in kernel memory.

3.32 What do the "unknown file system type" warnings mean?

Lsof may report a message similar to"

```
unknown file system type, v_op: 0x10472f10
```

in the NAME column for some files.

This means that lsof has encountered a vnode for the file
whose operation switch address (from v_op) references a
file system type for which there is no support in lsof.
After lsof identifies the file system type, it uses
pre-compiled code to locate the file system specific node
for the file where lsof finds information like file size,
device number, node number, etc.

To get some idea of what the file system type might be,
use nm on your kernel symbol file
to locate the symbol name
that corresponds to the v_op address -- e.g., on Solaris
do:

```
$ nm -x /dev/ksyms | grep 0x10472f10
0x10472f10 ... |file_system_name_vnodeops
```

Where "file_system_name" is the clue to the unsupported
file system.

Lsof doesn't use the v_op address to identify file system
types on all dialects. Sometimes it uses an index number
it finds in the vnode. It will translate that symbol to
a short name in the warning message -- e.g., "nfs3" -- if
possible.

3.33 Installation

3.33.1 How do I install lsof?

There is no "standard" way to install lsof. Too much depends on local conditions for me to be able to provide working install rules in the lsof make files. (The skeleton install rules you will find just give "hints.") See the "Installing Lsof" section of 00README for a fuller explanation.

To install lsof you will need to consider these questions:

* Who should be able to use lsof? (See HASSECURITY and HASNOSOCKSECURITY in the "Security" section of 00README.)

* Where should lsof be installed? This is a decision mostly dictated by local conditions. Somewhere in /usr/local -- etc/ or sbin/ -- is a common choice.

* What permissions should I give the lsof executable? The answer to this varies by dialect. The make files have install rules that give hints. The "Installing Lsof" section of 00README gives information, too.

* What if I want to install lsof in a shared file system for machines that require different lsof configurations? See the next question and answer, "How do I install a common lsof when I have machines that need differently constructed lsof binaries?"

3.33.2 How do I install a common lsof when I have machines that need differently constructed lsof binaries?

A dilemma that faces some system administrators when they install lsof in a shared file system -- e.g., NFS -- is that they must have different lsof executables for different systems.

The answer is to build an lsof wrapper script that is executed in place of lsof. The script can use system commands to determine which lsof binary should be executed.

Consider this example. You have HP-UX machines with 32 and 64 bit kernels that share the /usr/local/sbin directory where you want to install lsof. Consequently, on each system you must use a different lsof executable, built for the system's bit size. (That's because lsof reads kernel structures, sized by the kernel's bit size.)

One answer is to install three things in /usr/local/sbin:
1) a 32 bit lsof as lsof32; 2) a 64 bit lsof as lsof64;
and 3) an lsof script. The script might look like this
one, based on work by Amir J. Katz:

```
  #!/bin/sh
  x=`/usr/bin/getconf KERNEL_BITS`  # returns 32 or 64
  if /usr/bin/test "X$x" = "X32"
  then
    lsof32 $*
  else
    if /usr/bin/test "X$x" = "X64"
    then
lsof64 $*
    else
echo "Can't determine which lsof executable to use;"
echo
"getconf KERNEL_BITS says: $x"
exit 1
    fi
  fi
```

Solaris users should consult "How do I install lsof for
Solaris 7, 8 or 9?" for information on a similar trick
using the Solaris isaexec command.

Users of other dialects might be able to use a command like
uname(1) that can identify a distinguishing feature of the
system to be incorporated in pre-installed lsof executable
names. For example, use `uname -r` and install binaries
with suffixes that match `uname -r` output.

3.34 Why do lsof 4.53 and above reject device cache files built
by earlier lsof revisions?

When lsof revisions 4.53 run and encounter a device cache
file built by an earlier revision, it will reject the file
and build a new one. The rejection will be advertised with
these messages:

```
  lsof: WARNING: no /dev device in <name>: 2 sections
  ...
  lsof: WARNING: created device cache file: <name>
```

This happens because the header line of the device cache
file was changed at revision 4.53

to contain the number of
the device on which the device directory resides. The old
device cache file header line -- the "2 sections" line in
the above warning message, node reads "2 sections, dev=600".

This is not a serious problem, since lsof automatically
rebuilds the device cache file with the correct header
line.

3.35 What do "like block special" and "like character special" mean in the NAME column?

When lsof comes across an open block or character file
whose device, raw device and inode place it somewhere other
than /dev (or /devices), lsof doesn't report the /dev (or
/devices) name in the NAME column. Instead lsof reports
the file system name and device or path name in the NAME
column and parenthetically adds "like block special <path>"
or "like character special <path>".

The value for <path> will point to a block or character
device in /dev (or /devices) whose raw device number matches
that of the open file being reported, but whose device
number or node
number (or both) don't match.

Such an open file is connected to a device node that has
been created in a directory other than /dev (or /devices.)
See mknod(8) for information on how such nodes are created.
(Generally one needs root power to create device nodes with
mknod.)

3.36 Why does an lsof make fail because of undefined symbols?

When lsof is compiled via the `make` step and the final
load step fails because of missing symbols, the problem
may not be lsof. The problem may be that ld, called by
the compiler as part of the `make` step, can't find some
library that lsof needs.

First check the last compiler line of the make operation
-- e.g., the last line with cc or gcc in it before the
undefined symbol report -- for loader arguments, i.e.,
ones beginning with "-l". Except for "-llsof" the rest
name system libraries. ("-L./lib" precedes "-llsof" to
tell the loader its location.)

Check that all the named system libraries exist. Look in

/lib and /usr/lib as a
start, but that may not be the only
place system libraries live. Consult your dialect's
documentation, e.g., the compiler and loader man pages,
for other possible locations.

If some system library doesn't exist, that may mean it was
never installed or was removed. You'll have to re-install
the missing library.

You may find that all the system libraries lsof uses exist.
Your next step might be to use nm and grep to see if any
of them contain the undefined symbols.

```
$ nm library | grep symbol
```

If the undefined symbol exists in some library named by
the lsof make step, then you might have a problem with some
environment variable that controls the load step. The most
common is LD_LIBRARY_PATH. It may have a setting that
causes ld to ignore a directory containing a library lsof
names. If this is the case, try unsetting LD_LIBRARY_PATH
in the environment of the ld process -- e.g., do:

```
$ unset LD_LIBRARY_PATH
```
or
```
% unsetenv LD_LIBRARY_PATH
```

Consult your
ld man page for other environment variables
that might affect library searching -- e.g., LIBPATH, LPATH,
SHLIB_PATH, etc.

If the undefined function doesn't exist in any libraries
lsof names, check other libraries. See if the function
has a man page that names its library. If the latter is
true, please let me know, because that is an lsof problem
I need to fix.

If none of these solutions work for you, send me some
documentation via e-mail at <abe@purdue.edu>. Include `uname
-a` output, the output of the lsof `Configure ...` and `make`
steps, and the contents of the environment in force when the
`make` step was executed -- e.g., `env` or `printenv` output.
If you've located the libraries lsof names, send me that
information, too. Make sure "lsof" appears in the "Subject:"
line so my e-mail filter won't classify your letter as Spam.

3.37 Command Regular Expressions (REs)

3.37.1 What are basic and extended regular expressions?

Lsof's ``-c'' option allows the specification of regular expressions (REs), enclosed in two slash ('/') characters and followed by these modifiers:

b the RE is a basic RE.
i ignore case.
x the RE is an extended RE (the default).

Note: the characters of the regular expression may need to be quoted to prevent their expansion by the shell.

Example: this RE is an extended RE that matches exactly four characters, whose third may be an upper ('O') or lower case ('o') oh:

-c /^..o.$/i

For simplicity's sake, an RE that is acceptable to egrep(1) is usually called an extended RE.

REs suitable for the old line editor, ed(1), are often called basic REs (and sometimes also called obsolete).

These are some ways basic REs usually differ from extended REs. (There are other differences.)

* `|', `+', `?', '{', and '}' are ordinary characters.

* `^' is an ordinary character except at the beginning of the RE.

* `$' is an ordinary character except at the end of the RE.

* `*' is an ordinary character if it appears at the beginning of the RE.

For more information on REs and the distinction between basic and extended REs, consult your dialect's man pages for ed(1), egrep(1), sed(1), and possibly regex(5) or regex(7).

3.37.2 Why can't I put a slash in a command regular expression?

Since a UNIX command name is the last part of a path to
the command's executable, the lsof command regular expression
(RE) syntax uses slash ('/') to mark the beginning and end
of an RE. Slash may not appear in the RE and the `\'
back-slash escape is ineffective for "hiding" it.

More likely than not, if you try to put a slash in an lsof
command RE, you'll get this response:

```
$ lsof -s/.\// ...
lsof: invalid regexp modifier: /
```

Lsof is complaining the the first character it found after
the second slash isn't an lsof command RE modifier -- 'b',
'i', or 'x'.

3.37.3 Why does lsof say my command regular expression wasn't found?

When you use both forms of lsof's
-c option --
``-c <command>" and ``-c /RE/[m]" -- and ask that lsof
do a verbose search (``-V"), you may be surprised that
lsof will say that the regular expression wasn't found.

This can happen if the ``-c <command>" form matches first,
because then the ``-c/RE/[m]" test will never have been
applied. For example:

```
$ ./lsof -clsof -c/^..o.$/ -V -adcwd
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  NODE NAME
lsof    7850  abe  cwd   VDIR    6,0     2048 96442 / (/dev/sd0a)
lsof: no command found for regex: ^..o.$
```

The ``-clsof" option matched first, so the ``-c/^..o.$/
option wasn't tested.

3.38 Why doesn't lsof report on shared memory segments?

Lsof reports on shared memory segments only if they're
associated with an open file. That's consistent with lsof's
mission -- to LiSt Open Files. Shared memory segments with
no file associations aren't open files.

That's not to say that a report on shared memory segments
and their associated processes

wouldn't be useful. But it
calls for a new tool, not more baggage for lsof.

3.39 Why does lsof report two instances of itself?

When you ask lsof to report all open files and it has
permission to do so, you may see two lsof processes in the
output. The processes are connected via pipes -- e.g.,
here's an HP-UX 11 example.

```
COMMAND     PID USER   FD   TYPE     DEVICE ...
...
lsof      29450  abe    7w  PIPE 0x48732408 ...
lsof      29450  abe    8r  PIPE 0x48970808 ...
...
lsof      29451  abe    6r  PIPE 0x48732408 ...
lsof      29451  abe    9w  PIPE 0x48970808 ...
```

The first process will usually be the lsof you initiated;
the second, an lsof child process that is used to isolate
its parent process from kernel functions that can block --
e.g., readlink() or stat().

Information to and from the kernel functions is exchanged
via the two pipes. When the parent process detects that
the child process has become blocked, it attempts to
kill
the child. Depending on the UNIX dialect that may succeed
or fail, but the parent won't be blocked in any event.

See the "BLOCKS AND TIMEOUTS" and "AVOIDING KERNEL BLOCKS"
sections of the lsof man page for more information on why
the child process is used and how you can specify lsof
options to avoid it. (Caution: that may be risky.)

3.40 Why does lsof report '\n' in device cache file error messages?

Lsof revisions prior to 4.58 may report '\n' in error
messages it delivers about problems in the device cache
file -- e.g.,

```
lsof: WARNING: no ...: 4 sections\n
```

That's deliberately done to show the exact contents of the
device cache file line about which lsof is complaining,
including its terminating NL (New Line) '\n' character.
In the above example the line in the device cache file
causing the lsof complaint contains "4 sections" and ends

with a '\n'.

At revision 4.58 and above, device cache error messages
like the one in the above example have been changed
to
read:

    lsof: WARNING: no ...: line "4 sections"

The terminal '\n' is no longer reported, the line contents
are enclosed in double quote marks (""), and the word
"line" has been added as a prefix to denote that what
follows is a line from the device cache file.

3.41 Kernel Symbol and Address Problems

3.41.1 What does "lsof: WARNING: name cache hash size length error: 0" mean?

When run on some systems, lsof may issue this warning:

    lsof: WARNING: name cache hash size length error: 0

That is an example from a FreeBSD system where lsof reads
the kernel's _nchash variable and finds its value is zero.

Similar warnings include:

    WARNING: kernel name cache size:
    WARNING: can't read kernel's name cache:
    WARNING: no name cache address
    WARNING: name cache hash size length error:
    WARNING: unusable name cache size:

These warnings are issued when lsof is attempting to read
the kernel's name cache information. They are usually the
result
of a mis-match between the addresses for kernel
symbols lsof gets via nlist(2) and the addresses in use by
the kernel.

Lsof usually gets kernel symbol addresses from what it
believes to be the kernel boot file. In FreeBSD, for
example, that's the path returned by getbootfile(3), usually
/kernel. The boot file can have other names in other UNIX
dialects -- /unix, /vmunix, /bsd, /netbsd, /mach, /stand/vmunix,
etc.

Lsof will get incorrect (mismatched) addresses from the
boot file if it has been replaced by a newer one which
hasn't yet been booted -- e.g., if this is done in FreeBSD:

```
# mv /kernel /kernel.OLD
# mv /kernel.NEW /kernel
```

Until the FreeBSD system is rebooted, the booted kernel is
/kernel.OLD, but getbootfile() says it is /kernel. If
symbol addresses important to lsof in /kernel.OLD and
/kernel don't match, the lsof WARNING messages result.

3.41.2 Why does lsof produce "garbage" output?

Kernel name cache warnings may not be the only sign that
lsof
is using incorrect symbol addresses to read kernel
values. If there's no reasonable test lsof can make on
what it reads from the kernel, it may issue other warnings
or even report nonsensical results.

The warnings may appear on STDERR, such as:

```
lsof: can't read proc table info
```

Or the warnings may appear in the NAME column as messages
saying lsof can't read or interpret some kernel structure --
e.g.,

```
... NAME
... can't read file struct from 0x12345
```

One possible work-around is to point lsof's kernel symbol
address gathering at the proper boot file. That can be
done with lsof's -k option -- e.g.,

```
$ lsof -k /kernel.OLD
```

The best work-around is to make sure the standard boot file
is properly sited -- e.g., if you've moved a new /kernel
in place, boot it.

3.42 Why does lsof report open files when run as super user that it doesn't report when run with lesser privileges?

The most likely cause is that the HASSECURITY option was
selected when

the lsof executable was built.

If HASSECURITY is defined when lsof is built, and lsof is
run with the privileges of a non-ROOT user, it will only
list open files belonging to the user. The same lsof
executable, when run with root user privileges, will list
all open files.

However, if HASSECURITY and HASNOSOCKSECURITY are both
defined when lsof is built, lsof will list open files
belonging to the user and will also list anyone else's open
socket files, provided their listing is selected with the
"-i" option.

So first ask yourself if the process whose open files lsof
won't list belong to a user other than the one under which
you're running lsof, and are not open socket files. If
either is true, use lsof's help (-h or -?) option and look
for a line near the bottom of the help panel that says:

    "... can list all files..."

If the leading "..." says "Only root" then HASSECURITY was
defined when lsof was built. If the trailing "..." says
", but anyone can list
socket files" then HASNOSOCKSECURITY
was also defined.

Should you want an lsof not built with HASSECURITY defined,
rerun the lsof Configure script. If you let Configure do
customization, make sure you answer 'n' when it asks if
you want to enable HASSECURITY and HASNOSOCKSECURITY. If
you don't need to do customization, you can rebuild lsof
with the "-n" option to Configure. Here's an example of
such a rebuild sequence:

    $ Configure -clean
    $ Configure -n <dialect-abbreviation>
    $ make

More information on the HASSECURITY and HASNOSOCKSECURITY
options may be found in the "Security" section of the
00README file of the lsof distribution.

3.43 Test Suite Problems

3.43.1 Errors all tests can report:

3.43.1.1 Why do tests complain "ERROR!!! can't execute ../lsof"?

All tests in the test suite expect an executable lsof file
to exist in the tests parent directory, ../lsof.

If there's none there, the tests/Makefile has a rule to
make it, but there are probably
circumstances where that
rule may fail.

The work-around is to re-Configure and re-make lsof, then
run the test suite.

3.43.1.2 Why do tests complain "ERROR!!! can't find ..." a file?

Many tests create (or use from a supplied environment
variable path) a test file and use lsof to find it. When
lsof can't file the file, the tests report the error with
messages of the form:

ERROR!!! can't find ... : <some file path>
or
ERROR!!! lsof couldn't find ...

These type of error messages mean that the lsof field output
delivered to the test didn't contain a file that the test
could identify as the one it intended lsof to find. It
might also mean that the process information -- command
name, PID or parent PID -- didn't match what the test
expected.

This could imply a bug in the test or a bug in lsof. Try
using lsof to find a known file that is open. For example,
while in the tests sub-directory, do this:

```
$ sleep 30 < Makefile
$ ../lsof Makefile
```

If
lsof doesn't report that Makefile is open, then the
fault may be with lsof. If lsof reports the file is open,
search further in the test code for the failure cause.

3.43.1.3 Why do some tests fail to compile?

If a test suite program fails to compile, it may be because
I've never had an opportunity to compile the test on the
particular UNIX version you are using.

See Appendix B in 00TEST for a list of the UNIX dialects where the test suite has been validate.

3.43.1.4 Why do some tests always fail?

There are several tests in the optional group that have conflicting or special requirements:

LTbigf needs a dialect and file system that support large files.

LTlock won't work if the tests/ sub-directory is on an NFS file system.

LTnfs won't work if the tests/ sub-directory is not on an NFS file system.

So for two tests in particular, LTlock and LTnfs, one will generally fail.

Some failing tests can be run successfully by supplying to
them a path to the appropriate type of file system with the -p option.

3.43.1.5 Why does the test suite say it hasn't been validated on my dialect?

When you use the default rule of the test suite's Makefile, it may issue this complaint:

```
$ cd tests
$ make
!!!WARNING!!!

This dialect or its particular version may not have
been validated with the lsof test suite.  Consequently
some tests may fail or may not even compile.

!!!WARNING!!!
```

You are then given the opportunity to answer 'y' to have the test suite operation continue.

This message means that the tests/TestDB file in the tests sub-directory doesn't show that the test suite has been run with the combination of compiler flags found in

tests/config.cflags. The tests might nor run; they may
encounter compiler failures.

See 00TEST for more information on the UNIX dialects where
the test suite has been validated and on the workings of
TestDB and its supporting scripts.

When
the tests/Makefile "auto" rule is used, the message
is more terse and the condition is fatal.

   This suite has not been validated on:

<dialect_description>

No opportunity to continue is offered.

The tests/Makefile "silent" rule will skip checking for
the validation footprint.

3.43.1.6 Why do the tests complain they can't stat() or open()
 /dev/mem or /dev/kmem?

When the tests detect that lsof for the dialect reads its
information from kernel memory (i.e., the LT_KMEM definition
is present in tests/config.cflags), and when the lsof
executable path is ../lsof, the tests make sure they can
stat() and open() for read access the relevant kernel memory
devices, /dev/kmem and possibly /dev/mem.

If those stat() or open() operations fail, the tests issue
an error message and quit. The message explains why the
system rejected the operation in terms of system "errno"
symbols and messages. More often than not the explanation
will be that the process lacks permission
to access the
indicated device node.

One work-around is to give the lsof executable being tested
the necessary permission -- e.g., via chgrp, chmod, etc.
-- and set its path in the LT_LSOF_PATH environment variable.
(See 00TEST.)

Another work-around is to make sure the process that runs
the tests has the necessary permissions -- e.g., run it as
root, or enable the process login to access the resources.
For example, I can run the tests on my personal work-station
because /dev/kmem and /dev/mem are readable by the "kmem"

group and my login is in that group.

3.43.2 LTbigf test issues

3.43.2.1 Why does the LTbigf test say that the dialect doesn't support large files?

Large file support is defined dialect by dialect in the lsof source files and Configure script. If large file support isn't defined there, it isn't defined in the LTbigf test.

If you think that's wrong for a particular dialect, contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

3.43.2.2 Why does LTbigf complain about operations on its config.LTbigf* file?

The LTbigf must be able to write a large file test (size > 32 bits) and seek within it and the process file ulimit size must permit the operation. If the default location for the test file, tests/, isn't on a file system enabled for large file operations or if the process ulimit file block size is too small, lsof will get file operation errors, particularly when seeking

There may be a work-around. Specify the path to a file LTbigf can write in a file system enabled for large file operations a the -poption. Make sure that the ulimit file block size permits writing a large file. For example, presuming /scratch23 is large-file-enabled, and presuming you have permission to raise the ulimit file block size, this shell commands will allow the LTbigf test to run on AIX:

```
$ ./LTbigf -p /scratch23/abe/bigfile
```

(Note: syntax for the ulimit command varies by dialect and by shell. Discovering the proper variant is left to the reader.)

More information on this subject can be found in the LTbigf description in the 00TEST file. If course, the LTbigf.c

source file in tests/ is the ultimate source of information,

3.43.2.3 Why does LTbigf warn that lsof doesn't return file offsets?

On some dialects (e.g., Linux) lsof can't report file offsets, because the data access method underlying lsof doesn't provide them. If LTbigf knows that lsof can't report file offsets for the dialect, it issues this warning:

```
  LTbigf ... WARNING!!!  lsof can't return file offsets
for this dialect, so offset tests have
been disabled.
```

LTbigf then performs the size test and skips the offset tests.

For more information see 00TEST and the "Why doesn't /proc-based lsof report file offsets (positions)?" Q&A of this file.

3.43.3 Why does the LTbasic test complain "ERROR!!! lsof this ..." and "ERROR!!!
lsof that ..."?

The LTbasic test program uses lsof to examine a running lsof process. It looks for the lsof current working directory, executable (if possible), and kernel memory file (if applicable).

Failures to find those things result in the LTbasic error messages. More information on how LTbasic produces the error messages may be found in the LTbasic.c source file.

On HP-UX 11.11 and higher, for example, if the test's current working directory is on a loopback (LOFS) file system, LTbasic won't be able to find the current working directory of the lsof process because of a bug in the HP-UX kernel.

The solution for that HP-UX problem is to install an HP-UX patch. See the answer to the "Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?" question for more information on the patch.

3.43.4 NFS test issues

3.43.4.1 Why does the LTnfs test complain "couldn't find NFS file ..."?

The LTnfs test must work with an NFS test file.

After it
opens the file it asks lsof to find it on an NFS file system.
If the file isn't on an NFS file system, lsof won't find it,
and the NFS test script complains and fails.

The work-around is to use -p option to supply a path to a
regular NFS file (not a directory) that is on an NFS file
system that LTnfs can read. Presuming /share/bin/file is
such a file and can be opened for reading by the LTnfs
test, this sample shell command could be used to run the
LTnfs test successfully:

```
$ ./LTnfs -p /share/bin/file
```

(If the NFS file system is enabled for large files, the
NFS test will produce the error message described in the
following Q&A.)

3.43.5 LTnlink test issues

3.43.5.1 Why does the LTnlink test complain that its test file is on
an NFS file system?

The LTnlink test may complain:

```
LTnlink ... WARNING!!! test file <path> is NFS mounted.
```

and then issue an explanation and a hint about using the
-p option.

The LTnlist test does this because of the
way NFS file
links are managed when an NFS file is unlinked and the
unlinking process still has the file open. Unlike with
files on a local file system, when an NFS file that is
still open is unlinked, its link count is not reduced.

The file name is changed to a name of the form .nfsxxxx
and the link count is left unchanged until the process
holding the file open closes it. That's done by NFS so it
can keep proper track of the file on NFS clients and servers.

Since the link count isn't reduced when the LTnlink test
program closes the NFS test file it still has open, lsof
won't find it for LTnlink with a link count of zero.
Consequently, LTnlink disables that test section and issues
its warning.

The warning suggests that the unlink test section can be
run by giving LTnlink a path to a test file with the -p
option. That path must name a file LTnlink can write and
unlink. Presuming /scratch23/abe/nlinkfile is on a local
file system and the LTnlink test can write
to it and unlink
it, this sample shell command can be used to run the complete
LTnlink test successfully:

```
$ LTnlink -p /scratch23/abe/nlinkfile
```

3.43.5.2 Why does LTnlink delay and report "waiting for link count update: ..."?

On some UNIX dialects and file system combinations the
updating of link count after a file has been unlinked can
be delayed. Consequently, lsof won't be able to report
the updated link count to LTnlink for a while.

When lsof doesn't report the proper link count to LTnlink,
it sleeps and repeats the lsof call, using the "waiting
for link count update: ..." message as a signal that it is
waiting for the expected lsof response. The wait cycle
duration is limited to approximately one minute.

3.43.5.3 Why does LTnlink fail because of an unlink error?

LTnlink may fail with an error similar to:

```
LTnlink ... ERROR!! unlink(<name>) failed: (Permission denied).
```

That message will be followed by a short explanation.

The error means that the
kernel support for the file system on
which the file <name> resides does not allow a process to
unlink a file while it has the file open. (When LTnlink is run
without the "-p path" option, it creates a <name> that begins
with "./config.LTnlink" and ends with the LTnlink process ID
number.)

An unlink failure of this type runs counter to original UNIX
file system behavior, but it has been observed on some file
system types, especially on the ZFS file system.

The work-around is to run LTnlink on a file system that allows
a process to unlink a file it has open. Usually /tmp has that
support. So, try running LTnlink this way:

```
$ ./LTnlink -p /tmp/<name>
```

where <name> is a unique name in /tmp of your choosing. To be safe, create a subdirectory in /tmp, named by your login:

```
$ rm -f /tmp/<login>
$ mkdir /tmp/<login>
$ ./LTnlink -p /tmp/<login>/<name>
```

3.43.6 LTdnlc test issues

3.43.6.1 Why won't the LTdnlc test run?

Lsof is unable to access the DNLC cache on AIX, because the kernel symbols for the DNLC aren't exported. Contact IBM to learn why that decision was made.

The LTdnlc test won't work on Apple Darwin because lsof can't obtain reliable DNLC information.

The LTdnlc test may fail on other dialects. Failure causes include: a busy system with a DNLC that is changing rapidly; path name components too large for the DNLC; a file system -- e.g., NFS, /tmp, loopback -- which doesn't fully participate in the DNLC; or DNLC limitations (Many DNLC implementations will only store path name components if they are 31 characters or less.)

If you suspect the file system doesn't fully participate in kernel DNLC processing, as a work-around rebuild and test lsof on one that does.

3.43.6.2 What does the LTdnlc test mean by "... <path> found: 100.00%"?

Even when it succeeds the LTdnlc test will report:

```
LTdnlc ... /export/home/abe/src/lsof4/tests found: 100.00%
```

This message means that the LTdnlc test asked lsof to find the file at the indicated path five times and lsof found the full path name in the indicated percentage of calls. The LTdnlc test considers it a failure if the percentage falls below 50.0%

3.43.6.3 Why does the DNLC test fail?

The DNLC test may fail when some component of the lsof tests/ sub-directory can't be cached by the kernel DNLC. Some kernels have a limit on the length of individual components (typically) 32.

3.43.7 Why hasn't the test suite been qualified for 64 bit HP-UX 11 when lsof is compiled with gcc?

When I attempted to qualify lsof for HP-UX 11, compiled with gcc 3.0, the LTsock test failed. I traced the failure to a gcc compilation error. Because LTsock is an important test, I didn't feel that the test suite was qualified if it failed.

LTsock compiles and runs correctly on 64 bit HP-UX 11 when compiled with HP's ANSI-C.

3.43.8 LTszoff test issues

3.43.8.1 Why does LTszoff warn that lsof doesn't return file offsets?

On some dialects (e.g., Linux) lsof can't report file offsets, because the data access method underlying lsof doesn't provide them. If LTszoff knows that lsof can't report file offsets for the dialect, it issues this warning:

```
LTszoff ... WARNING!!!  lsof can't return file offsets
for this dialect, so offset tests have
been disabled.
```

LTszoff then performs the size test and skips the offset tests.

For more information see 00TEST and the "Why doesn't /proc-based lsof report file offsets (positions)?" Q&A of this file.

3.43.9 LTlock test issues

3.44 File descriptor list (the ``-d'' option) problems

3.44.1 Why does lsof reject a ``-d'' FD list?

Lsof rejects ``-d'' FD lists that contain both exclusions and inclusions with messages like:

lsof: exclude in an include list: ^1
lsof: include in an exclude list: 2

That's because ``-d'' FD lists are processed as ORed lists,
so it makes no sense for them to contain both exclusions
and inclusions.

I.e.,, if a ``-d'' FD list were
to contain ``^cwd,1'', the
``^cwd'' member is useless, because the ``1'' member
dominates by saying "include only FD 1". That effectively
excludes ``cwd'' FD.

Note that lists may have multiple members of the same type,
exclude or include. They are processed as an ORed set.
If an FD isn't excluded by any member of an exclude list,
it is selected. If an FD is included by any member of an
include list, it is selected.

3.44.2 Why are file descriptors other than those in my FD list reported?

The FD list that follows ``-d'' excludes or includes file
descriptors, but unless the ``-a'' (AND) option is specified,
the FD list selections are ORed to the other selections.

For example, the following lsof command will cause all file
descriptors to be listed for the lsof command, and all but
the cwd descriptor for all other commands, probably not
what was intended.

```
$ lsof -clsof -d^cwd
```

Hint: use ``-a'' -- e.g.,

```
$ lsof -clsof -a -d^cwd
```

3.45 How can I supply device numbers for inaccessible NFS file systems?

When lsof can't get device numbers for inaccessible NFS file
systems via stat(2) or lstat(2), it attempts to get them from
the mount table's dev=xxx options. Successes are reported with
a warning message that indicates the source of the device
number and that output might be incomplete as a consequence of
the warnings.

Some system mount tables -- e.g., Linux /proc/mounts -- don't have a dev=xxx option. In that case, and provided lsof for the dialect supports them, you can use the +m option to create a mount table supplement file and the "+m m" option to use it.

First check the lsof -h (help) output to see if the +m and "+m m" options are supported. If they are, use +m to create a mount table supplement file when all mounted file systems are accessible. Use "+m m" later to make the supplement available when some mounted file systems might not be available.

Here's an example that creates a mount supplement file in $HOME/mnt-sup
and later makes it available to lsof.

```
$ rm -f $HOME/mnt-sup
$ lsof +m > $HOME/mnt-sup
...
$ lsof +m $HOME/mnt-sup <other lsof options>
```

If lsof has to get the device number from the supplement, it will issue an informative warning message. The warning can be suppressed with lsof's -w option.

Caution! Since the mount table supplement file is static, it is its supplier's responsibility to update it as file system mounts change.

For more information, consult the lsof man page. The "ALTERNATE DEVICE NUMBERS" section has useful information on how lsof acquires device numbers when stat(2) or lstat(2) fail.

3.46 Why won't lsof find open files on over-mounted file systems?

When a file system, /xyz for example, is mounted on the same mount point as another file system, /abc for example, running lsof with an argument of the path of the first file system's mount point -- the over-mounted one, /abc -- probably will not reveal any files open
on /abc.

That's because lsof looks for open files on a file system by looking for files with the file system's device number. The two file systems usually have different device numbers and lsof determines the device number search key from the supplied name of the second file system.

A general work-around exists only for Linux. On that UNIX dialect, when you know the over-mounted file system's mount point path, you can ask lsof to report on all open files and grep that output for the path of the over-mounted file system mount point.

3.47 What can be done when lsof reports no more space?

Many lsof methods cache information in memory, using the dialects malloc() library function. When malloc() can't allocate the requested amount of memory, lsof exits with warning messages similar to this AIX message:

```
lsof: no more dev-ch space at pid 2257750: 0x82a8e600
```

Lsof then exits immediately and produces no more output.

A possible work-around is to increase the memory foot print
of the shell that runs lsof. That is often done with the ulimit(1) shell command.

3.48 What if the lsof build encounters ar and ld problems?

The lsof main and library Makefiles use the library archiver, ar, and the system loader, ld, applications. Improperly located, installed or configured versions of them may cause the lsof build to encounter errors with them.

The application producing the error should identify itself in its error messages.

The first thing to check the path of the application that is being used. Try `which ar` or `which ld` to see if perhaps the PATH used during the build might be causing the wrong archiver or loader to be used.

If the problem is with the use of the wrong archiver, and it's not possible to correct the PATH to it, try using the LSOF_AR environment variable to specify the path to and arguments for the correct archiver. See 00XCONFIG for more information and note that LSOF_AR must specify the path to the archive application
and the arguments for it, less the terminating
library and module name arguments.

If the problem is with the loader, there is no lsof work-around. That's because lsof calls the loader via the C

compiler, so the problem must be fixed at the compiler (system) level.

3.49 Why does lsof -i report an open socket file for a process, but lsof -p on that process' ID report nothing?

The lsof in use was probably built with the HASSECURITY and HASNOSOCKSECURITY options and the process in question does not belong to the user of lsof.

The HASSECURITY option limits lsof output to processes owned by the user invoking lsof and the HASNOSOCKSECURITY option weakens that slightly to allow output of open socket file information for all processes.

For example, if process PID 12345 is owned by some user other than the one invoking lsof, and lsof has been compiled with the HASSECURITY and HASNOSOCKSECURITY options, the following lsof command will display the open socket files of process 12345:

```
$ lsof -p 12345 -a -i
```

This security restriction is described in the lsof(8) manual page.

4.0 AIX Problems

4.1 What is the Stale Segment ID bug and why is -X needed?

Kevin Ruderman reports that he has been informed by IBM that processes using the AIX 3.2.x, 4.1[.12345]], 4.2[.1], and 4.3.x kernel's readx() function can cause other AIX processes to hang because of what appears to be file system corruption.

This failure, known as the Stale Segment ID bug, is caused by an error in the AIX kernel's journaled segment memory handler that causes the kernel's dir_search() function erroneously to believe directory entries contain zeroes. The process using the readx() call need not be doing anything wrong. Usually the system must be under such heavy load that the segment ID being used in the readx() call has been freed and then reallocated to another process since it was obtained from kernel memory.

Lsof uses the readx() function to access library entry

structures,
based on the segment ID it finds in the proc
structure of a process. Since IBM probably will never fix
the kernel bug, I've added an AIX-specific option to lsof
that controls its use of the readx() function.

By default lsof readx() use is disabled; specifying the
``-X'' option enables readx() use.

If you want to change the default readx() behavior of AIX
lsof, change the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE
definitions in dialects/aix/machine.h. You can also use
these definitions to enable or disable readx() -- consult
the comments in machine.h. You may want to disable readx()
use permanently if you plan to make lsof publicly executable.

When HASXOPT_ROOT is defined, lsof will restrict use of
the -X option to processes whose real UID is root; if
HASXOPT_ROOT isn't defined, any user may specify the -X
option. The Customize script offers the option to change
HASXOPT_ROOT when HASXOPT is defined and HASXOPT_ROOT is
named in any dialect's machine.h
header file.

I have never seen lsof cause a problem with its use of
readx(), but I believe there is some chance it could, given
the right circumstances.

4.1.1 Stale Segment ID APAR

Here are the details of the Stale Segment ID bug and IBM's
response, provided by Kevin Ruderman.

AIX V3
  APAR=ix49183
     user process hangs forever in kernel due to file
     system corruption
  STAT=closed prs TID=tx2527 ISEV=2 SEV=2
      (A "closed prs" is one closed with a Permanent
      ReStriction.)
  RCOMP=575603001 aix v3 for rs/6 RREL=r320

AIX V4 (internal defect, no apar #)
  prefix   p
  name   175671
  abstract   KERMP: loop for ever in dir_search()

Problem description:

1. Some user application -- e.g., lsof -- gets the segment
   ID (SID) for the process private segment of a target
   process from the process table.

2. The target process exits, deleting the process private
   segment.

3. The SID is reallocated for use as a persistent
segment.

4. The user application runs again and tries to read the
   user area structure from /dev/mem, using the SID it read
   from the process table.

5. The loads done by the driver for /dev/mem cause faults
   in the directory; new blocks are allocated; the size
   changed; and zero pages created.

6. The next application that looks for a file in the affected
   directory hangs in the kernel's dir_search() function
   because of the zero pages. This occurs because the
   kernel's dir_search() function loops through the variable
   length entries one at a time, moving from one to the
   next by adding the length of the current entry to its
   address to get the address of the next entry. This
   process should end when the current pointer passes the
   end of the known directory length.

   However, while the directory length has increased, the
   entry length data has not, so when dir_search() reaches
   the zero pages, it loops forever, adding a length of

zero to the current pointer, never passing the end of
   the directory length. The application process is hung;
   it can't be killed or stopped.

IBM closed the problem with a PRS code (Permanent ReStriction)
under AIX Version 3 and had targeted a fix for AIX 4.2. They
have recently (I became aware of it September 10, 1996)
cancelled the defect report altogether and have indicated they
are not going to fix the defect.

4.2 Gcc Work-around for AIX 4.1x

When gcc is used to compile lsof for AIX 4.1x, it doesn't
align one element of the user structure correctly. Xlc
sees the U_irss element as a type "long long" and aligns

it on an 8 byte boundary. That's because the default mode of xlc is -qlonglong; when -qlonglong is enabled, the _LONG_LONG symbol is also defined.

Gcc sees U_irss as a two element array of type long, because _LONG_LONG isn't defined. Hence gcc aligns the U_irss element array on a 4 byte boundary, rather than an 8 byte one, making the gcc incantation of the user structure 4 bytes shorter than xlc's.

When the length of gcc's user structure is supplied as argument 4 to the undocumented getuser() function of the AIX kernel, getuser() rejects it as an incorrect size and returns EINVAL.

Lsof has a work-around for this problem. It involves a special test in the Configure script when the "aixgcc" Configure abbreviation is used -- e.g.,

```
$ Configure -n aixgcc
```

The test is to compile a small program with gcc and check the alignment of U_irss. If it's not aligned on an 8 byte boundary, the Configure script makes a special copy of <sys/user.h> in ./dialects/aix/aix<AIX_version> whose U_irss will align properly, and generates compile time options to use it.

While I have tested this work-around only with 4.1.4, it should work with earlier versions of AIX 4.1. It does not work for AIX 4.2; a different work-around is employed there. (See the next section.)

If you want to use this technique to compile other AIX 4.1x programs with gcc for using getuser(), check the Configure script.

Stuart D. Gathman identified this gcc AIX alignment problem.

4.3 Gcc and AIX 4.2[.1]

Alignment problems with gcc and AIX 4.2[.1] inside the user structure are more severe, because there are some new 64 bit types in AIX that gcc doesn't yet (as of 2.7.x) support. The <sys/user.h> U_irss element problem, discussed in 4.3 above, doesn't exist in 4.2[.1].

The AIX lsof machine.h header file has a work-around, provided by Henry Grebler, that bypasses gcc alignment problems. Later versions of gcc (e.g., 2.8.x) will probably bypass the problems as well.

4.4 Why won't lsof's Configure allow the use of gcc for AIX below 4.1?

Gcc can't reliably be used to compile lsof for AIX versions below AIX 4.1 because of possible kernel structure element alignment differences between it and xlc.

4.5 What is an AIX SMT file type?

When you run AIX X clients with the DISPLAY environment variable set to ``:0.0'' they communicate
with the AIX X
server via files whose kernel file structure has an undefined type (f_type == 0xf) -- at least there's no definition for it in <sys/file.h>.

These are Shared Memory Transport (SMT) sockets, an artifact of AIXWindows, designed for more efficient data transfers between the X server and its clients.

Henry Grebler and David J. Wilson alerted me to the existence of these files. Mike Feldman and others helped me identify them as SMT sockets.

The curious reader can find more about SMT sockets in /usr/lpp/X11/README.SMT.

4.6 Why does AIX lsof start so slowly?

When AIX lsof starts it compares the running kernel's identity to the one for which it was built, using /usr/bin/oslevel. That comparison can sometimes take a long time to complete, depending on the system's maintenance level and how recently it was examined with oslevel.

AIX revisions 4.67 and above for AIX 5 and above don't use oslevel to determine the kernel identity. They use uname(2) instead,
and it is much faster.

You can skip the oslevel test by suppressing warning messages with lsof's -w option. Doing that carries with it the risk

of missing other warning messages, however.

You can also disable the kernel identity check by disabling the definition of the HASKERNIDCK symbol by editing AIX machine.h header file or by using the Customize script to disable it.

See the "Why does lsof warn "compiled for x ... y; this is z.?" section for more information.

4.7 Why does exec complain it can't find libc.a[shr.o]?

When you try to execute lsof you may get this complaint:

```
    exec(): 0509-036 Cannot load program ./lsof because of
        the following errors:
     0509-022 Cannot load library libc.a[shr.o].
     0509-026 System error: A file or directory in
  the path name does not exist.
```

This is probably the result of making lsof when the LIBPATH environment variable contained a directory path that doesn't contain libc.a. You can see what LIBPATH contained when lsof was made by using the dump application on lsof. For example, if LIBPATH contained /foo/bar when lsof was made, you will see this (partial) dump output:

```
    $ dump -H lsof
    ...
  ***Import File Strings***
    INDEX  PATH                    BASE        ...
    0      /foo/bar
```

To correct the problem, revisit the lsof source directory and remake lsof this way:

```
    $ unset LIBPATH; make  (sh or ksh)
or
    % unsetenv LIBPATH; make  (csh or tcsh)
```

4.8 What does lsof mean when it says, "no PCB, CANTSENDMORE, CANTRCVMORE" in a socket file's NAME column?

When an AIX application calls shutdown(2) on an open socket file, but hasn't called close(2) on the file, the file will remain visible to lsof as an open socket file without any extended protocol information.

Lsof reports that state in the NAME column by saying that
there is "no PCB" (Protocol Control Block) for the protocol
(e.g., TCP in the NODE column). If the open socket file
has
the state variables SO_CANTSENDMORE and SO_CANTRCVMORE
set -- i.e., from the shutdown(2) call -- lsof reports them
with the CANTSENDMORE and CANTRCVMORE notes in the NAME
column.

4.9 When the -X option is used on AIX 4.3.3, why does lsof disable
it, saying "WARNING: user struct mismatch; -X option disabled?"

The -X option causes lsof to read the loader information
of the user structure from virtual memory via the readx()
system call. It does that with the user structure definition
from <sys/user.h> that was compiled into the lsof executable.

On AIX 4.3.3 there are two different user structure
definitions in two separate <sys/user.h> header files,
distributed at different times by IBM. If lsof was compiled
with one and the kernel on which lsof is being run was
compiled with the other, lsof normally won't get correct
loader information when it calls readx().

In an attempt to compensate for that difference, lsof makes
an independent check of the loader information
by getting
the user structure's open file count via readx() and
comparing it to the open file count obtained independently
via getprocs(). When the two counts don't match, lsof
tries to read the count (and re-read the loader information)
with two offsets, based on observed differences between
the two user structures.

When one of the three attempts produces a correct open file
count, lsof uses its corresponding offset on subsequent
readings of the loader information.

When none of the three attempts produces a correct open
file count, lsof issues the WARNING message and disables
-X processing.

To eliminate this problem, obtain an lsof binary that
matches the kernel of the AIX 4.3.3 system where you want
to run lsof. Compiling lsof on the target system is the
preferred way to get a matching binary.

4.10 Why doesn't the -X option work on my AIX 5L or 5.[123] system?

If your AIX 5L or 5.[123] system uses the ia64 architecture,
lsof needs setuid-root permission to be
able to do the
processing that -X requires.

Check the output of `uname -a` to determine the architecture
type.

The work-around is to give lsof setuid-root permission.

4.11 Why doesn't /usr/bin/oslevel report the correct AIX version?

The oslevel man page says, "The oslevel command reports
the level of the operating system using a subset of all
filesets installed on your system."

You can see which fileset is below the expected level with
oslevel's -l option. For example, if you believe your
system is at AIX level 4.3.3, but oslevel reports 4.3.2,
use this oslevel command to find the filesets below 4.3.3:

```
$ /usr/bin/oslevel -l 4.3.3.0
```

If you don't know what level argument to supply to oslevel's
-l option, use oslevel's -q option first.

4.11.1 Why doesn't /usr/bin/oslevel report the correct AIX version
on AIX 5.1?

The subset list for oslevel on AIX 5.1 seems to include at
least two filesets, xlsmp.msg.en_US.rte and xlsmp.rte, that
do not install from AIX 5.1
media with a 5.1.0.0 level.
Hence, oslevel reports 5.0.0.0 instead of the expected
5.1.0.0.

If either xlsmp.msg.en_US.rte or xlsmp.rte is installed,
lsof's Configure script and run-time tests will identify
the AIX version incorrectly. The run-time test will
issue a complaint message of this form:

```
lsof: WARNING: compiled for AIX version xxx; this is yyy.
```

You can correct the Configure test by pre-defining the
oslevel value, setting the correct value in the LSOF_VSTR
environment variable before running the Configure script

-- e.g., to pre-define AIX 5.1 when using ksh, do this:

```
$ LSOF_VSTR=5.1.0.0 Configure -n aix
```

You can't affect oslevel output without uninstalling xlsmp.msg.en_US.rte and xlsmp.rte. If you can't do that, you'll have to put up with the run-time complaint.

4.12 Why does lsof for AIX 5.1 or above Power architecture complain about kernel bit size?

When you run an lsof binary on an AIX 5.1 or above Power system, it might complain:

```
 lsof: FATAL: compiled for a 32 bit kernel.
   The bit size of this kernel is 64.
```

or

```
    exec: 0509-036 Cannot load program ./lsof because of
     the following errors:
         0509-032 Cannot run a 64-bit program on a 32-bit
     machine.
```

Starting at lsof revision 4.61, lsof binaries for Power architecture systems running AIX 5.1 or above are closely tied to the kernel bit size. Lsof must do that so it can read and understand kernel structures.

Lsof's Configure script tunes the lsof configuration so that the binary built in the make(1) step is adjusted to the kernel bit size.

An lsof binary knows the bit size for which it was constructed, tests the bit size of the kernel under which it is running, and objects if the two sizes don't match. To see the bit size for which lsof was constructed, run it with its -v option and look for these lines in the output:

```
    configuration info: 32 bit kernel
```

or

```
    configuration info: 64 bit kernel
```

(Note: these lines will appear only in -v output for AIX 5.1 and above lsof binaries, built for Power architecture.)

You can see the kernel bit size test method in the aix stanza of the lsof Configure script and in the get_kernel_access()

function of the lsof .../dialects/aix/dproc.c source file.

There is more information on pre-defining the kernel bit size when building lsof in Configure, 00PORTING, and 00XCONFIG.

The only work-around is to use an lsof binary built to match the running kernel bit size.

4.13 What can't gcc be used to compile lsof on the ia64 architecture for AIX 5 and above?

Gcc can't be used to compile lsof on the ia64 architecture for AIX 5 and above because I haven't had access to a system that has a working gcc compiler. The gcc compiler on my one and only ia64 AIX 5.1 test system, provided by IBM, didn't work at all.

4.14 Why does lsof get a segmentation fault when compiled with gcc for a 64 bit Power architecture AIX 5.1 kernel?

When lsof is configured with the
lsof "aixgcc" Configure
abbreviation, the resulting lsof executable may cause a segmentation violation when it is run. I've observed this with gcc version 2.9-aix43-010414-7.

As far as I have been able to tell, the segmentation fault is the result of a gcc compilation, loading, or library error. Watching lsof run with gcc's companion debugger, gdb, shows no error in the lsof source code that might explain the fault.

The only work-around I know is to use the IBM C compiler in place of gcc -- i.e., use the "aix" lsof Configure abbreviation.

4.15 Why does lsof ignore AFS on my AIX system?

The lsof Configure script quits on AIX when AFS is present, the AIX version is greater than 4.3.3.0 or the AFS version is greater than 3.5. That's because I have no test systems available for those AIX and AFS version combinations.

When the lsof Configure script detects an AIX and AFS version combination that is unsupported, it will report:

!!!FATAL: Lsof does not support

AFS on this combination of
AIX and AFS versions. To disable AFS, set the
value of the AIX_HAS_AFS environment variable to
"no".

The only work-around is to set the AIX_HAS_AFS environment
variable as explained in the error message:

```
$ AIX_HAS_NSF=no; export AIX_HAS_NFS
$ ./Configure -n aix
```

4.16 Why does lsof report "system paging space is low" and exit?

When AIX paging space runs low, the AIX kernel sends a SIGDANGER
signal to processes, warning them that they should reduce their
memory usage.

When lsof receives that signal, it issues the following fatal
error message and exits:

```
lsof: FATAL: system paging space is low.
```

A possible work-around is to limit the amount of information
lsof must cache in its process memory with the "-c", "-g", "-l"
and "-p" options.

Also see the answer to the "What can be done when lsof reports
no more space?" question.

4.17 Why does lsof have a compilation problem on AIX 5.3 above
maintenance level 1?

On
some AIX 5.3 systems with maintenance levels 2 and higher
installed, lsof 4.77 and below may not compile properly. The
compiler complains the snapshotObject structure definition,
needed by <j2/j2_inode.h>, is missing.

That problem is fixed in the 4.78 revision.

5.0 Apple Darwin Problems

5.1 What do /dev/kmem-based and libproc-based mean?

Lsof for Apple Darwin currently uses /dev/kmem to read kernel
data structures from which it gathers and reports open file
information. That version of lsof is called /dev/kmem-based

lsof.

At an upcoming release lsof will use a library called libproc
to obtain information about open files. That version of lsof
wil be called libproc-based lsof.

The /dev/kmem-based lsof sources may be found in the kmem
subdirectory of the dialects/darwin branch of the lsof source
tree. When the supporting version of Apple Darwin is released,
the libproc-based lsof sources will be found in
.../dialects/darwin/libproc.

5.2 /dev/kmem-based Apple Darwin Questions

5.2.1 Why does Configure ask for a path to the Darwin XNU kernel header files?

When lsof was ported to Apple Darwin by Allan Nathanson at
revision 4.53, some kernel header files needed by lsof
weren't being exported by the developers. (That's still
true at lsof revision 4.76.)

At first a shell script that Allan provided would get the
missing header files by checking them out from the CVS
root. Although the script was updated from time to time,
eventually the re-organization of Darwin sources has made
it impossible to update the script to do an automatic
download of the missing header files.

At lsof revision 4.69 and above it is necessary for the Darwin
lsof builder to download the Darwin XNU kernel headers before
attempting to build lsof. The download my be done via a web
browser, starting at this URL:

    http://www.opensource.apple.com/darwinsource/index.html

Once there, select the link to the Mac OS X version that
matches the one on the
system where lsof is to be built.

Follow that link's "[Source]" link. Once there, select the
tar.gz link of the xnu* entry near the bottom of the page.
That entry should have a name that matches the xnu* name shown
by `uname -a` -- e.g., if uname reports:

```
$ uname -a
... root:xnu/xnu-517.7.21 ...
```

Then the appropriate xnu* entry is xnu-517.7.21. Clicking its link should lead to an "Apple Open Source" page requesting an Apple ID and password.

Enter them if they're available. If an Apple ID and password are not available, get them by following the instructions on the page -- i.e., follow the signin.apple.com link.

Once a valid Apple ID and its password have been entered, the download will begin. Select the saving of the downloaded xnu*.tar.gz file in an appropriate place on the Mac OS X system.

Once the download completes, install it. Use gunzip to decompress the download and tar to extract the archive -- e.g.,

```
    $ gunzip -c xnu-517.7.21.tar.gz
| tar xf -
```

Remember the absolute path to the extracted archive. That is its installed place. E.g., if the xnu-517.7.21.tar archive was extracted to the lsof builder's home directory, its full installation path will be something like:

```
    ~/xnu-517.7.21
```

Now run the lsof Configure script. When it asks for the path to the installed Darwin XNU kernel header files, supply the path to the gunzip'd and extracted xnu* archive -- e.g., ~/xnu-517.7.21.

The path to the Darwin XNU kernel headers may also be supplied to the Configure script in the DARWIN_XNUDIR environment variable, eliminating the need to enter it interactively -- e.g.,

```
    $ DARWIN_XNUDIR=~/xnu-344.49 ./Configure -n darwin
```

5.2.1.1 Why does Configure complain that Darwin XNU kernel header files are missing?

These are some reasons why the lsof Configure script might claim that Darwin XNU header files are missing:

* The wrong path to them was specified.

* The files and directories in the path are

not readable
and searchable -- i.e., check the modes and ownerships.

* The downloaded archive doesn't match the Mac OS X
version of the system.

If in doubt, revisit the Darwin XNU kernel header file
download instructions in the answer to the question "Why
does Configure ask for a path to the Darwin XNU kernel
header files?"

If Configure still can't find Darwin XNU kernel header
files, contact me via e-mail at <abe@purdue.edu> for help.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

5.2.2 Why doesn't Apple Darwin lsof report text file information?

At the first port of lsof to Apple Darwin, revision 4.53,
insufficient information was available -- logic and header
files -- to permit the installation of VM space scanning
for text files. As of lsof 4.70 it is sill not available.

Text file support will be added to Apple Darwin lsof after
the necessary information becomes available.

5.2.3 Why
doesn't Apple Darwin lsof support IPv6?

At the first port of lsof to Apple Darwin, revision 4.53,
Apple Darwin lacked IPv6 support. IPv6 became available
in Apple Darwin version 1.5 and support for it was added
to lsof then.

5.2.4 Why does lsof complain about a mismatch between the release
for which lsof was compiled and the booted Mac OS X release?

When lsof is started on the "Gold Master" Darwin release
(aka Mac OS X), it complains:

lsof: compiled for 1.0 release; this is 1.3.2.

This happens because the lsof binary released with Mac OS
X was built on a system whose release number (1.0) doesn't
match that of the released system -- usually 1.3.x Lsof
makes this check because UNIX dialect OS changes are often
accompanied by header file changes that affect lsof.

In this specific case, this error can be ignored. If you
don't want to do that, get the lsof distribution and build
lsof so its built-on and running-on Mac OS X release numbers
match.

5.2.5 Why does
lsof for Apple Darwin 8 and higher report
"stat(...): ..." in the NAME column?

Lsof for Apple Darwin 8 may report messages like these in the
NAME column:

```
   stat(/private/var/run/asl_prune): No such file or directory
 or
   stat(/private/var/db/netinfo/local.nidb/Config): Permission denied
```

Those messages indicate that lsof was unable to collect open
file information for the paths enclosed in "stat(...)" with the
stat(2) function, because the function encountered the reported
error.

A work-around for the "Permission denied" error is to run lsof
with elevated privileges -- e.g., when logged on as the super
user.

If the stat(2) error message is "No such file or directory",
the file probably has been unlinked (removed) and there is no
lsof work-around.

5.2.6 What are the limitations of Apple Darwin lsof link count
reporting?

Lsof for Apple Darwin cannot report link count information
reliably.

For Apple Darwin below 8 link count information is not always
available
in the kernel node structures available to lsof.
When link count information is available, however, it includes
link counts of zero. Thus, using lsof's +L1 option may result
in the finding of some files whose link counts are zero.

Lsof can report only some link count information for Apple
Darwin 8 and above. Link count information is only available
for files where lsof can assemble the full file path and has
permission to apply stat(2) to it. (See the answer to the "Why
does lsof for Apple Darwin 8 and higher report "stat(...): ..."
in the NAME column?" question for more information on stat(2)

failures.)

Apple Darwin 8 and above files that have been unlinked and thus have a link count of zero cannot be found by stat(2) -- i.e., stat(2) returns a "No such file or directory" error. As a result lsof never displays link counts of zero and the use of lsof's +L1 option to find them always fails.

5.2.7 Why does Apple Darwin report process group IDs incorrectly?"

The kmem version of lsof for Apple Darwin does not report process group IDs correctly when requested to do so with its ``-g" option. This is a bug that surfaced after the libproc version was released and access to kmem test systems has prevented patching the bug.

If you are using the kmem version and would like a fix for this problem, please send e-mail to me <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

5.3 Libproc-based Apple Darwin Questions

6.0 BSD/OS BSDI Problems

6.0.5 Statement of deprecation

As of lsof revision 4.76 support for BSDI BSD/OS has been dropped. The 4.76 distribution of lsof for BSDI BSD/OS may be found on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

7.0 DEC OSF/1, Digital UNIX, and Tru64 UNIX Problems

7.1 Why does lsof complain about non-existent /dev/fd entries?

When you run lsof for Digital UNIX 3.2, lsof may complain:

```
    lsof: can't lstat /dev/fd/xxx:
No such file or directory
    lsof: can't lstat /dev/fd/yyy: No such file or directory
```

(Or it may warn about other missing /dev/fd paths.) When you do an ``ls /dev/fd" none of the missing paths are listed.

This is caused by a bug in the DEC library function

getdirentries(). For some reason, when /dev/fd is a file system mount point, getdirentries() returns an incorrect size for it to readdir(). (Lsof calls readdir() in its ddev.c readdev() function.) Because of the incorrect size, readdir() goes past the end of the /dev/fd directory buffer, encounters random paths and returns them to lsof. Lsof then attempts to lstat(2) the random paths, gets error replies from lstat(2), and complains about the paths.

Duncan McEwan discovered this error and has reported it to DEC. Duncan also supplied an alternate readdir() function as a work-around. I've incorporated his readdir() in dialects/osf/ddev.c (as the static ReadDir() function) with some slight modifications, and enabled its use when the USELOCALREADDIR symbol is defined.

The Configure script defines USELOCALREADDIR for Digital UNIX version and 3.2. If you don't want to use Duncan's local readdir() function, edit the Makefile and remove -DUSELOCALREADDIR from the CFGF string. When DEC releases a corrected getdirentries() function, I'll modify the Configure script to stop defining USELOCALREADDIR.

7.2 Why does the Digital UNIX V3.2 ld complain about Ots* symbols?

When you compile lsof on your Digital UNIX V3.2 system, ld may complain:

```
ld:
Unresolved:
knlist
_OtsRemainder32Unsigned
_OtsDivide64Unsigned
_OtsRemainder64Unsigned
_OtsDivide32Unsigned
_OtsMove
_OtsDivide32
_OtsRemainder32
*** Exit 1
```

Chris Eleveld reports this happens on Digital UNIX V3.2 systems after the Fortran compiler has been installed.

The best work-around seems to be to remove -lmld from the CFGL string in the Makefile produced by Configure -- i.e., change:

CFGL= -lmld
to
CFGL=

According to the V3.2 man page for nlist(3), this shouldn't work, but my testing shows that it does. Although I haven't been able to test this second work-around, you might try adding -lots to CFGL, rather than removing -lmld -- i.e., change:

CFGL= -lmld
to
CFGL= -lmld -lots

WARNING: my testing also shows that the V2.0 nlist(3) man page means what it says when it calls for -lmld -- lsof loaded without -mld under V2.0 can't locate the proc (process) table address.

DON'T REMOVE -lmld FROM THE DIGITAL UNIX V2.0 MAKEFILE.

If you run into this problem, please let me know what problem you encountered and how you solved it.

7.3 Why can't lsof locate named pipes (FIFOs) under V3.2?

While lsof for V3.2 can report on named pipes (FIFOs), it can't find them by name. That appears to happen because of the way the V3.2 kernel lstat(2) function reports named pipe device numbers.

The V3.2 kernel reports the device
number as 0xffffffff,
while the kernel structures for named pipes that lsof examines contain the device number of the file system on which the named pipe resides.

Consequently, lsof can't match the device and inode number pair it receives from applying lstat(2) to the named pipe with any device and inode number pair it finds when scanning kernel structures.

I don't have a work-around. You can, of course, ask for full lsof output and use a post-processing filer (e.g., grep) to locate the named pipe of interest.

This problem doesn't exist under V2.0.

7.4 Why does lsof use the wrong configuration header files?
For example, why can't the lsof compilation find cpus.h?

DEC OSF/1, Digital UNIX, and Tru64 UNIX configuration header files describe the hardware and software environment for which your kernel boot file was constructed. For example, /sys/<name>/cpus.h defines the number of CPUs in its NCPUS #define.

Lsof searches for the configuration header file subdirectory in /sys (/usr/sys for Digital UNIX version 4.0 and Tru64 UNIX) by converting the first host name component to capital letters -- e.g., TOMIS is derived from tomis.bio.purdue.edu. If that subdirectory exists, lsof uses header files from it. (Configure reports what subdirectory is being used.)

If Configure doesn't find a host-name derived subdirectory, it prompts you for the entry of a subdirectory name. If you can't find one, quit Configure and run the kernel generation process to create a proper configuration sub-directory. If you don't identify a proper configuration subdirectory and you try to compile lsof, the compiler will complain about missing header files -- e.g., a missing cpus.h.

Once you have located or generated a proper configuration subdirectory, rerun Configure. If you have generated a configuration subdirectory whose name is derived from the host name, Configure will find and use it. If not, you will have to specify its name to Configure.

7.5 Why does lsof indicate incomplete paths with " -- " for Tru64 UNIX 5.1 files?

When lsof can't find a component of a path in the kernel's name cache (aka DNLC), or can't determine that the left-most component has as its parent the file system root, it uses an "incomplete path" notation. That notation begins with the file system root name, followed by " -- ", followed by the consecutive path name components lsof was able to find in the DNLC -- e.g., "/ -- init".

Because the DNLC was significantly redesigned in Tru64 UNIX 5.1, lsof's handling of the cache had to be completely redone. As part of the DNLC redesign a name cache entry

parameter lsof formerly used to locate the file system root of a path was removed. With help from Chang Song I've been able to implement an alternate method for detecting the root of these file system types: AdvFS (MSFS), CDFS, DVDFS, FDFS, NFS, NFS3, and UFS.

When lsof doesn't know how to identify the root for a file system type, it
will resort to the " -- " incomplete path
notation.

7.6 Why doesn't lsof report link count, node number, and size for some Tru64 5.x CFS files?

Lsof reports link count, node number, and size for open CFS files as recorded in their kernel node structure's cached attributes. Sometimes not all attributes are cached on the system where lsof runs, so lsof cannot report them.

7.7 Why does lsof say it can't read the kernel name list or proc table on Digital UNIX 4.x or Tru64 UNIX?

By default on Digital UNIX 4 and Tru64 UNIX lsof reads the addresses for kernel symbols with the knlist(3) function. That function can fail, for example, when the kloadsrv daemon isn't running or is malfunctioning. When that happens, lsof may abort with one of these error messages:

```
  lsof: can't read kernel name list from knlist(3): ...
or
  lsof: can't read proc table info
```

The first message suggests a complete knlist(3) or kloadsrv failure; the second, a partial one.

If you know
the name of the file from which the running
system was booted, e.g., /vmunix, you can use lsof's -k
option to direct it to read kernel symbol addresses from
the name list of that file --

```
  $ lsof -k /vmunix ...
```

If that works, then knlist(3) is malfunctioning and you need to fix it.

8.0 FreeBSD Problems

8.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open FreeBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

8.2 Why doesn't lsof work on my FreeBSD system?

If lsof doesn't work on your FreeBSD system, first make sure you have the latest lsof revision. See the answer to the "Where do I get lsof?" question for information on how to get the latest lsof revision.

Once you have gotten the latest lsof revision, Configure and make it. If Configure fails -- e.g., it complains about an unknown FreeBSD version -- then lsof probably hasn't been ported to your FreeBSD version yet, and there's
no need to go any further. Follow the answer to the "How do I report an lsof bug" to report the Configure complaint to me.

If you are able to Configure and make lsof, run its test suite. (See the answer to the "Is there a test suite?" question for more information on how to use lsof's test suite.)

If lsof still fails, make sure your kernel sources, kernel header files, kernel boot file, standard header files and libraries are synchronized. They should all be built from the same CVS refresh. (Don't forget to do a "make buildworld" followed by a "make installworld".) If they aren't, then the KVM library or lsof may be using kernel structure definitions that don't match the booted kernel; or lsof may fail to compile properly because of header files in /usr/src/sys/sys and /usr/include/sys that don't match.

If you have synchronized your kernel, header files and libraries, and still can't get lsof to work, follow the steps in the answer to the "How do
I report an lsof bug"
question to report the problem to me.

8.3 Why doesn't lsof work on the RELEASE version of CURRENT?

Lsof tracks the CURRENT release of the current leading edge FreeBSD version, because my access to leading edge FreeBSD is

limited to FreeBDSD.org reference systems, all running the
CURRENT release.

Sometimes that tracking leads to changes in lsof that won't
work on an earlier RELEASE version of the current leading edge
version.

When that happens, please send e-mail to me <abe@purdue.edu>.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

8.4 Why does kvm_open() complain it can't find some file?

If lsof issues this complaint:

```
lsof: kvm_open(execfile=/boot/kernel/kernel,
corefile=/dev/mem: No such file or directory
```

Your FreeBSD system might not have a /dev/mem device. If
not, create one -- e.g., as root do:

```
# mknod /dev/mem c <major> 0
# chmod 440 /dev/mem
# chgrp kmem
/dev/mem
```

For <major> use /dev/kmem's major device number.

You may have to run kldload, too -- again as root do:

```
# kldload mem
```

8.5 FreeBSD ZFS Problems

8.5.1 Why does FreeBSD lsof report "WARNING: no ZFS support has been defined."?

Lsof issues that message when it detects a file on a ZFS file
system, but has not been built with support for ZFS. Lsof's
Configure script detects support can be added for ZFS when it
finds this file:

/usr/src/sys/contrib/opensolaris/uts/common/fs/zfs/sys/zfs_znode.h

That header file and others in the OpenSolaris files in
/usr/src enable lsof to extract information about ZFS files
from the kernel structures associated with them.

8.6 Why can't Configure create lsof_owner.h for FreeBSD 6 and above?

Lsof may report:

```
   Creating ./lockf_owner.h from /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: ./lockf_owner.h creation failed (see 00FAQ)
```

or

```
   Creating ./lockf_owner.h
from /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: ./lockf_owner.h creation failed (see 00FAQ)
```

Those messages mean that lsof's Configure script failed to create a local header file, ./lockf_owner.h, needed to use the new kernel file locking code of some versions of FreeBSD 6 and above.

The changes that implement that new locking code alter the lockf structure in <sys/lockf.h> and introduce a new structure, lockf_entry, to that header file. When Configure detects the presence of the lockf_entry definition in <sys/lockf.h>, it tries to construct the local header file, ./lockf_owner.h.

Configure has to do that because an unfortunate side effect of the new kernel file locking code is that <sys/lockf.h> doesn't contain the lockf_owner structure definition referenced in its own lockf structure. Lsof needs to access elements of that lockf_owner structure to determine if a lock belongs to the process that has a file open.

The missing lockf_owner structure definition
is in the kernel
source file, typically /usr/src/sys/kern/kern_lockf.c.
Configure tries to extract the lockf_owner structure definition from kern_lockf.c into lsof's local header file, ./lockf_owner.h. If Configure can't do that, it reports:

```
   FATAL ERROR: ./lockf_owner.h creation failed
```

If Configure can't even read kern_lockf.c, it first reports:

```
   FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
```

The work-around for this problem is to update the FreeBSD kernel /usr/src tree (e.g., do a CVSup or csup) on the system where lsof is to be built and then do a "make buildworld" followed by a "make installworld".

8.6.1 Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?

If, when compiling lsof, the compiler complains with error messages like:

```
dnode.c: In function 'get_lock_state':
dnode.c:113: error: 'struct lockf' has no member named 'lf_flags'
dnode.c:115: error: 'struct lockf' has no member named 'lf_id'
...
```

Then
lsof is being built on a system that has new kernel file locking code and lsof's Configure script failed to build a local lockf_owner.h header file with a structure definition lsof needs.

See the "Why can't Configure create lsof_owner.h for FreeBSD 6 and above?" section for more information and a work-around.

8.6.2 Why don't /usr/src/sys/sys/lockf.h and /usr/include/sys/lockf.h match?

This mismatch can cause the errors explained in the answer to the "Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?" question.

If /usr/src/sys/sys/lockf.h has been updated with a CVSup or csup, the new lockf.h won't be propagated to /usr/include/sys until the "make buildworld" and "make installworld" steps have been completed.

8.7 FreeBSD and clang

As of lsof revision 4.87, lsof may be compiled with clang.

8.7.1 Why does clang complain about VOP_FSYNC?

There is an error in the Solaris ZFS compatibility vnode.h header file with use of VOP_FSYNC before it is defined. No work-around is possible that will eliminate the clang compile-time warning message about the invalid declaration of the VOP_FSYNC function.

9.0 HP-UX Problems

9.1 What do /dev/kmem-based and PSTAT-based mean?

Lsof for HP-UX 11.0 and below uses /dev/kmem to read kernel data structures from which it gathers and reports open file information. That version of lsof is called /dev/kmem-based lsof.

Starting with HP-UX 10.10, finding definitions for the necessary kernel structures became more difficult as HP no longer distributed header files in /usr/include that defined all kernel structures. So I started "inventing" structure definitions by using Q4 to display them.

By HP-UX 11, the process of invention became extremely intensive to support. Following a patch to the ipc_s structure in early 1999, my invented definition of that structure became incorrect. Although I was able to devise a work-around test for the patch with Q4, it was clear that my
inventions were bound to cause more problems.

Discussion with HP about the patch led to my proposing that an lsof API in the HP-UX kernel was the proper solution. Much to my surprise, HP agreed. I believe Carl Davidson was the prime mover behind that decision, but I know others participated, among them Louis Huemiller, Rich Rauenzahn, and Sailu Yallapragada. I am indebted to these folks and HP for their willingness to do this work.

The API was added to the PSTAT interface in a project named PEGL, Pstat Enhancements for Glance and Lsof. Louis and Sailu did the bulk of the design and implementation work and testing began in March, 2000

HP-UX 11.11 is the first version that provides PSTAT support for lsof. HP-UX versions in between 11.0 and 11.11 -- all Beta versions as far as I can determine -- have no lsof support.

See the "PSTAT-based HP-UX lsof Questions" section for questions and answers specific to PSTAT-based HP-UX lsof. The next section, "Why doesn't
a /dev/kmem-based HP-UX lsof
compilation use -O?" covers /dev/kmem-based HP-UX lsof.

The /dev/kmem-based lsof sources may be found in the kmem subdirectory of the dialects/hpux branch of the lsof source tree. The PSTAT-based lsof sources may be found in

.../dialects/hpux/pstat.

9.2 /dev/kmem-based HP-UX lsof Questions

The sources for /dev/kmem-based lsof for HP-UX may be found
in lsof_<revision>/dialects/hpux/kmem.

Lsof's Configure shell script decides to use these sources
when it finds that the /usr/include/sys/pstat subdirectory
doesn't exist.

Lsof can be forced to use the /dev/kmem sources by setting
"/dev/kmem" in the HPUX_BASE environment variable. Consult
the Configure shell script and 00XPORTING for more information.

9.2.1 Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?

If you only have the standard (bundled) HP-UX C compiler
and haven't purchased and installed the optional one, then
you can't use cc's -O option. The HP-UX cc(1) man page
says
this:

"Options
Note that in the following list, the cc and c89 options
-A , -G , -g , -O , -p , -v , -y , +z , and +Z are
not supported by the C compiler provided as part of
the standard HP-UX operating system. They are supported
by the C compiler sold as an optional separate product."

Lsof's Configure script tries to detect what C compiler
product you have installed by examining your compiler. If
that examination reveals a standard (bundled) compiler,
lsof avoids using -O.

If the Configure compiler test fails, the C compiler will
complain that it doesn't support -O. You can suppress that
complaint with this make invocation:

```
$ make DEBUG=""
```

9.2.2 Why doesn't the /dev/kmem-based CCITT support work under 10.x?

Pasi Kaara, who originally provided the HP-UX CCITT support,
reports that it no longer works under HP-UX 10.x.
Consequently, at lsof revision 4.02 it has been disabled.

9.2.3 Why can't /dev/kmem-based lsof be compiled with

`cc -Aa` or
`gcc -ansi` under HP-UX 10.x?

Some HP-UX 10.x header files, needed by lsof, can't be compiled properly in ANSI_C mode; structure element definition and alignment problems result. The f_offset member of the file structure, for example, is incorrect.

This ANSI-C obstacle extends to using the -Aa option of the HP C compiler and the -ansi option of gcc.

9.2.4 Why does /dev/kmem-based lsof complain about no C compiler?

Lsof's Configure script looks in /bin and /usr/ccs/bin for an HP C compiler, because it needs to know if the compiler is the standard (bundled) one or the optional separate product. If it finds no compiler in either place, Configure quits after complaining:

No executable cc in /bin or /usr/ccs/bin

If you don't have a C compiler in either of these standard places, you should consider installing it. If you have gcc installed, you can use it by declaring the ``hpuxgcc'' abbreviation to lsof's Configure script.

If you have a C compiler in a non-standard location, you can use the HPUX_CCDIR[12] environment variables to name the path to it. Consult the 00XCONFIG file of the lsof distribution for more information.

9.2.5 Why does Configure complain about q4 for /dev/kmem-based lsof for HP-UX 11?

When you run Configure on an HP-UX 11 system, it may complain:

```
!!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!
Configure can't use /usr/contrib/bin/q4 to examine the ipis_s
structure.  You must do that yourself, report the result in
the HPUX_IPC_S_PATCH environment variable, then repeat the
Configure step.  Consult the Configure script's use of
/usr/contrib/bin/q4 and the 00XCONFIG file for information
on ipis_s testing and the setting of HPUX_IPC_S_PATCH.
!!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!
```

This message states that Configure cannot use q4 from /usr/contrib/bin to examine the kernel's boot image for

the ipis_s structure. Maybe q4 hasn't been installed,
or
perhaps Configure can't execute it.

Lsof needs to gather information about ipis_s to determine
if the ipis_s structure is defined in the kernel boot image,
if the ipis_s structure of the kernel boot image has an
ipis_msgsqueued member, and if the ipc_s structure of the
kernel boot image uses has an ipc_ipis member.

The ipis_s structure isn't described in any header file
HP-UX releases with HP-UX 11. It appears in the private
lsof header file .../dialects/hpux/kmem/hpux11/ipc_s.h.
Lsof gets local and remote connection addresses (IP and
port numbers) from ipc_s, so an incorrect ipc_s definition
may cause incorrect reporting of TCP/IP connection addresses.
It definitely will cause incorrect reporting on 32 bit
kernels. In any case lsof should be compiled with a correct
ipc_s definition no matter the kernel bit size, so the
Configure script always tests for it when the HP-UX version
is 11.

For lsof's Configure script to gather the necessary ipis_s
information q4
needs to be installed in /usr/contrib/bin
and the kernel boot image, /stand/vmunix, needs to have
been processed with pxdb. If either is untrue, lsof issues
the above error message, perhaps preceded by q4 messages.
(Note: lsof's use of q4 may also fail if q4 can't execute
nm -- e.g., it can't find /usr/bin/nm, or there is a
conflicting, private version of nm earlier in the path.)

If /stand/vmunix hasn't been processed by pxdb, the q4
messages will include:

    q4: (error) vmunix not pxdb'd
or
    q4: (warning) /stand/vmunix has not been processed by pxdb.

It's possible to make a suitable private copy of /stand/vmunix
for configuring lsof. That requires /opt/langtools/bin/pxdb
or the q4 version of pxdb from /usr/contrib/bin/q4pxdb.
The path to the result is supplied to the lsof Configure
script in the HPUX_BOOTFILE environment variable. Configure
still requires /usr/contrib/bin/q4.

The following sample Bourne shell commands make a private
copy of /stand/vmunix

in /tmp, process it with pxdb or
q4pxdb, and supply its path to lsof's Configure script in
HPUX_BOOTFILE.

```
   $ cp /stand/vmunix /tmp/vmunix.lsof

   $ /opt/langtools/bin/pxdb /tmp/vmunix.lsof
 or
   $ /usr/contrib/bin/q4pxdb /tmp/vmunix.lsof

   ... pxdb messages ...
   $ HPUX_BOOTFILE=/tmp/vmunix.lsof Configure -n hpux
```

It may also be necessary to use q4 outside the lsof Configure
script. In that case q4 can be to determine the state of
ipis_s and ipc_s with these q4 commands:

```
   $ /usr/contrib/bin/q4 /stand/vmunix
   ...
   q4> fields -c struct ipc_s
   ...
   q4> fields -c struct ipis_s
```

Look in the q4 output for the ipc_ipis member of the ipc_s
structure, and look in the q4 output for the ipis_s structure
for the ipis_msgsqueued member. If ipc_s has ipc_ipis but
ipis_s lacks ipis_msgsqueued, set HPUX_IPC_S_PATCH environment
variable to "1". If ipc_s has ipc_ipis and ipis_s has
ipis_msgsqueued, set HPUX_IPC_S_PATCH to "2" -- e.g.,

```
   $ HPUX_IPC_S_PATCH=1
Configure -n hpux
 or
   $ HPUX_IPC_S_PATCH=2 Configure -n hpux
```

If ipc_s has no ipc_ipis member, set HPUX_IPC_S_PATCH to
"N" -- e.g., use this Configure step:

```
   $ HPUX_IPC_S_PATCH=N Configure -n hpux
```

9.2.6 When compiling /dev/kmem-based lsof for HP-UX 11 what do the
"aCC runtime: ERROR..." messages mean?

When the lsof Makefile asks the HP-UX unbundled compiler
to load lsof, it may complain:

```
   /bin/cc -o lsof  -DHPUXV=1100 -DHASVXFS -DHPUXKERNBITS=64 \
-I/home/abe/src/lsof4/dialects/hpux/kmem/hpux11 +DD64 \
```

```
 -DHAS_IPC_S_PATCH=2 -I/home/abe/src/lsof4/dialects/hpux/kmem \
 -DLSOF_VSTR=\"B.11.00\"  -g dfile.o dmnt.o dnode.o dnode1.o \
 dnode2.o dproc.o dsock.o  dstore.o  arg.o main.o misc.o \
 node.o print.o proc.o store.o usage.o -L./lib -llsof  -lelf \
 -lnsl
   aCC runtime: ERROR: Unexpected use of shared libraries
   aCC runtime: ERROR: Read aCC manpage, +A option
   /usr/lib/nls/loc/locales.1//is_IS.iso88591
```

This is a bug in the HP-UX national
language support.
(Notice the last message with "locales" in it?) Complain
to HP -- then use this work-around before executing make:

```
   $ unset LANG
   $ make
```

9.2.7 Why doesn't /dev/kmem-based lsof for HP-UX 11 report VxFS file link counts, node numbers, and sizes correctly?

This is usually the result of running an lsof binary whose
revision number is less than 4.57 on a system that has
OnlineJFS support installed. It can also happen with lsof
4.57 binaries when the OnlineJFS support with which they
were built doesn't match the OnlineJFS status of the system
on which they are run.

The OnlineJFS status of lsof 4.57 and higher binaries can
be determined by running:

```
   $ lsof -v 2>&1 | grep HASONLINEJFS
```

If that shell pipe produces output, lsof was compiled with
OnlineJFS support enabled; no output, disabled.

If OnlineJFS is installed on an HP-UX 11 system the
/sbin/fs/vxfs/subtype executable exists and outputs "vxfs3.3"
when run.

The problem occurs
because the optional OnlineJFS support
installation doesn't update <sys/fs/vx_inode.h>. Consequently
lsof can be compiled with an incorrect definition of the
vx_inode structure and look for for link counts, node
numbers, and sizes in the wrong places in the structure.

The current response I have gotten from HP is that no
<sys/fs/vx_inode.h> update will be provided for OnlineJFS.

I've addressed this problem temporarily with a work-around
(hack) in lsof revision 4.57.

9.2.8 Why can't /dev/kmem-based lsof be built with gcc for 64 bit HP-UX 11?

When Configure is given the "hpuxgcc" abbreviation, the
HP-UX version is 11, and the kernel bit size is 64, the
lsof Configure script may abort with the messages:

```
!!!!!!!!!!!!!!!! FATAL ERROR !!!!!!!!!!!!!!!!!!

APPARENTLY GCC CANNOT BUILD 64 BIT EXECUTABLES.
A COMPILER MUST BE USED THAT CAN.  SEE 00FAQ
FOR MORE INFORMATION.
```

(This is the "more information" in 00FAQ.)

This means the Configure script compiled
a test program
with gcc the result wasn't an ELF-64 binary. Lsof tries
two gcc modes, one with no options and another with the
-mlp64 option, before it concludes gcc can't be used.

See the "How can I acquire a gcc for building lsof for 64
bit HP-UX 11?" answer for information on where you might
be able to get a gcc for HP-UX 11 that can produce ELF-64
executables.

9.2.8.1 How can I acquire a gcc for building lsof for 64 bit HP-UX 11?

Check this HP URL:

http://h21007.www2.hp.com/dspp/tech/tech_TechSoftwareDetailPage_IDX/1,1703,547,00.html

(That's one very long link; be careful you cut 'n paste it
all.)

In November 2001 that URL led to a web page whose title
was "gcc for hp-ux 11." The page offered a link for
downloading a 64 bit gcc 3.0 compiler for HP-UX 11.0 and
11i. Rich Rauenzahn of HP installed that compiler on an
HP test system he allows me to use and I successfully built
a 64 bit lsof with it.

The HP package may install the 64 bit capable gcc in
/usr/local/pa20_64/bin/gcc,

so you may have to adjust your
path or set the LSOF_CC environment variable to compensate.

9.2.9 Why does /dev/kmem-based lsof for HP-UX 11 report "unknown file system type" for some open files?

The lsof binary being used probably doesn't have support for
the VxFS file system.

To confirm that, check `lsof -v` output for "-DHASVXFS". If
it's not present, lsof doesn't have VxFS support.

You also need to establish that lsof really is complaining
about VxFS files by checking the kernel boot file for the
symbol associated with the hexadecimal address reported in the
"unknown file system type" message -- e.g., "v_op: 0x8711c8."
Use nm(1) to do that:

```
$ nm -x /stand/vmunix | grep 8711c8
```

If nm reports the symbol associated with the address is
vx_vnodeops, then lsof is complaining about an open VxFS file.

The solution in that case is to build lsof yourself (The
bundled C compiler will do it.), making sure that lsof's
Configure script detects
the presence of VxFS. Configure does
that by finding these two header files:

```
/usr/include/sys/fs/vx_hpux.h
/usr/include/sys/fs/vx_inode.h
```

If the system where you are building lsof doesn't have those
header files, but does have VxFS, you might be able to install
the header files by installing the HP JournalFS package from
the CoreOS CD -- in particular the file set JournalFS.VXFS-PRG
and its associated patch, PHKL_18543. (My thanks to Steve
Bonds for that information.)

Finally, if you find that lsof isn't complaining about VxFS
when it complains about an unknown file system type, send
e-mail to me <abe@purdue.edu> for further assistance. Make
sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

9.2.10 Why does the ANSI-C compiler complain about comments in HP-UX 11 header files?

When compiling lsof on HP-UX 11, the HP ANSI-C compiler's
pre-processor, cpp, may complain about comments in HP-UX header
files
-- e.g.,

```
   cpp: "/usr/include/sys/cdfs.h", line 232: warning 2028:
 Found comment inside comment started on line 232.
   cpp: "/usr/include/sys/cdnode.h", line 196: warning 2028:
 Found comment inside comment started on line 196.
   cpp: "/usr/include/nfs/snode.h", line 30: warning 2028:
 Found comment inside comment started on line 30
```

This is not a problem with lsof. It is a problem with the
HP-UX header files; they have non-compliant ANSI-C comment
sequences in them -- e.g.,

```
   <sys/cdfs.h>: 232
 /* struct  cdfs *cdfs_link;  /* linked list of file systems */
```

The initial "/*" is not terminated by an ending "*/" before the
appearance of a second "/*".

9.2.11 Why does dnode1.c cause the HP-UX 11 compiler to complain that <sys/fs/vx_inode.h> is missing or incorrect?

If CFLAGS in the lsof Makefile for an HP-UX 11 compilation
includes HASONLINEJFS, indicating the system has OnlineJFS
support, lsof needs the <sys/fs/vx_inode.h> header file.
Sometimes it is missing
from /usr/include/sys/fs.

<sys/fs/vx_inode.h> is a header file that must be obtained from
Veritas. If that proves impossible, please contact me via
e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

9.3 PSTAT-based HP-UX lsof Questions

The sources for PSTAT-based lsof for HP-UX may be found in
lsof_<revision>/dialects/hpux/pstat.

Lsof's Configure shell script decides to use these sources
when it finds that the /usr/include/sys/pstat subdirectory
exists.

Lsof can be forced to use the PSTAT-based sources by setting

"pstat" in the HPUX_BASE environment variable. Consult
the Configure shell script and 00XPORTING for more information.

9.3.1 Why does PSTAT-based lsof complain about pst_static and other PSTAT structures?

When lsof starts it may issue one of these fatal error messages:

```
lsof: FATAL: can't determine PSTAT static size
lsof: FATAL: can't read <n> bytes of pst_static

lsof: FATAL: pst_static doesn't contain <name>_size
lsof: FATAL: <name>_size should be <n>
```

These messages indicate that lsof's tests for the proper level of PSTAT support have failed. The structure names, given in <name>, and sizes, given in <n>, identify the support deficiency more precisely.

You may need to upgrade the PSTAT support in your kernel to be able to use PSTAT-based lsof.

9.3.2 Why does PSTAT-based lsof complain it can't read pst_* structures?

Lsof may put messages like the following in the NAME column of its output.

```
can't read cwd pst_filedetails: Permission denied
can't read mem pst_filedetails: Permission denied
can't read rtd pst_filedetails: Permission denied
can't read txt pst_filedetails: Permission denied
can't read pst_filedetails: Permission denied
can't read 3 stream structures: Permission denied
can't read pst_socket: Permission denied
```

These messages indicate that the lsof binary lacks the authority
to read the name structures for processes other
than ones belonging to the UID under which lsof is running.
Authority to read the structures of other processes is
limited to root processes -- i.e., lsof must have setuid-root
permission if it is to list open files for arbitrary
processes.

If you want to eliminate these errors, you must run lsof
as root or install it with setuid-root permission.

9.3.3 Why does PSTAT-based lsof rebuild the device cache file after each reboot?

After each HP-UX rebuild, the first time a user runs lsof it will report:

```
lsof: WARNING: device cache mismatch: /dev/tun...
lsof: WARNING: created device cache file: /<user_path>
```

This happens because the device numbers on /dev/tun* device nodes are recalculated at each reboot. When lsof detects a change in the device number of a /dev/tun* file, it rebuilds its local device cache file.

9.3.4 Why doesn't PSTAT-based lsof report TCP addresses for telnetd's open socket files?

When lsof can't report TCP addresses for telnetd's open socket files it is because an unpatched PSTAT kernel interface doesn't report the addresses to lsof.

This has been addressed in PSTAT kernel patch PHKL_24047. It is available from the HP IT Resource Center at:

```
http://itrc.hp.com
```

In the page's "maintenance / support" box select the "individual patches" link. Once at its page, select the "hp-ux" link. On that page select the "Series 800" or "Series 700" radio button and select "11.11" from the pull-down list to the right of the button. Under "search or browse the path list" select "Search by Patch IDs" from the pull down list, enter PHKL_24047 in the following text box, and select search. That should lead to information about PHKL_24047 and a link for downloading it. (You may have to log in first and you may have to create a login identity by registering before you can log in.)

Some time in March 2006 the PHKL_24047 patch was "lost" by the HP-UX networking lab. It has been "found" again in August 2006 and will be re-released as a GRO patch "some time." I don't yet know when that will be. You must contact HP to learn about the availability of the GRO patch.

9.3.5 Why does PSTAT-based lsof cause an HP-UX 11.11 kernel panic?

When PSTAT-based lsof runs on some HP-UX 11.11 kernels, the kernel may panic. Symptoms include:

Console message:

```
0xFBE000301100EF00 00000000 0000EF00 -
type 31 = legacy PA HEX chassis-code
```

/var/adm/syslog:

```
... vmunix: Trap Type 15 (Data page fault)
... vmunix:   Instruction Address (pcsq.pcoq) = 0x...
```

The panic is caused by a bug in the way PSTAT's pstat_getstream() function obtains module names from streams managed by the otsam stream driver (part of OSI Transport Services). Lsof calls pstat_getstream() when it encounters an open otsam stream file. An HP-UX 11.11 system uses otsam if otsam appears in /stand/system.

HP-UX 11.11 patch PHKL_24507 (available some time after July
15, 2001) fixes the pstat_getstream() bug. See the information in the answer to the "Why doesn't PSTAT-based lsof report TCP addresses for telnetd's open socket files?" question for information on how to obtain the patch.

9.3.6 Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?

When PSTAT-based lsof reports on processes whose current working directory (CWD) is on a loopback file system, lsof can't report the open CWD file. The reason is that the HP-UX 11.11 and above kernel's loopback file system code is not passing the CWD file ID to the kernel's pstat(2) code. Hence lsof is given no information on the lofs CWD.

The problem was first reported to me by Ermin Borovac and an internal bug report was filed with the HP-UX file system group on October 26, 2004. That report has now been answered by the patch PHKL_33200 -- s700_800 11.11 lofs cumulative patch. The HP IT Resource Center (http://itrc.hp.com) is a source for the patch.

9.3.7 Why do some swinstall packages for PSTAT-based HP-UX 11.11 packages complain about setgid and setuid bits?

First, let me explain that I do not provide lsof swinstall packages for lsof. Others provide them and they should be contacted about problems with their packages.

However, I have become aware of a problem with one package about which I have some information I can share. The problem shows up in these swinstall messages:

```
ERROR:   Unknown owner and/or group for file
  "/usr/local/bin/lsof". SUID and/or SGID bit was
  not set.
ERROR:   Failed installing fileset "lsof.lsof-RUN,r=4.73".
  Check the above output for details.
```

The swpackage SUID/SGID functionality was restricted by changes for POSIX compliance, breaking backward compatibility. The patch PHCO_27671 allows SUID/SGID for uid/gid of 0 only, as a compromise between backward compatibility and POSIX conformance.

If the setuid bit is to be set on the executable, the UID
and
GID of the executable must be 0 (zero).

9.3.8 Why won't the bundled C compiler build PSTAT-based lsof for PA-RISC HP-UX 11.23?

A PA-RISC HP-UX 11.23 bundled C compiler dated May 2005 or later will not build PSTAT-based lsof. It will deliver error messages related to the system's <gssapi/gssapi.h> header file.

There is nothing wrong with that header file or lsof. The problem is that the bundled C compiler can't cope with the gssapi.h header file.

The work-around is to use the HP ANSI C compiler. Using gcc is not a satisfactory work-around. See the answer to the "Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?" question for more information.

9.3.9 Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?

Gcc will not even compile PSTAT-based lsof revisions below 4.77 for PA-RISC HP-UX 11.23 dated May 2005 or later. It reports errors in lsof's print.c fill_portmap() function about missing members of the rpcent structure. That happens because
gcc
defines _XOPEN_SOURCE_EXTENDED which disables the definition of

the rpcent structure in <netdb.h>.

Using the HP bundled C compiler is not a viable work-around. That is explained in the answer to the "Why won't the bundled C compiler build PSTAT-based lsof for PA-RISC HP-UX 11.23?"

While an lsof revision 4.77 or higher can be compiled with gcc, the results are unreliable. Lsof will compile, but it occasionally produces segment faults when it runs. I have not been able to reproduce the failure reliably or locate a debugger that will work with the gcc-compiled lsof.

The only reliable work-around is to use the HP ANSI C compiler.

9.3.10 Why does PSTAT-based lsof complain, "FATAL: pst_stream_size should be: 672; is 72" on HP-UX 11.11 and above?

This message indicates a mismatch between the PSTAT header files used to build lsof (<sys/pstat.h> and those in the /usr/include/sys/pstat subdirectory), and those that built the running kernel.

Unfortunately the June 2008 patch set for HP-UX 11.23 creates this inconsistency, because it does not contain all the patches needed to match the kernel with the PSTAT header files. Even more serious is that the missing patches update the kernel's PSTAT support to provide TCP/UDP endpoint information to lsof from TCP/TLI streams.

The patch inconsistency comes about because, while the following patch is installed,

PHKL_36577 1.0 PM-PSTAT section 2 manpage changes

other kernel patches are not.

The PHKL_36577 patch updates the PSTAT header files and manual pages to match kernel changes that other patches with the following numbers (or patches that contain or supersede them) contain:

PHNE_36575 1.0 Cumulative STREAMS Patch
PHNE_37670 1.0 cumulative ARPA Transport patch
PHNE_37851 1.0 NFS cumulative patch

Those patches implement the kernel changes that support the

delivery of information promised in patch PHKL_36577.

The work-around is to install the missing patches.

9.4 Why
won't the HP-UX depot install?

I don't distribute lsof depots, so I can't support them.

From time to time depots prepared by various sites -- e.g.,
usually HP-UX software collection sites -- will contain errors
that cause installation of the depot to fail.

Do not contact me when this happens. Instead, contact the
administrator of the site that prepared the depot.

As should be clear from the bulk of the lsof documentation, I
do not recommend you use pre-built lsof binaries in any form.
Instead, I recommend you obtain the lsof source distribution
and build lsof yourself.

10.0 Linux

10.1 What do /dev/kmem-based and /proc-based lsof mean?

At approximately Linux 2.1.72 and exactly at lsof revision
4.23 support for Linux forks. The first fork, containing
the oldest lsof form is based on access to kernel memory
structures, and is called /dev/kmem-based lsof. A
/dev/kmem-based lsof is heavily intertwined with the Linux
kernel version, its header files,
and its system map file.
Typically a /dev/kmem-based lsof needs only setgid permission
to local all open file information.

After approximately Linux 2.1.72 and at revision 4.23 lsof
obtains all its information from the /proc file system.
That lsof is called the /proc-based lsof. A /proc-based
lsof does not read kernel memory, needs neither kernel
header files nor the system map file, and is less likely
to be affected by Linux kernel changes. However, it does
require setuid-root permission to list all open files, and
it can't report file offsets (positions).

After revision 4.52 the /dev/kmem-based Linux sources for
lsof are no longer distributed. Information about them
may be found in the 00INDEX and README files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/src

10.2 /proc-based Linux lsof Questions

10.2.1 Why doesn't /proc-based lsof report file offsets (positions)?

/proc-based lsof revisions 4.79 and above can only report file offsets (positions)
for the files of Linux kernels 2.6.22 and
above.

During its initialization /proc-based lsof tests to see if offset information can be obtained. If it cannot, lsof disables offset reporting. If the -o option was selected, lsof also issues this warning:

```
lsof: WARNING: can't report offset; disregarding -o.
```

10.2.2 Why does /proc-based lsof report "can't identify protocol" for some socket files?

/proc-based lsof may report:

```
COMMAND PID ... TYPE ... NODE NAME
pump    226 ... sock ...  309 can't identify protocol
```

This means that it can't identify the protocol (i.e., the AF_* designation) being used by the open socket file. Lsof identifies protocols by matching the node number associated with the /proc/<PID>/fd entry to the node numbers found in selected files of the /proc/net sub-directory. Currently /proc-based lsof examines these protocol files:

```
/proc/net/ax25  (untested)
/proc/net/icmp
/proc/net/ipx  (needs kernel patch)
/proc/net/netlink

/proc/net/packet
/proc/net/raw
/proc/net/raw6
/proc/net/sctp/assocs
/proc/net/sctp/eps
/proc/net/sockstat
/proc/net/sockstat6
/proc/net/tcp
```

/proc/net/tcp6
/proc/net/udp
/proc/net/udp6
/proc/net/udplite
/proc/net/udplite6
/proc/net/unix

If /proc-based lsof says it can't identify the protocol
for an open socket file, you may be able to identify the
protocol yourself by using grep to look for the specific
node number in the files of /proc/net -- e.g.,

$ grep <node_number> /proc/net/*

You may not be able to find the desired node number, because
not all kernel protocol modules fully support /proc/net
information.

If you find a matching node number in a /proc/net file that is
not currently being processed by lsof, contact me via e-mail at
<abe@purdue.edu>. I'll discuss adding support to /proc-based
lsof for the protocol of the /proc/net file with you. Make
sure "lsof" appears in the "Subject:"
line so my e-mail filter
won't classify your letter as Spam.

The code that matches node numbers of open IPX protocol
socket files to those in /proc/net/ipx requires Jonathan
Sergent's Linux 2.1.79 patch to /usr/src/linux/net/ipx/af_ipx.c.
The patch, suitable for input to Larry Wall's patch program,
may be found in the lsof distribution file:

.../dialects/linux/proc/patches/net_ipx_af_ipx.c.patch

10.2.3 Why does /proc-based lsof warn about unsupported formats?

Lsof may issue the following warning:

lsof: WARNING: unsupported format: /proc/net/<file>

if the header line of the indicated <file> in /proc/net --
ax25, ipx, raw, tcp, udp, or unix -- doesn't match what
lsof expects to find.

When the header line of a /proc/net file isn't what lsof
expects, lsof probably can't parse the rest of the file
correctly and doesn't try. As a result, lsof can't report
any NAME column information (e.g., local and remote addresses)

for socket files bound to the indicated
network protocol.

If you get this warning, please send me e-mail at <abe@purdue.edu>.
Include the contents of the file lsof claims has an unsupported
format. Make sure "lsof" appears in the "Subject:" line so my
e-mail filter won't classify your letter as Spam.

10.2.4 Why does /proc-based lsof report "(deleted)" after a path name?

The "(deleted)" notation following a path name in /proc-based
lsof's NAME column comes from the /proc/<PID>/fd/<FD> entry
for the open file. It's the Linux kernel's way of indicating
the file is open but has been unlinked (rm'd).

10.2.5 Why doesn't /proc-based lsof report full open file information
for all processes?

/proc-based lsof can only report on processes whose /proc
files it has permission to read. /proc normally grants
permission to read all its files only to root or to the
owning user ID.

Without permission to read most /proc files, lsof can only
report full information for processes belonging to the user
who is running
lsof. /proc-based lsof may be able to report
some information for all processes, depending on the
permissions of their associated /proc files, but usually
/proc-based lsof won't be able to access the files in
/proc/<PID>/fd/ that describe regular open files.

If you want /proc-based lsof to report on all processes, you
must install it with setuid-root permission.

10.2.6 Why won't Customize offer to change HASDCACHE or WARNDEVACCESS
for /proc-based lsof?

/proc-based lsof doesn't read device information from /dev
or the device cache file, so it makes no sense to change
the state of device cache processing or /dev node accessibility
warnings.

10.2.7 /proc-based lsof Linux NFS questions

10.2.7.1 Why can't lsof find files on an accessible NFS file system?

On occasion lsof may be unable to identify that an open

file is on an NFS file system. This is most likely the
result of a bug in the way the Linux kernel supplies
information to the reader of /proc/mounts (lsof) --
sometimes
that pseudo-file is truncated by the kernel.

One way to see if this is the case is to search for the
NFS file system in /proc/mounts -- e.g.,

    $ grep <NFS_file_system_mount_point> /proc/mounts

If you get no output or the third word of the output isn't
"nfs", then lsof won't consider the file system an NFS file
system.

A second test is to look at the end of /proc/mounts --
e.g.,

    $ tail /proc/mounts

If tail reports "# truncated" then /proc/mounts is incomplete
because of a Linux kernel bug. The bug is documented at:

    http://www.xss.co.at/sysinfo/mounts.html

The bug is fixed in Linux kernel 2.4.18, and possibly in
some earlier Linux kernel versions.

10.2.7.2 Why can't lsof find files on an inaccessible NFS file system?

If lsof issues this message about a Linux file system,
mounted from an NFS server:

    lsof: WARNING: can't stat() nfs file system /xxx/yyy

Then lsof won't be able to find any open files on the file
system.

That's because
of an inadequacy in the Linux /proc file
system. Its /proc/mounts file doesn't give the device
doublet (major and minor numbers) of the file system as do
many UNIX systems (e.g., Solaris). The only way lsof can
get the device doublet for a Linux file system is to call
stat(2) on the file system path, which fails if the NFS
server isn't accessible.

When lsof doesn't know the device doublet of a file system,

it can't find open files on the inaccessible file system,
because it can't match the doublets of open files to the
doublet of the inaccessible file system.

This topic is covered extensively in lsof(8) it its ALTERNATE
DEVICE NUMBERS and BLOCKS AND TIMEOUTS sections.

10.2.8 Why doesn't /proc-based Linux lsof report socket options and values, socket state flags, and TCP options and values?

The Linux /proc file system doesn't report socket options
and values, socket states, and TCP options and values to
lsof.

10.2.9 Does /proc-based Linux lsof use a device cache?

No.
The Linux /proc/<PID>/fd/* entries provide device names to
lsof via readlink(2). It is not necessary to enable device
cache processing for /proc-based Linux lsof via the Customize
script or modifications to the Linux machine.h header file.

10.2.10 Why doesn't /proc-based Linux lsof report any or all file structure values for its +fcfgGn option?

/proc-based lsof revisions 4.79 and above can only report some
file structure values for Linux kernels below 2.6.22.

When running on Linux kernels at 2.6.22 and above lsof 4.79 can
report some file flag values -- i.e., in response to the +fg or
+fG options. The flag values are obtained from the
/proc/<PID>/fdinfo/ files introduced at Linux kernel 2.6.22.

/proc-based Linux lsof tests its availability to obtain file
flag values at initialization. If values are not available,
lsof disables file flag reporting. If the flags were requested
with +fg or +fG, lsof displays this warning:

lsof: WARNING: can't report
file flags; disregarding +f.

As a special note, when Linux lsof can report flag bits, it
will not report 'R' for a read-only file. There is no
read-only flag bit O_* symbol in <fcntl.h> (or <bits/fcntl.h>)
and lsof reports only bits that are set. The absence of O_RDWR
and O_WRONLY flag bits implies the file is read-only.

10.3 Special Linux file types

10.3.1 Why is ``DEL'' reported as a Linux file type?

Lsof usually reports entries from the Linux /proc/<PID>/maps file with ``mem'' in the TYPE column. However, when lsof can't stat(2) a path in the process' ``maps'' file and the ``maps'' file entry contains ``(deleted)'', indicating the file was deleted after it had been opened, lsof reports the file type as ``DEL''.

10.3.2 Why is ``unknown'' reported as a Linux file type?

Lsof may report a Linux file's type as ``unknown'' in the TYPE column when lsof can't obtain complete stat(2) results for the file.

Usually the NAME column will contain a ``(stat: xxx)'' error message,
but that could have been suppressed with the lsof ``-w'' option.

10.4 Linux ``mem'' Entry Problems

10.4.1 What do ``path dev=xxx'' and ``path inode=yyy'' mean in the NAME column of Linux ``mem'' file types?

When the device or inode number in the process' ``maps'' file entry doesn't match the stat(2) results from the file path, lsof reports the inconsistent information from the stat(2) of the path parenthetically after the path in the NAME column in one of these forms:

(path dev=xxx) only the device number, ``xxx'', from a stat(2) of the ``maps'' file entry path differs from the ``maps'' file entry value reported in the DEVICE column.

(path inode=yyy) only the inode number, ``yyy'', from a stat(2) of the ``maps'' file entry path differs from the ``maps'' file entry value reported in the NODE column.

(path dev=xxx inode=yyy) Both device and inode numbers differ.

Lsof reports the
``maps" file device number in the DEVICE
column and the inode number in the NODE column.

When device and inode mismatches occur, lsof suppresses the reporting of link count and size. See the answer to the "Why is neither link count nor size reported for some Linux ``DEL" and ``mem" file types?" question for more information.

Device and inode inconsistencies can occur when a file at a ``maps" path is replaced after the process has started, or when a different file system with similar path names is mounted on top of the original file system.

The device inconsistency parenthetical messages can be suppressed with lsof's ``-w" option.

10.4.2 Why is neither link count nor size reported for some Linux ``DEL" and ``mem" file types?

Link count and size are not reported for some entries from the process' ``maps" file because a stat(2) of the entry file path failed or stat(2) delivered device or inode numbers that don't match the ones in the ``maps" entry.

When
the stat(2) device or inode numbers don't match those in the ``maps" file entry, it is likely that the stat(2) results don't apply to the file that was originally mapped by the process and whose path appears in the ``maps" file entry, so lsof tries to avoid reporting possibly incorrect information.

See the answer to the "What do ``path dev=xxx" and ``path inode=yyy" mean in the NAME column of Linux ``mem" file types?" for more information on how mismatched stat(2) device and inode numbers are reported.

10.5 Special Linux NAME column messages

10.5.1 What does ``(stat: xxx)" mean in the NAME column of Linux files?

When lsof tried to stat(2) the path in the NAME column, the stat(2) system call failed and produced an error message of ``xxx".

This situation usually occurs if the lsof process lacks

permission to stat(2) the path -- e.g., the lsof executable
lacks root permission, or lsof is attempting to stat(2) a path
on an NFS device mounted with the root_squash
option.

The message can be suppressed with lsof's ``-w'' option.

10.5.2 What does ``(readlink: xxx)'' mean in the NAME column of Linux files?

When lsof tried to convert the /proc/<PID>/fd path, reported in
the NAME column, to its full and more meaningful path, the
readlink(2) system call used to do the conversion failed. The
readlink(2) failure message is ``xxx''.

This situation usually occurs if the lsof process lacks
permission to readlink(2) some part of the path -- e.g., the
lsof executable lacks root permission, or lsof is attempting to
stat(2) a path on an NFS device mounted with the root_squash
option.

The message can be suppressed with lsof's ``-w'' option.

10.6 Why is ``NOFD'' reported as a Linux file type?

When lsof lacks permission to use opendir() on the fd/
subdirectory of a process' /proc/<PID> directory, it reports a
single file of the type ``NOFD'' (for no file descriptors).

Lsof reports the the /proc/<PID>/path in the NAME column,
followed
by "(opendir: xxx)", where ``xxx'' is the error
message returned by opendir().

The ``NOFD'' entry can be suppressed with lsof's ``-w'' option.

10.7 Why does Linux lsof report a NAME column value that begins with ``/proc''?

When lsof has problems processing a ``/proc/<PID>'' entry --
e.g., it can't convert the entry to a full and more meaningful
path name, or it can't access the /proc/<PID>/fd subdirectory
with opendir() -- it will report the /proc/<PID> path in the
NAME column.

10.8 Linux /proc/net/tcp* and /proc/net/udp* issues

10.8.1 Why use the Linux -X option?

If you're not interested in TCP/IP socket information for a particular use of lsof, adding the -X option will make lsof run more quickly, because -X inhibits the reading of the /proc/net/tcp* and /proc/net/udp* files. For example, you may only be interested in knowing what process has a particular file open.

When the Linux system has a large number of open TCP/IP socket files, the time savings provided
by -X can be significant.

10.8.2 Why does lsof say ``-i is useless when -X is specified"?

If -X is specified, lsof can't report much information on open TCP/IP socket files. However, lsof's -i option requests that information. Hence, the two options conflict and can't be used together.

10.8.3 Why does lsof say ``can't identify protocol (-X specified)"?

If the Linux lsof -X option is specified and an open socket file can't be identified without accessing the /proc/net/tcp* and /proc/net/udp* files, lsof will report that it can't identify the socket's protocol and that the failure may be caused by the -X specification

11.0 NetBSD Problems

11.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open NetBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

11.2 Why doesn't lsof report on open files on: file descriptor file systems; /proc file systems; 9660 (CD-ROM) file systems; MS-DOS
(floppy disk) file systems; or kernel file systems?

Lsof is not able to report on open files on certain file system if /usr/src/sys/msdosfs didn't exist when the lsof Configure script ran and lsof was made. /usr/src/sys/msdosfs contains header files lsof needs for collecting data on certain file system files.

You can tell if an lsof executable above) lacks support

for a file system if the following test of `lsof -v` produces nothing:

```
$ lsof -v 2>&1 | grep <support_enabled_definition>
```

The <support-enabled_definition> will be:

```
File System Type Definition Note
---------------- ---------- ----
File descriptor HASFDESCFS
/proc  HASPROCFS
9660  HAS9660FS
MS-DOS  HASMSDOSFS (lsof 4.61 and above)
Kernel  HASKERNFS
```

The work-around is to install /usr/src/sys, rerun the lsof Configure script, and remake lsof.

11.3 Why does lsof produce confusing results for nullfs file systems?

Consider this report from /sbin/mount:

```
/usr/home
on /home type null (local)
```

(According to /sbin/mount /usr/home is the mounted-on device and /home is the mounted-on directory.)

When lsof is asked to report on open files on /home, it will report them as files on /usr/home instead. That's an artifact of the NetBSD kernel's dynamic name lookup cache (DNLC) and the way the kernel handles nullfs mounted-on directories.

While lsof will report all open files on /home when given /home as a file system directory argument, even though reporting them as located on /usr/home, lsof will not find the same files when asked to report on all open files on /usr/home when given /usr/home as a file system device argument. That's because from the mount perspective /usr/home is equivalent to a device, but from the device perspective it is still a directory.

So, what this lsof command reports:

```
$ lsof /home
... NAME
```

... /usr/home/...

Won't be duplicated by this lsof command:

$ lsof /usr/home

Another way
to look at this confusing /home and /usr/home
example is to consider what stat(2) reports. For /home
stat(2) reports a device doublet that matches what lsof
finds in open file node structures, while the device doublet
stat(2) reports for /usr/home won't match what lsof finds.
Nor does the mode reported by stat(2) indicate a block
devices, as is the expected case.

There is no simple answer to this confusion, nor is there
even a simple explanation. Simply be aware that when
supplying file system arguments to lsof on NetBSD, use the
mounted-on directory name for a nullfs as the lsof argument,
and don't be surprised when the NAME column reports the
mounted-on device name.

11.4 NetBSD header file problems

11.4.1 Why can't the compiler find some NetBSD header files?

If the compiler's pre-processor complains it can't find some
header files when it compiles lsof source files, /usr/include
and /usr/src may not have all the header files lsof needs.

As a work-around use the
NETBSD_SYS environment variable
to specify to lsof the location of the additional header
files -- e.g.,

```
% setenv NETBSD_SYS /my_source
% ./Configure -n netbsd
```

or

```
$ NETBSD_SYS=/mys_source ./Configure -n netbsd
```

Caution: using this work-around may cause the lsof Configure
script to activate or omit different features, depending
on where it finds the header files that determine the state
of the features.

11.4.2 Why does NetBSD lsof produce incorrect output?

If the NetBSD system's kernel was built from header files that
don't match those in /usr/include -- e.g., //usr/src has the
ones from which the kernel was built -- lsof may build, but
won't produce correct output.

As a possible work-around, try directing the C compiler to
select header files from /usr/src before it selects them from
/usr/include. That can be done with the DEBUG make string --
e.g.,

```
$ make DEBUG="-I/usr/src -I/usr/include"
```

If that work-around fails, try using the LSOF_INCLUDE
and
NETBSD_SYS environment variables to swap /usr/include and
/usr/src when running the Configure script, then use the make
DEBUG string when running make -- e.g.,

```
$ LSOF_INCLUDE=/usr/src; export LSOF_INCLUDE
$ NETBSD_SYS=/usr/include; export NETBSD_SYS
$ ./Configure -n netbsd
$ make DEBUG="-I/usr/src -I/usr/include"
```

11.5 Why isn't lsof feature xxx enabled for NetBSD?

Lsof's Configure script enables NetBSD features by locating
and examining header files associated with the features,
and based on what it finds, setting compile-time definitions
in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find
appropriate values in header files, that may mean the header
file tree lsof is searching is incomplete or out of date.

Lsof normally looks for NetBSD header files in /usr/include.
It can also be directed to look in other directories --
e.g., /sys -- if told to do so with the contents of the
LSOF_INCLUDE
and NETBSD_SYS environment variables.

To determine what header file enables a missing feature,
check the NetBSD stanza in the Configure script. Then
check the locations it checks for the indicated header
files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and
and NETBSD_SYS.

12.0 NEXTSTEP and OPENSTEP Problems

12.1 Why can't lsof report on 3.1 lockf() or fcntl(F_SETLK) locks?

Lsof has code to test for locks defined with lockf() or fcntl(F_SETLK) under NEXTSTEP 3.1, but that code has never been tested. I couldn't test it, because my NEXTSTEP 3.1 lockf() and fcntl(F_SETLK) functions return "Invalid argument" every way I have tried to invoke them.

If your NEXTSTEP 3.1 system does allow you to use lockf() and fcntl(F_SETLK) and lsof doesn't report locks set with them, then the code in .../dialects/next/dnode.c probably isn't correct. Please contact me via e-mail at <abe@purdue.edu> and tell me how you got your lockf() and fcntl(F_SETLK) system
calls to work. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

12.2 Why doesn't lsof compile for NEXTSTEP with AFS?

I no longer have a NEXTSTEP test system that has AFS. Changes to lsof since I once had a test system have caused me to change the AFS code in NEXTSTEP without being able to test the changes.

If you need AFS support for NEXTSTEP and can't get it to compile, please contact me. Perhaps we can jointly fix the problems.

13.0 OpenBSD Problems

13.1 Why doesn't lsof support kernfs on my OpenBSD system?

Lsof supports the kernel file system on OpenBSD versions whose /sys/miscfs/kernfs/kernfs.h (or <miscfs/kernfs/kernfs.h> header file correctly defines the kern_target structure. The lsof Configure script's openbsd stanza checks for the presence of the structure's kt_name element and activates kernfs support for the CFLAGS -DHASKERNFS definition only when it finds kt_name.

The kernfs.h header
file is scheduled to be updated in the
OpenBSD 2.1 release, according to Kenneth Stailey, who

authored its changes.

13.2 Will lsof work on OpenBSD on non-x86-based architectures?

I've not tested lsof on an OpenBSD system that uses a
non-x86-based architecture, but I've had one report that
lsof 4.33 compiles and works on OpenBSD for the pmax
architecture (decstation 3100).

13.3 <sys/pipe.h> problems

13.3.1 Why does the compiler claim nbpg isn't defined?

When compiling lsof on some (older) OpenBSD SPARC versions,
the compiler may complain:

```
In file included from ../dlsof.h:191,
    from ../lsof.h:166,
    from fino.c:52:
/usr/include/sys/pipe.h:83: `nbpg' undeclared here
(not in a function)
/usr/include/sys/pipe.h:83: size of array `ms' has
non-integer type
```

This happens because <sys/pipe.h> uses NBPG from
<machine/param.h> to size the `ms' array, and some OpenBSD
systems define NBPG in terms of a kernel integer variable,
nbpg.

Lsof
revisions 4.46 and above have a hack to dlsof.h,
developed by Volker Borchert that avoids the compiler
problem for SPARC OpenBSD 2.3. The hack might work for
other OpenBSD SPARC versions, but hasn't been tested there.

If you want to enable the hack for your OpenBSD SPARC
version, modify this code in .../dialects/n+obsd/dlsof.h:

```
# if    defined(OPENBSDV)
#  if   OPENBSDV==2030 && defined(__sparc__)
#   if  defined(nbpg)
#undef  nbpg
#   endif       /* defined(nbpg) */
#define nbpg    4096            /* WARNING!!!  ... */
#  endif       /* OPENBSDV==2030 && defined(__sparc__) */
#include <sys/pipe.h>
#endif  /* defined(OPENBSDV) */
```

You will probably want to change the second #if test to
match your OpenBSD version. You may also want to change
what value is assigned to nbpg. See the next section,
"What value should I assign to nbpg?"

13.3.2 What value should I assign to nbpg?

If you need to enable the nbpg hack, described
in "Why does
the compiler claim nbpg isn't defined?", you may also need
to assign a value other than 4096 to nbpg. 4096 works for
the sun4c processor and should work for sun4m, but 8192
may be needed for sun4.

Check <machine/param.h> and other OpenBSD documentation to
determine the correct nbpg assignment.

13.4 Why doesn't lsof report on open MS-DOS file system (floppy
disk) files?

Lsof is not able to report on open MS-DOS file system files
if /usr/src/sys/msdosfs didn't exist when the lsof Configure
script ran and lsof was made. /usr/src/sys/msdosfs contains
header files lsof needs for collecting data on MS-DOS file
system files.

You can tell if an lsof executable (revisions 4.61 and
above) lacks MS-DOS file system support if the following
command reports nothing:

```
$ lsof -v 2>&1 | grep HASMSDOSFS
```

The work-around is to install /usr/src/sys, rerun the lsof
Configure script, and remake lsof.

13.5 Why isn't lsof feature xxx enabled for OpenBSD?

Lsof's Configure
script enables OpenBSD features by locating
and examining header files associated with the features,
and based on what if finds, setting compile-time definitions
in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find
appropriate values in header files, that may mean the header
file tree lsof is searching is incomplete or out of date.

Lsof normally looks for OpenBSD header files in /usr/include

and /sys. It can also be directed to look in other
directories if told to do so with the contents of the
LSOF_INCLUDE and NETBSD_SYS environment variables.

To determine what header file enables a missing feature,
check the OpenBSD stanza in the Configure script. Then
check the locations it checks for the indicated header
files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and
and NETBSD_SYS.

14.0 Output Problems

14.1 Why do the lsof column sizes change?

Lsof dynamically sizes its
output columns each time it runs
to make sure that each column takes the minimum space.
Column parsing -- e.g., with awk -- is possible, because
each column is guaranteed to be separated from the preceding
one by at lease one space, and no column except the last
(NAME) contains embedded spaces.

14.2 Why does the offset have ``0t' and ``0x" prefixes?

The offset value that appears in the SIZE/OFF column has
``0t' and ``0x" prefixes to distinguish it from size values
that may appear in the same column.

Normally if the offset value is less than 100,000,000 (8
digits), it appears in decimal with a ``0t' prefix; over
99,999,999, in hexadecimal with a ``0x" prefix.

A decimal offset is handy, for example, when tracking the
progress of an outbound ftp transfer. When lsof reports
on the ftp process, it will report the size of the file
being sent with its open descriptor; it will report the
progress of the transfer via the offset of the outbound
open ftp data socket descriptor.

The
``-o [n]" option may be used to specify the maximum
number of decimal digits to be printed after ``0t" before
lsof switches to the hexadecimal digits after `0x". As
already noted, the default decimal digit count is 8.

14.3 What are the values printed in the FILE_FLAG column and why is 0x<value> sometimes included?

The two comma separated lists, separated by a semicolon, printed in the FILE-FLAG column (when the "+fg" option is specified), are short-hand names or hexadecimal values for the bits lsof finds in the f_flag or f_flags member of file structures for files (the first list, the one before the semicolon), and process open files flags found in various kernel structures, often named "pofile" (the second list, the one after the semicolon).

Lsof determines the short-hand names from symbols in the <fcntl.h>, <linux/fs.h>, <sys/fcntl.h>, <sys/fcntlcom.h>, o<sys/file.h>, and <sys/user.h> header files.

See the discussion of FILE-FLAG in the OUTPUT section of
the lsof man page, and the FF_* and POF_* symbols in lsof.h for a list of the names.

Bits with no names defined for them are represented by an 0x<value> member of the comma-separated list -- a hexadecimal integer. When "+fG" is specified (instead of "+fg"), lsof will list all flag values as two hexadecimal integers, separated by a semicolon.

When "-FG" is specified to get the flags in an output field, the format defaults to hexadecimal. You can get names instead by following "-FG" with "+fg" -- e.g.,

```
$ lsof -FG +fg ...
```

However, when you precede "-FG" with "+fg" -- e.g.,

```
$ lsof +fg -FG
```

the format will be hexadecimal; order is important.

14.3.1 Why doesn't lsof display FILE_FLAG values for my dialect?

All versions of lsof except the /proc-based Linux lsof report FILE-FLAG values. Lsof can't obtain FILE-FLAG information from the Linux /proc interface.

14.4 Network Addresses

14.4.1 Why does lsof's -n option cause IPv4 addresses, mapped to

IPv6,
to be displayed in IPv6 notation?

When you use the -n option to tell lsof to display numeric network addresses, and an IPv4 address has been mapped to IPv6, lsof displays the address in IPv6 format and puts "ipv4" in the TYPE column. That combination indicates the IPv4 address has been mapped to IPv6.

For example, the IPv4 address 1.2.3.4, when mapped to an IPv6 address, will be displayed by lsof as:

[::ffff:1.2.3.4]

The enclosing brackets are lsof's signal that this is an IPv6 address. Inside the brackets is a standard IPv6 address, reported by inet_ntop(). The first two colons, signifying zeroes in the first 64 bits of the IPv6 address, and the hexadecimal ffff in the next 32 bits, indicate that the last 32 bits contains a mapped IPv4 address, which is then displayed in IPv4 dot notation.

14.5 Why does lsof output \x, ^x, or \xnn for characters sometimes?

Lsof displays only printable ASCII characters. Lsof considers a character printable if isprint(3) says it
is. If isprint(3) says a character isn't printable, the lsof may page explains:

"... Non-printable characters are printed in one of three forms: the C ``\[bfrnt]" form; the control character `^' form (e.g., ``^@"); or hexadecimal leading ``\x" form (e.g., ``\xab"). Space is non-printable in the COMMAND column (``\x20") and printable elsewhere."

14.5.1 Why is space considered a non-printable character in command names?

Space is considered an unprintable character in command names because it is sometimes possible to hide the full command name from scripts that parse ps(1) output by embedding a space in the name.

14.6 Why doesn't lsof print all the characters of a command name?

By default lsof prints the first nine characters of the
names of commands associated with processes. If more
characters are required, the "w" value of the "+c w" option
may be used to specify a larger width.

If "w" is zero ('0') lsof will print all
characters of all
command names up to the limit of the number of characters
supplied by the particular UNIX dialect. When reporting
command names, lsof replaces non-printable characters as
discussed in the answer to " Why does lsof output \x, ^x, or
\xnn for characters sometimes?"

See the answer to the "Why is space considered a non-printable
character in command names?" question for an explanation of why
spaces are replaced by the ``\x20" representation in command
names.

The number of command name characters supplied to lsof by UNIX
dialects in files and structures varies by dialect. For
example, Linux 2.4.27 supplies lsof the first 15 characters of
command names and Solaris 9 supplies 16. Thus, even if "w" is
zero ('0'), lsof can't report more characters for command names
on those two UNIX dialects than they provide lsof.

14.7 Why does lsof reject some -c command names, saying their lengths
are "> what system provides (nn)"?

The command name length that a specific
system provides varies
from dialect to dialect. As noted in the answer to the "Why
doesn't lsof print all the characters of a command name?"
question, Linux and Solaris provide a limited number of command
name characters.

When more characters are specified in the parameter to the -c
option, lsof considers it an error and issues a fatal error
message -- e.g.,

```
lsof: "-c xxxxyyyy" length (8) > what system provides (7)
```

The only work-around is to specify no more characters to -c
that the system provides to lsof.

14.8 Why does lsof sometimes print TYPE numbers instead of names?

When lsof can't convert a type number to a name for printing in
the TYPE column, it will report the number as four octets.

14.9 Marker line format problems

14.9.1 Why won't lsof accept a marker line format?

Lsof's Configure script must find the localtime(3) and strftime(3) functions in the dialect's C library in order to enable support for marker line formats.

Check the output of lsof's -v option for the presence of -DHAS_STRFTIME in the compiler flags. If it isn't there, Configure didn't find the necessary two C library functions.

If you think lsof should have found the functions, make a copy of the C test program in the Configure script that it uses to find the functions. Then use the copy, or a more informative modification of it, to learn why Configure can't find the functions. You can find that program by searching for strftime.

14.9.2 Why does lsof reject the NL (%n) marker line format?

When repeat mode and field output (with -F) have both been specified, lsof won't allow new line (NL) formats to be specified with ``%n''. That's because the marker line is always guaranteed to be a single line.

There is no work-around to this restriction.

14.10 How are protocol state name exclusion and inclusion used?

Protocol state name inclusion and exclusion with the ``-s p:s'' option and its arguments have some issues to consider. Note: the ``-s p:s'' option is only available when the help output, obtained with -h or -?, shows it; it was a recent addition to lsof and is supported only on dialects where it could be tested.

First, there is the problem of determining what state names, if any, the dialect produces. Try running this lsof command to find them:

```
$ lsof -i
```

Knowing the state names of interest, the next problem is to decide on the lsof options and their parameters that will

produce the desired output. Here some examples are probably
the most useful.

To list only TCP socket files in LISTEN and CLOSE_WAIT states,
use:

```
   $ lsof -itcp -stcp:listen,close_wait
```
or
```
   $ lsof -iTCP -sTCP:LISTEN,CLOSE_WAIT
```

Case isn't important to lsof in protocol and state names.

To exclude TCP socket files in CLOSE_WAIT state, use:

```
   $ lsof -itcp -stcp:^close_wait
```

Note the `^' preceding close_wait; it selects exclusion. You
can mix included and excluded names in a comma separated list,
but you may not
include and exclude the same name for the same
protocol.

To list TCP files in LISTEN state and UDP files in Idle state,
use:

```
   $ lsof -i -stcp:listen -sudp:idle
```

Note: if you don't accompany the ``-s p:s" list option and
arggument with the -i option, lsof will list all other regular
files, while applying the specified inclusion and exclusion
specifications to network files. Generally, then, you want to
use -i with -s.

14.10.1 Why doesn't my dialect support state name exclusion and inclusion?

When state name inclusion and exclusion was added, I had access
to test systems for AIX, Darwin, FreeBSD, Linux, PSTAT-based
HP-UX and Solaris.

Therefore, I was unable to add and test the support to any other
UNIX dialects.

If a dialect has the support, then the HASTCPUDPSTATE definition
in its machine.h header file will be active; if not, it will be
absent or commented out.

If your dialect doesn't have the support and you want it added,
you will have to provide me Internet

access to a test host, where
I can compile lsof and have the credentials to test the changes
the support requires. If that's possible for you, please contact
me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in
the "Subject:" line so my e-mail filter won't classify your letter
as Spam.

15.0 Pyramid Version Problems

15.0.5 Statement of deprecation

As of lsof revision 4.52 support for all Pyramid versions has
been dropped. Contact me via e-mail at <abe@purdue.edu> if you
are interested in obtaining the last lsof Pyramid distribution.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

16.0 SCO Problems

16.1 SCO OpenServer Problems

16.1.1 How can I avoid segmentation faults when compiling lsof?

If you have an older SCO OpenServer compiler, it may get
a segmentation fault when compiling some lsof modules.
That appears to happen because of the -Ox optimization
action requested in the lsof Makefile.

Try
changing -Ox to -O with this make invocation:

```
$ make DEBUG=-O
```

Bela Lubkin supplied this tip and Steve Williams verified
it.

16.1.2 Where is libsocket.a?

If you compile lsof and the loader says it can't find the
socket library, libsocket.a, called by the -lsocket option
in the lsof compile flags, you probably are running an SCO
OpenServer release earlier than 5.0 and don't have the
TCP/IP Development System package installed.

You may have the necessary header files, because you have
the TCP/IP run-time package installed, but if you don't

have the TCP/IP Development System package installed, you won't have libsocket.a.

Your choices are to install the TCP/IP Development System package or upgrade to OpenServer Release 5.0. You will find libsocket.a in 5.0 -- you'll find all the libraries and header files there, in fact -- and you can use gcc to compile lsof if you don't want to install the 5.0 Development System package.

16.1.3 Why do I get "warning C4200" messages when I compile lsof?

When you compile lsof under OSR 3.2v4.2 (and perhaps under earlier versions as well), you may get many compiler warning messages of the form:

```
node.c(183) : warning C4200: previous declarator is not
compatible with default argument promotion
```

In my opinion this is a bug in the OSR compiler. Because the compiler cannot handle full ANSI-C prototypes, it assumes default types for function parameters as it encounters untyped in a function prototype -- e.g., in this function declaration from node.c,

```
readrnode(ra, r)
KA_T ra;
struct rnode *r;
{
...
```

the compiler assigns default int types to the ra and r arguments.

Then, when the compiler encounters the fully typed parameters after the function skeleton and sees parameters with types that don't match the assumptions it previously made, it whines about its own assumptions.

You can ignore these messages.

16.2 SCO|Caldera UnixWare Problems

16.2.1 Why doesn't lsof compile on my UnixWare 7.1.1 or above system?

When you Configure lsof with the "uw" abbreviation and try
to compile it for UnixWare 7.1.1, you may get compiler
error messages like this:

```
   UX:acomp: ERROR: "dproc.c", line 98:
 undefined struct/union member: p_pgidp
```

This suggest that you probably have a non-stop cluster
UnixWare 7.1.1 system. Its <sys/proc.h> header file differs
from the one on the system where I did the lsof port to
UnixWare 7.1.1. I currently don't have access to a non-stop
cluster system to be able to develop changes to lsof that
would make it compile and work there.

If you have a non-stop cluster UnixWare 7.1.1 system, want lsof
for it, and can offer me a test account on the system, please
contact me via e-mail at <abe@purdue.edu>. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't
classify your letter as Spam.

If you have a system with nsc_cfs and can offer me a test
account on it, please contact me via e-mail
at <abe@purdue.edu>.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

16.2.2 Why does lsof complain about node_self() on my UnixWare
7.1.1 or above system?

If lsof exits immediately after issuing this message:

```
   can't identify process NSC node; node_self(): <message>
```

It means that lsof has been built to run on a NonStop
Cluster (NSC) UnixWare 7.1.1 or higher system and can't
get the number of the node on which it is running. Lsof
uses the node number to determine the path to the kernel
boot file.

You can tell if lsof has been built for NSC by looking for
"-DHAS_UW_NSC" in lsof's "-v" option output.

If the system on which you're trying to run lsof isn't
running an NSC kernel, you will need to build a non-NSC
lsof.

16.2.3 Why does UnixWare 7.1.1 or above complain about -lcluster,
node_self(), or libcluster.so?

When you build, compile, and load lsof for UnixWare 7.1.1 and above, ld may complain that it can't find the -lcluster library or that the node_self symbol is undefined. When you try to run an existing lsof binary it may complain that libcluster.so can't be found.

These messages mean the tests made by Configure on your system led it to believe your system is running a NonStop Cluster (NSC) kernel, or the lsof binary you're trying to use was built on a NonStop Cluster system. If an lsof binary was built for NSC, this shell command produces output:

```
$ strings <lsof_binary> | grep HAS_UW_NSC
```

If that's not the case, and you can rebuild lsof, set the UW_HAS_NSC environment variable to "N" and do this:

```
$ Configure -n clean
$ UW_HAS_NSC=N
$ export UW_HAS_NSC
$ Configure -n uw
$ make
```

You can also edit Makefile and lib/Makefile. Remove -DHAS_UW_NSC from the CFGF strings. Remove -lcluster from the CFGL strings. Then run make again.

If you have an existing NSC lsof binary and you want one for a non-NSC system, you will have to build lsof yourself on the system where you want to use it. (That's always a good idea anyway.)

16.2.4 Why does UnixWare 7.1.1 or above lsof complain it can't read the kernel name list?

If lsof complains:

```
can't read kernel name list from <path>
```

It means that lsof can't find the booted kernel image file at <path>. On NonStop Cluster (NSC) UnixWare 7.1.1 or higher systems lsof determines the booted file path by examining this file:

/stand/`node_self`/boot

If examining that file doesn't lead to an NSC path, lsof
uses:

/stand/1/unix

On non-NSC systems lsof expects the booted kernel image to
be in /stand/unix.

If your booted kernel image is in a different place, use
lsof's "-k <path>" option to specify its path.

16.2.5 Why doesn't lsof report link count, node number, and size for some UnixWare 7.1.1 or above CFS files?

Lsof reports link count, node number, and size for open
CFS files as recorded in their kernel node structure's
cached attributes. Sometimes
not all attributes are cached
on the node where lsof runs, so lsof cannot report them.

16.2.6 Why doesn't lsof report open files on all UnixWare 7.1.1 NonStop Cluster (NSC) nodes?

Lsof can only report on files open on the node on which it
runs, because the information lsof reports comes from the
private kernel memory of the node. This may mean that
asking lsof to find a specific open file, or use of a
specific Internet address or port, may not report all open
instances on nodes other than the one used to run lsof.

You can use the NSC onnode(1) command to run lsof on specific
nodes, or the onall(1) command to run lsof on all nodes --
e.g.,

```
$ onall lsof [options] 2>&1 | less
or
$ onnode node-number lsof [options] 2>&1 | less
```

Note that, when lsof is run all nodes, the path name
component assembly results it reports in its NAME column
may vary, because the dynamic name cache from which lsof
gets the components is private to the kernel of each node.

Also

note the use of shell redirection in the examples to
merge the standard error file information from onnode and
onall with lsof's standard output file output. That will
put the onnode and onall node announcements in proper
sequence with lsof's output.

16.2.7 Why doesn't lsof report the UnixWare 7.1.1 NonStop Cluster (NSC) node a process is using?

To induce lsof to report the node on which a process runs
would be a significant, non-standard modification to lsof.
It has much wider implications than merely the printing of
a number in an output column. I'm not currently (April
2001) prepared to undertake such a modification.

If you want node-specific NSC information about open files,
run lsof under the control of onall(1) or onnode(1).

```
   $ onall lsof [options] 2>&1 | less
or
   $ onnode node-number lsof [options] 2>&1 | less
```

16.2.8 Why does the compiler complain about missing UnixWare 2.1[.x] header files?

SCO|Caldera didn't ship the following header files
with
UnixWare 2.1 through 2.1.3:

```
   <fs/proc/prdata.h>
   <fs/procfs/prdata.h>
   <sys/fs/fifonode.h>
   <sys/fs/namenode.h>
```

Lsof needs those header files for its compilation. Contact
SCO|Caldera to get copies of those header files.

If you can't get the header files from SCO|Caldera, please
contact me via e-mail at <abe@purdue.edu>. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't
classify your letter as Spam.

17.0 Sun Problems

17.0.5 Statement of deprecation

Lsof support for SunOS 4.1.x was last tested at revision 4.51.

Contact me via e-mail at <abe@purdue.edu> if you're interested in
obtaining it. Make sure "lsof" appears in the "Subject:" line so
my e-mail filter won't classify your letter as Spam.

17.1 My Sun gcc-compiled lsof doesn't work -- why?

Gcc can be used to build lsof successfully. However, an
improperly installed Sun gcc compiler will usually not
produce a working lsof.

If your Sun gcc-compiled lsof doesn't report
anything, or
reports ``can't read proc table,'' or gcc refuses to compile
lsof without error, check that the gcc step that "fixes"
Sun header files was run on the system where you're using
gcc to compile lsof. As an alternative, if you have the
SunPro C 5.0 compiler or later available, use it to compile
lsof -- e.g., use the solariscc Configure abbreviations.

17.2 How can I make lsof compile with gcc under Solaris 2.[456],
2.5.1, 7, 8 or 9?

Presuming your gcc-specific header files are wrong for
Solaris, edit the lsof Configure-generated Makefile and
lib/Makefile and make this change:

```
 CFGF=   -Dsolaris=20400 ...
to
 CFGF=   -Dsolaris=20400 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20500 ...
to
 CFGF=   -Dsolaris=20500 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20501 ...
to
 CFGF=   -Dsolaris=20501 -D__STDC__=0 -I/usr/include ...
```

This is only a temporary work-around. You really should
instruct gcc to to update your
gcc-specific header files
or install a recent gcc (e.g., 3.2), which has no need for
private copies of Solaris include files.

17.3 Why does Solaris Sun C complain about system header files?

You're probably trying to use /usr/ucb/cc if you get compiler complaints like:

```
cc -O -Dsun -Dsolaris=20300 ...
"/usr/include/sys/machsig.h", line 81: macro BUS_OBJERR
redefines previous macro at "/usr/ucbinclude/sys/signal.h",
line 444
```

Note the reference to "/usr/ucbinclude/sys/signal.h". It reveals that the BSD Compatibility Package C compiler is in use. Lsof requires the ANSI C version of the Solaris C compiler, usually found in /usr/opt/bin/cc or /opt/SUNWspro/bin/cc.

Try adding a CC string to the lsof Makefile that points to the Sun ANSI C version of the Sun C compiler -- e.g.,

```
CC= /usr/opt/bin/cc
```

or

```
CC= /opt/SUNWspro/bin/cc.
```

17.4 Why doesn't lsof work under my Solaris 2.4 system?

If lsof doesn't work under your Solaris 2.4 system -- e.g., it produces no output, little output, or the output is missing command names or file descriptors -- you may have a pair of conflicting Sun patches installed.

Solaris patch 101945-32 installs a kernel that was built with a <sys/auxv.h> header file whose NUM_*_VECTORS definitions don't match the ones in the <sys/auxv.h> updated by Solaris patch 102303-02.

NUM_*_VECTORS in the kernel of patch 101945-32 are smaller than the ones in the <sys/auxv.h> of patch 102303-02. The consequence is that when lsof is compiled with the <sys/auxv.h> whose NUM_*_VECTORS definitions are larger than the ones used to compile the patched kernel, lsof's user structure does not align with the one that the kernel employs.

If you have these two patches installed, contact Sun and complain about the mis-match.

You may be able to work around the problem by editing /usr/include/sys/auxv.h to have the following NUM_*_VECTORS

definitions:

```
    #define NUM_GEN_VECTORS 4
    #define NUM_SUN_VECTORS
8
```

The Configure script issues a prominent WARNING that you should try the work-around.

I thank Leif Hedstrom for identifying the offending patches.

17.5 Where are the Solaris header files?

If you try to compile lsof under Solaris and get a compiler complaint that it can't find system header files, perhaps you forgot to add the header file package, SUNWhea.

17.6 Where is the Solaris /usr/src/uts/<architecture>/sys/machparam.h?

When you try to Configure lsof for Solaris 2.[23456], 2.5.1, and 7 -- e.g., on a `uname -m` == sun4m system -- Configure complains:

```
    grep: /usr/src/uts/sun4m/sys/machparam.h:
  No such file or directory
    grep: /usr/src/uts/sun4m/sys/machparam.h:
  No such file or directory
```

And when you try to compile the configured lsof, cc or gcc complains:

```
    dproc.c:530: `KERNELBASE' undeclared (first use this function)
```

The explanation is that somehow your Solaris system doesn't have the header files in /usr/src/uts it should have. Perhaps someone
removed the directory to save space. Perhaps you're using a gcc installation, copied from another system. In any event, you will have to load the header files from the SUNWhea package of your Solaris distribution.

KERNELBASE is an important symbol to lsof -- it keeps lsof from sending an illegal kernel value to kvm_read() where a segmentation violation might result (a bug in the kvm library). Lsof can get illegal kernel values because it reads kernel values slowly with kvm_read() calls that the kernel is changing rapidly.

Lsof doesn't need KERNELBASE at Solaris 2.5 and above,
because it has a KERNELBASE value whose address lsof can
find with /dev/ksyms and whose value it can read with
kvm_read(). Under Solaris 2.5 /usr/src/uts has moved to
/usr/platform.

17.7 Why does Solaris lsof say ``can't read proc table''?

When lsof collects data on processes, using the kvm_*()
functions to scan the kernel's proc structure table, it
checks to make sure it has
identified a reasonable number
of them -- a minimum of three. When lsof can't identify
three processes during a scan, it repeats the scan.

When five scans fail to yield three processes, lsof issues
the fatal message:

lsof: can't read proc table

and exits.

Usually lsof fails to identify three processes during a
scan because its idea of the form of the proc structure
differs from that being used by the kernel. Since the proc
structure is defined in <sys/proc.h> and other /usr/include
header files, the root cause of a proc structure discrepancy
usually can be found in the composition of /usr/include.

One common way that /usr/include header files can be
incorrect is that gcc was used to compile lsof, gcc used
its special (i.e., "fixed") header files instead of the
ones in /usr/include, and the special gcc header files
weren't updated when Solaris was. Answers to these questions:

My Sun gcc-compiled lsof doesn't work -- why?

How can I make lsof compile
with gcc under Solaris 2.[456],
2.5.1, 7, 8 or 9?

Why does Solaris Sun C complain about system header files?

discuss the gcc header file problem and offer suggestions
on how to fix it or work around it.

It may also be that you are trying to run a version of lsof
that was compiled on an older version of Solaris. For

example, an lsof executable, compiled for Solaris 2.4, will
produce the ``can't read proc table'' message if you try
to run it under Solaris 2.5. If you have compiled lsof
under Solaris 2.5 and it still won't work, see if the header
files in /usr/include have been updated to 2.5, or still
represent a previous version of Solaris.

Another source of header file discrepancies to consider is
the Solaris patch level and whether a binary kernel patch
was not matched with a corresponding header file update.
See the "Why doesn't lsof work under my Solaris 2.4 system?"
question for an example of one in Solaris 2.4 -- there may
be other such patch conflicts
I don't know about.

17.8 Why does Solaris lsof complain about a bad cached clone device?

When lsof revisions below 4.04 have been run on a Solaris
system and have been allowed to create a device cache file,
the running of revisions 4.04 and above on the same systems
may produce this complaint:

```
lsof: bad cached clone device: ...
lsof: WARNING: created device cache file: ...
```

This is the result of a change in the device cache file
that took place at lsof revision 4.04. The change introduced
a node number into the clone device lines of the device
cache file and was done in such a way that lsof could detect
device cache files whose clone lines don't have node numbers
(lines created by previous lsof revisions) and recognize
the need to regenerate the device cache file.

17.9 Why doesn't Solaris make generate .o files?

Solaris /usr/ccs/bin/make won't generate .o files from .c
files if /usr/share/lib/make/make.rules is missing. It
may be found in and installed
from the SUNWsport package.

17.10 Why does lsof report some Solaris 2.3 and 2.4 lock types as `N'?

For Solaris 2.3 with patch P101318 installed at level 45
or above, and for all versions of Solaris 2.4, NFS locks
are represented by a NFS-specific kernel lock structure
that sometimes lacks a read or write lock type indicator.
When lsof encounters such a lock structure, it reports the
lock type as `N'.

17.11 Why does lsof Configure say "WARNING: no cc in ..."?

When lsof's Configure script is executed with the solariscc abbreviation it tries to make sure it's using the Sun C compiler and not the UCB substitute from /usr/ucb/cc. Thus, it looks for cc in the "standard" Sun compiler location, /opt/SUNWspro/bin.

If Configure can't find cc there, it issues the warning:

```
lsof: WARNING: no cc in /opt/SUNWspro/bin;
using cc without path.
```

and uses cc for the compiler name, letting the shell find cc with its PATH environment variable.

You can tell Configure where to find your cc with the SOLARIS_CCDIR cross-configuration environment variable. (See 00XCONFIG for more information on SOLARIS_CCDIR). For example, use this Configure shell command:

```
SOLARIS_CCDIR=/usr/special/bin Configure -n solariscc
```

(SOLARIS_CCDIR should be the full path to the directory containing your cc.)

17.12 Solaris 7, 8 and 9 Problems

17.12.1 Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?

Solaris 7, 8 and 9 kernels come in two flavors, 32 and 64 bit. 64 bit kernels run on machines that support the SPARC v9 instruction set architecture. Separate executables for some programs, -- e.g., ones using libkvm like lsof -- must be built for 32 and 64 bit kernels.

Previous Sun (e.g., SC4.0) and earlier gcc compilers will build lsof for 32 bit kernels, but they won't build it for 64 bit kernels. Compilers that will build lsof for 64 bit Solaris 7, 8 and 9 kernels are the Sun WorkShop Compilers C 5.0 and above, and recent gcc versions, e.g., 3.2.

When given the ``-xarch=v9'' flag, the C 5.0 compiler and above, and associated loader and 64 bit libraries will

build a 64 bit lsof executable; when given the "-m64" or
"-mcpu=v9" (deprecated) flags, an appropriate gcc compiler
will build a 64 bit lsof executable.

When the lsof Configure script detects a 64 bit kernel is
in use (e.g., by executing `/bin/isainfo -kv`), and when
it finds that the specified compiler is inappropriate,
it complains with these messages:

For gcc:

```
   "!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
   "!                                           !"
   "! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT  !"
   "! THIS GCC DOESN'T SUPPORT THE BUILDING OF 64 BIT       !"
   "! SOLARIS EXECUTABLES.  LSOF WILL BE CONFIGURED FOR A   !"
   "! 32 BIT echo KERNEL.                                   !"
   "!                                           !"
   "!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
```

For
Sun C:

```
 !!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
 !                                           !
 ! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT    |
 ! THE VERSION OF SUN C AVAILABLE DOESN'T SUPPORT THE      !
 ! -xarch=v9 FLAG.  LSOF WILL BE CONFIGURED FOR A 32 BIT   !
 ! KERNEL.                                       !
 !                                           !
 !!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
```

17.12.2 Why does Solaris 7, 8 or 9 lsof say "FATAL: lsof was compiled
for..."?

Solaris 7, 8 or 9 lsof may say:

```
   lsof: FATAL: lsof was compiled for a xx bit kernel,
   but this machine has booted a yy bit kernel.

   Where: xx = 32 or 64
   yy = 64 or 32

   (xx and yy won't match.)
```

This message indicates that lsof was compiled for one size
kernel and is being asked to execute on a different size
one. That's not possible for programs

like lsof that use
libkvm.

Depending on the instruction sets for which you need Solaris
7, 8 or 9 lsof, you may need two or more versions of lsof,
compiled for each kernel size, installed for use with
/usr/lib/isaexec. See the "How do I install lsof for
Solaris 7, 8 or 9?" section of this document for more
information on that.

17.12.3 How do I build lsof for a 64 bit Solaris kernel under a 32 bit Solaris kernel?

If your Solaris system has an appropriate compiler (e.g.,
WorkShop Compilers C 5.0 and above, or a recent gcc like
3.2) and the 64 bit libraries have been installed, you can
force lsof's Configure script to build a 64 bit version of
lsof with:

```
$ SOLARIS_KERNBITS=64 Configure -n solariscc
```

The SOLARIS_KERNBITS environment variable is part of the
lsof cross-configuration support, described in the 00XCONFIG
file of the lsof distribution.

17.12.4 How do I install lsof for Solaris 7, 8 or 9?

If you are installing lsof where it will be used only under
the
bit size kernel for which it was built, no special
installation is required.

If, however, you are installing different versions of lsof
for different bit sizes -- e.g., for use on a 64 bit NFS
server and from its 32 bit clients -- you should read the
man page for isaexec(3C) and install lsof according to its
instructions.

The executable at the directory where lsof is to be found
should be a hard link to /usr/lib/isaexec or a copy of it.
In the directory there must be instruction architecture
subdirectories -- e.g., .../sparc/ and .../sparcv9/. The
lsof for 64 bit size kernels is installed in the .../sparcv9/
subdirectory; the one for 32 bit size kernels, in .../sparc/.

For example, if you're installing 32 and 64 bit lsof
executables in /usr/local/etc, you would:

```
# cd /usr/local/etc
# ln /usr/lib/isaexec lsof
# mkdir sparc sparcv9
# install the 32 bit lsof as sparc/lsof
# install the 64 bit lsof as sparcv9/lsof
# chmod, chown, and chgrp sparc/lsof and

sparcv9/lsof appropriately
```

Lsof permissions and ownerships are the same whether one or more lsof executables are being installed, with or without the /usr/lib/isaexec hard link.

17.12.5 Why does my Solaris 7, 8 or 9 system say it cannot execute lsof?

When you attempt to execute lsof, your Solaris 7, 8 or 9 shell may complain:

```
ksh: ./lsof: cannot execute
```

If the lsof executable exists and has the proper execution permissions, this error may be the result of trying to execute an lsof, built for a 64 bit kernel, on a 32 bit kernel.

This will tell you about the lsof executable:

```
$ file lsof
lsof: ELF 64-bit MSB executable SPARCV9 Version 1,
dynamically linked, not stripped
```

The "64-bit" notation indicates the binary was built for a 64 bit kernel. To see the running kernel bit size, use this command:

```
$ isainfo -kv
32-bit sparc kernel modules
```

The "32-bit" notation indicates a 32 bit kernel has been booted.

The only work-around is to obtain, or Configure and make, an lsof for the appropriate kernel bit size. If you Configure and make lsof on the kernel where you wish to run it the proper compiler, the lsof Configure step will generate Makefiles that can be used with make to build an

appropriate lsof executable.

To compile a 64 bit lsof, you must have an appropriate compiler -- i.e., Sun WorkShop Compilers C 5.0 or higher or a recent gcc like 3.2.

17.12.6 What gcc will produce 64 bit Solaris 7, 8 and 9 executables?
8 and 9 executables?

Properly built and installed recent gcc versions -- e.g., 3.2 -- will build lsof for 64 bit Solaris kernels.

If you update your gcc version to 3.2 or later, make sure the private gcc header files become current -- i.e., clear out any private header files from a previous gcc or Solaris installation before installing the new ones, or build to a new --prefix root and replace the old root with it after the build and installation are complete.

17.12.7 Why does lsof on my Solaris 7, 8 or 9 system say, "can't read namelist from /dev/ksyms?"

You're probably trying to use an lsof executable built for an earlier Solaris release on a 64 bit Solaris 7, 8 or 9 kernel. The output from `lsof -v` will tell you the build environment of your lsof executable. You should also have gotten a warning message that lsof is compiled for a different Solaris version than the one under which it is running -- something like this:

```
lsof: WARNING: compiled for Solaris release X; this is Y
```

You need to build lsof on the system where you want to use it. For 64 bit Solaris 7, 8 and 9 you need a compiler that can generate 64 bit Solaris executables -- e.g., the Sun Workshop 5 C compiler or later, or a recent gcc version like 3.2. See the "Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?" section and the ones following it for a discussion of building lsof for 64 bit Solaris 7, 8 or 9.

17.13 Solaris and COMMON

17.13.1 What does COMMON mean in the NAME column for a Solaris VCHR file?

When lsof puts COMMON or (COMMON) in the NAME column of a
Solaris VCHR file, it means that the file is handled by
the special file system functions of the kernel through a
common vnode.

17.13.2 Why does a COMMON Solaris VCHR file sometimes seem to have an incorrect minor device number?

When lsof reports on an open file in a Solaris special file
system that uses a COMMON vnode, and the file is a VCHR
file, lsof tries to locate the associated device node by
looking for matches on the major and minor device numbers
first.

If no major and minor match results, lsof then looks for
a match on pseudo and clone device files. (See /devices/pseudo.)
Those device nodes are matched specially by either their
major or minor device numbers, but not both. Hence, when
lsof finds a match under those special conditions, it may
report a value in its output DEVICE column that differs
from one of the major and minor numbers of the device
node.

Here's an example from a sun4m Solaris 7 system:

```
$ ls -li /devices/pseudo/pm@0:pm
151261 crw-rw-rw-   1 root     sys      117,  0 ...
$ lsof /devices/pseudo/pm@0:pm
COMMAND ... DEVICE ...   NODE NAME
powerd       117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
```

Note that the DEVICE value for the file with (COMMON) in
its name field has a different minor device number (1) from
what ls reports (0), while the DEVICE value for the file
without (COMMON) matches the ls output exactly. Both match
on the major device number, 117. The minor device number
mis-match is a result of the way the Solaris kernel handles
special file system common vnodes, and it's the reason lsof
puts (COMMON) after the name to signal that a mis-match is
possible.

17.14 Why don't lsof and Solaris pfiles reports always match?

/usr/proc/bin/pfiles for Solaris 2.6, 7, 8, and 9 also
reports information on open
files for processes. Sometimes
the information it reports differs from what lsof reports.

There are several reasons why this might be true. First, because pfiles is a Sun product, based on Sun kernel features, its developers have a better chance of knowing exactly how open file information is organized. I sometimes have to guess at how kernel file structure linkages are constructed by gleaning hints from header files.

Second, lsof is aimed at providing information, specifically device and node numbers, that can be used to identify named file system objects -- i.e., path names. Thus, lsof tries to make sure its device and node numbers match those reported by stat(2). Pfiles doesn't always report numbers that match stat(2) -- e.g., for files using clone and pseudo devices via common vnodes like the nlist() /dev/ksyms usage.

Here's the Solaris 7 COMMON VCHR example again with additional pfiles output:

```
   $ ls -li /devices/pseudo/pm@0:pm
   151261 crw-rw-rw-
 1 root     sys      117,  0 ...
   $ lsof /devices/pseudo/pm@0:pm
   vic1: 10 = lsof /dev/pm
   COMMAND ... DEVICE ...   NODE NAME
   powerd  ...  117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
   Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
   $ pfiles ...
   0: S_IFCHR ... dev:32,24 ino:61945 ... rdev:117,1
   ...
   14: S_IFCHR ... dev:32,24 ino:151261 ... rdev:117,0
```

Note that the NODE number, reported by lsof, matches what ls(1) and stat(2) report, while the ino value pfiles reports doesn't. Lsof also indicates with the (COMMON) notation that the DEVICE number is a pseudo one, derived from the character device's value. The lsof DEVICE value matches the pfiles rdev value, correct behavior for a character device, but pfiles gives no sign that it's not possible to find that character device number in /devices with ls(1) or stat(2).

17.15 Why does lsof say, "kvm_open(namelist=default, core=default): Permission denied?"

Lsof needs permission to read from the /dev/kmem and /dev/mem memory devices. Access to them is opened via a call to

the kvm_open() library function and it reports the indicated message.

You must give lsof permission to read the memory devices. The super user can almost always do that, but other lsof users can do it if some group -- e.g., sys -- has permission to read the memory devices, and the lsof binary is installed with the group's ownership and with the setgid permission bit enabled.

17.16 Why is lsof slow on my busy Solaris UFS file system?

Lsof may be slow on a busy Solaris UFS file system when UFS logging has been enabled with the "logging" mount option. That option can significantly increase disk operations under certain conditions -- e.g., when a lot of files are accessed quickly.

When only the "logging" option is specified to mount, all file accesses (atime updates) are logged to the UFS logging queue. Each atime update requires two writes to the disk to complete it.

If
you want to do UFS logging -- and there are reliability advantages to it -- consider using the "logging,noatime" mount options instead. That will shift atime updates from the logging queue to fewer and independent asynchronous operations, consequently making the UFS logging queue a smaller bottleneck.

Consult mount_ufs(1M) for more information on the logging and noatime options.

(My thanks to Casper Dik for this tip on improving the performance of UFS logging.)

17.17 Why is lsof so slow on my Solaris 8 or 9 system?

Solaris 8 has a post-release feature upgrade modifying kernel name cache (DNLC) handling that can slow lsof throughput dramatically. The feature, sometimes called negative DNLC caching, is standard in Solaris 9.

As best I can tell, when you install the Solaris 8 MU1 package, you get negative DNLC caching. If this pipe produces any output, your system has negative DNLC caching.

```
$ nm /dev/ksyms | grep negative_cache_vnode
```

The reason negative
DNLC caching perturbs lsof is that a
single vnode address (found in the negative_cache_vnode
kernel variable) is used to mark entries in the DNLC that
are not (the negative part) found on disk.

Since a single vnode address (the DNLC key lsof uses) can
represent many (I've seen upwards of 30,000.) DNLC entries,
their presence overloads lsof's internal DNLC hashing
function. An overloaded hash function is a slow hash
function, and lsof's slows to a crawl when it encounters
thousands of keys that produce the same value when the lsof
DNLC hash function is applied to them.

The solution is simple -- ignore negative DNLC cache keys.
They don't represent path name components lsof can use.
Lsof revisions 4.50 and above have an addition that ignores
them and the performance of those lsof revisions improves
significantly when presented with negative DNLC cache keys.

If you don't have an lsof revision at 4.51 or later, there's
a work-around. Use lsof's ``-C'' option. It disables
lsof's
DNLC caching. Of course, that also inhibits the
reporting of any path name components from the kernel DNLC.
When ``-c'' is used, lsof will continue to report file
system and character device paths.

17.18 Solaris and VxFS

17.18.1 Why doesn't lsof support VxFS 3.4 on Solaris 2.6, and above?

Lsof will not support VxFS version 3.4 on Solaris 2.6 and above
unless some files from VxFS Update 2 have been installed. VxFS
3.4 FCS and VxFS 3.4 update 1 lack the header files lsof
normally uses to obtain information from the VxFS 3.4 kernel
node structure, vx_inode. VxFS 3.4 Update 2 provides a method
whereby lsof can obtain the necessary vx_inode information from
the vxfsu_get_ioffsets() function in Veritas utility
libraries.

The utility libraries (32 bit and 64 bit versions) may be
found in /opt/VRTSvxfs/lib. An ancillary header file may
be found in /opt/VRTSvxfs/include/sys/fs/vx_libutil.h.
Documentation of the vxfsu_get_ioffsets(3) function may be
found in

/opt/VRTS/man/man3/vxfsu_get_ioffsets.3.

Those files of VxFS 3.4 Update 2 may be downloaded from:

ftp://ftp.veritas.com/pub/support/vxfs_34.i64243.tar

The vxfs_34.i64243.tar archive will unpack into an i64243
directory containing these files:

```
$ ls i64243
README
libvxfsutil.sol26.sums
libvxfsutil.sol26.tar.Z
libvxfsutil.sol27.sums
libvxfsutil.sol27.tar.Z
libvxfsutil.sol28.sums
libvxfsutil.sol28.tar.Z
```

Read README. Select the *.tar.Z file appropriate for your
Solaris version. Its contents will unpack into /opt/VRTS
and /opt/VRTSvxfs, so you will need sufficient permission
-- e.g., do it as root -- to unpack the uncompressed archive.
Once you've done that, it's a good idea to compare the
checksums of the archive you unpacked with the ones recorded
in the appropriate *.sums file. Use `sum -r` to verify
the checksums.

For example, if you want the Solaris 8 version, uncompress
and unpack libvxfsutil.sol28.tar.Z -- e.g.,

```
$ su
...
# cd i6423
# zcat libvxfsutil.sol28.tar.Z | tar xf -
```

That should create these new files and subdirectories with
the indicated checksums:

```
File or subdirectory   sum -r

/opt/VRTSvxfs/include/vxfsutil.h  03938
/opt/VRTSvxfs/lib/libvxfsutil.a  51794
/opt/VRTSvxfs/lib/sparcv9/
/opt/VRTSvxfs/lib/sparcv9/libvxfsutil.a 07420
/opt/VRTS/man/man3/
/opt/VRTS/man/man3/vxfsu_get_ioffsets.3 62480
```

Once these files are in place, run lsof's Configure script
for the solaris or solariscc abbreviation. Configure will
locate the appropriate VxFS 3.4 Update 2 files and set up
for the making of an lsof that will properly display open
VxFS 3.4 file information.

17.18.2 Why does lsof report "vx_inode: vxfsu_get_ioffsets error"
for open Solaris 2.6 and above VxFS 3.4 and above files?

Even when lsof supports VxFS 3.4 and above on Solaris 2.6 and
above, it may report "vx_inode: vxfsu_get_ioffsets error" in
the NAME column for all VxFS files.

The
usual cause is that lsof doesn't have permission to
read the file at the end of the /dev/vxportal symbolic
link. If, for example, lsof has been installed setgid(sys),
then the /dev/vxportal symbolic link destination should be
owned by the sys group and readable by it.

Update 2 for VxFS 3.4 sets the modes of the /dev/vxportal
symbolic link destination to 0640 and the group ownership
to sys. But I have had a report that the modes are wrong
in a VxFS 4.0 installation.

Another cause may be that the system has more than one version
of VxFS installed (Only one can be active.), and lsof's
Configure script did not choose the header files and libraries
for the active VxFS version. Configure opts for VxFS 4.0 and
above header files and libraries (in /opt/VRTS) in preference
to those for VxFS below 4.0 (in /opt/VRTSvxfs).

Look for the directories /opt/VRTS and /opt/VRTSvxfs. If you
have /opt/VRTS, make sure its header and library symbolic links
point to those of
the active VxFS version.

If you have both directories, look at the CFLAGS that Configure
constructed for making lsof and see which directory path
follows a -I option. If that doesn't match the directory path
of the active VxFS version, try pointing Configure at the
correct directory with the SOLARIS_VXFSINCL environment
variable -- e.g.,

```
$ SOLARIS_VXFSINCL=/opt/.../include ./Configure -n solaris
```

17.18.3 Why does Solaris Configure claim there is no VxFS library?

The lsof Configure script, when configuring for Solaris, may
report:

    FATAL: no VxFS .../libvxfsutil.a

That fatal error message indicates lsof has found the VxFS
utility library's header files, but can't find the library
itself in the expected location adjacent to the header files.

One possible cause is an incorrect symbolic link from
/opt/VRTS/lib/sparcv9/libvxfsutil.a to the library's real
location. (Some VxFS distributions declared the link
incorrectly.) Use `ls -lL` on that path to see if
it exists.
If it doesn't exist, the link may be missing an additional
leading "../" component.

If the problem is a missing "../" from the library's link, you
can correct the link or check with Veritas/Symantec for the
patch that corrects it.

If the problem is not a missing "../", and you know the
libvxfsutil.a location, you can define its path in the
SOLARIS_VXFSLIB environment variable before running the lsof
Configure script. (See 00XCONFIG for information about using
the SOLARIS_VXFSLIB environment variable.)

If you have no libvxfsutil.a, you must obtain it from
Veritas/Symantec or find it in your VxFS installation package.

17.18.4 Why doesn't Solaris lsof report VxFS path name components?

Solaris lsof will report path name components for VxFS versions
that use the common Solaris Dynamic Name Lookup Cache (DNLC) or
on some file systems of VxFS versions that support the VxFS
Reverse Name Lookup (RNL) facility.

VxFS versions 3.3 (approximately) and below use the
common
Solaris DNLC. (I haven't been able to determine exactly when
VxFS stopped using the DNLC.) For versions above that boundary,
but below 4.0, lsof can't report path name components.

At VxFS 4.0 and above, lsof can be compiled to use the VxFS RNL
facility for reporting path names. If "-DHASVXFSRNL" appears
in the compiler flags section of lsof "-v" option output, then
the lsof Configure script detected the VxFS RNL facility and
lsof has been compiled to use it.

Lsof's use of the RNL facility can fail when the VxFS file system disk layout version is below 6. In that case, lsof can report no path name components. For more information, see the vxfs_inotopath(3) manual page. any of the following commands will show the disk layout version for a VxFS file system, when supplied the block device or mount point on which the file system is mounted.

```
   fstyp -v <block_device>
 or
   mkfs -m <block_device>
 or
   vxupgrade <mount_point>
```

You must have permission to read the block device -- e.g., be the root user.

You may also be able to upgrade an older disk layout to one that will work with the RNL. See the vxupgrade(1M) man page for more information on that.

When lsof can't report VxFS path name components, it reports the file system mount point and the path name of device on which it is mounted. The device path name is enclosed in parentheses.

17.18.5 Why does Solaris 10 lsof report scrambled VxFS paths?

Solaris 10 lsof may report a bogus, scrambled path for an open VxFS file, when lsof obtains the path from a vnode's cached path. Veritas/Symantec reports that their Solaris 10 implementation has bugs in the way it handles the Solaris 10 vnode cached path and those bugs will be fixed in an upcoming patch some time after August 15, 2005.

When Solaris 10 lsof reports a path for an open VxFs file obtained via the VxFS Reverse Name Lookup facility, the path will be correct.

Also see the answers to the questions "Why does Solaris 10 lsof sometimes report the wrong path name?" and "Why doesn't Solaris lsof report VxFS path name components?"

17.19 Large file problems

17.19.1 Why does lsof complain it can't stat(2) a Solaris 2.5.1 large file?

When given an argument that is the path to a Solaris 2.5.1 file, enable for large file operations with the O_LARGEFILE open(2) option, lsof complains that it can't stat(2) the file. That's because lsof isn't using a stat(2) call and associated structure enabled for large files.

This error has been fixed, starting at lsof revision 4.58 for Solaris 2.6 and above. That fix won't work on Solaris 2.5.1 and I no longer have access to a Solaris 2.5.1 test system to develop a separate fix.

The work-around is to avoid specifying a O_LARGEFILE path as an argument to lsof on Solaris 2.5.1. Instead use a combination of lsof and grep to achieve the same results, albeit more clumsily.

17.20 Why does lsof get a segmentation fault on 64 bit Solaris 8
using NIS+?

I have received a report from Gary Craig that lsof produces a segmentation fault on his 64 bit Solaris 8 system using NIS+. Via an independent test program we have exonerated lsof and tracked the fault to the NIS+ __nis_server_name() function in the C name server library, -lnsl.

Lsof causes the __nis_server_name() NIS+ function to be called by calling getservent() to read entries of the port number to service name map.

The only Sun bug ID that appears to describe the problem is 4304244, although its text is unclear enough to leave room for doubt.

Until Sun eliminates the __nis_server_name() segmentation fault cause, a work-around for lsof is to use its "-P" option, causing lsof to avoid port to service name lookups.

17.21 Will lsof crash the Solaris kernel?

I've received and investigated one report that it has when the Sun hardware (a QME interface) was faulty. Today (May 23, 2002) I've learned that Sun has reports of kernel crashes caused by adb,

lsof, and mdb.

The Sun investigation pinpointed a problem in the /dev/kmem kernel driver and there is a Sun bug report, 4344513, about the problem. There is a fix in Solaris 9, and patches for Solaris 7 and 8 (SPARC and x86).

To see if your Solaris system is fixed, look for a /devices/pseudo/*allkmem node.

Extensive address filtering was added to lsof revision 4.50 to forestall what I then (July 2001) believed to be only the possibility that lsof might crash Solaris. However, the filtering isn't perfect, since a filtered address might become invalid after lsof has filtered it but before lsof has delivered it to /dev/kmem. That filtering work is described in .../dialects/sun/solaris_kaddr_filters, also available at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/solaris_kaddr_filters

The best and safest work-around is to upgrade to Solaris 9 or install an appropriate patch or its equivalent from this list:

Solaris Version	SPARC Patch	x86 Patch
7	106541-20	106542-20
8	108528-14	108529-14

17.22 Why does lsof on Solaris 7, 8, or 9 report a kvm_open() failure?

When lsof is started on some Solaris 7, 8, and 9 systems it may report:

```
lsof: kvm_open(namelist=default, corefile=default): \
No such file or directory
```

Lsof revisions 4.65 and later will first report:

```
lsof: cannot stat /dev/allkmem
```

The second message, not delivered in lsof revisions below 4.65, explains the cause of the kvm_open() failure; it can't find /dev/allkmem.

/dev/allkmem is a device added to Solaris 7 and 8 in patches and in the Solaris 9 FCS. See the preceding "Will lsof crash the Solaris kernel?" section for more information on /dev/allkmem and the patches.

The kvm_open(3KVM) function in the KVM library of patched Solaris 7 and 8 systems and in Solaris 9 expects to find /dev/allkmem and exits on error when it does not.

If you have installed the patch that updated your KVM library to
a version that expects /dev/allkmem to be present
and it is not, you may need to reconfigure your system's devices with devfsadm(1M) or enter "boot -r" to the OpenBoot monitor's prompt (usually "ok").

17.23 Solaris and SAM-FS

17.23.1 Why does Solaris lsof report "(limited SAM-FS info)"?

Lsof 4.68 and above report "(limited SAM-FS info)" on Solaris in the NAME column after the path or file system name for all files it finds on SAM-FS file systems.

That's because no more information is known about the composition of the nodes that follow SAM-FS vnodes. If you can provide that information, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

17.23.2 Why can't lsof locate named SAM-GS files?

Solaris lsof 4.68 and above can't locate files on SAM-FS file systems when the files are named as lsof arguments because lsof doesn't know how to locate open SAM-FS file device
and node number information. (See also 'Why does Solaris lsof report "(limited SAM-FS info)?')

17.24 Lsof and Solaris 10 zones

17.24.1 How can I make lsof list the Solaris zone?

Use the lsof "-z [z]" option.

17.24.2 Why doesn't lsof work in a Solaris 10 zone?

When run from within a Solaris 10 zone, lsof will usually report:

```
lsof: can't stat(/devices): No such file or directory
```

That's because a Solaris zone usually has no /devices subdirectory, a restriction of the zone implementation intended to limit the ability of zone processes to control global system resources, including physical devices.

While a zone may have a /dev subdirectory, that subdirectory usually lacks the /dev/allkmem, /dev/mem and /dev/kmem devices lsof and the KVM library it uses require.

The work-around is to run lsof in the global zone. When it is run in a global zone lsof will be able to report on processes running in any zone, including the global zone.

17.24.3 Why does lsof complain it can't stat() Solaris 10 zone file systems?

When run from the global zone on Solaris 10 lsof may complain:

```
lsof: WARNING: can't stat() 15 zone file systems;
 using dev= options
```

The warning message means lsof found the reported number of file system entries in the mount table for which it didn't have permission to get stat(2) results, but which had "zone=" and "dev=" mount table options.

That is a normal restriction of Solaris 10 zones. Since the lsof warning message indicates it was able to find "dev=" options for the file systems, lsof will probably work correctly.

One work-around is to relax the restrictions on zone mount points, so that lsof can stat() them. While that may be possible by changing directory modes or group ownerships, it is probably not a good idea, because it weakens the restrictions zones are intended to provide.

Another work-around is to suppress the warning message with lsof's "-w" option. The down side of that is that it causes the

suppression of all warning messages, leading to the
possibility that some non-stat() warning messages will be
suppressed.

17.25 Solaris 10 problems

17.25.1 Why does Solaris 10 lsof sometimes report the wrong path name?

When a path name component is renamed -- e.g., with mv(1) --
Solaris 10 lsof may report the old component for an open file
that used the component in its path before the rename. That's
because Solaris 10 lsof reports the path name cached in the
open file's vnode and the Solaris 10 kernel doesn't update the
open vnode's cached path name when a component of it is changed.

When an open file is deleted -- e.g., with rm(1) -- the path
name by which it was opened remains cached in the vnode. Lsof
can be instructed to display that path name with the -X option.
The path name might be incorrect because of the rename problem
described above. See the answer to the 'What does "(deleted)"
mean in the NAME column of a Solaris 10 open file?' question
for
more information.

Lsof is sometimes able to detect that cached path name is
incorrect. In that case lsof may report only the mounted-on
directory and device of the file system or it may report that
the path name is of questionable accuracy by appending a
trailing "(?)" to it in the NAME column.

See the answer to the "Why does Solaris 10 lsof sometimes
report only the mounted-on directory and device?" and 'What
does "(?)" mean in the NAME column of a Solaris 10 open file?'
questions for more information.

17.25.2 Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?

For some regular open files lsof may report only the mounted-on
directory and device of the file system on which the file
resides. That's because lsof was able to determine that the
path name cached in the open file's vnode is incorrect.

Lsof detects the cached path name is incorrect by applying
stat(2) to it, provided that no error was detected when stat(2)
was applied to
the file system mounted-on directory during lsof
setup. If a mounted-on directory stat(2) error was detected

during setup, lsof does no cached path name analysis and simply reports it.

When the application of stat(2) to the cached path name returns a no-entry reply (the ENOENT error number), lsof concludes the path no longer exists (i.e., has been unlinked) and reports the mounted-on directory and device of the file system. That behavior can be modified with the -X option in lsof revisions 4.77 and above. See the answer to the 'What does "(deleted)" mean in the NAME column of a Solaris 10 open file?' for more information.

When the application of stat(2) to the cached path name returns a permission error reply (the EACCES or EPERM error numbers), lsof reports the cached path name and adds a trailing "(?)" to indicate the reported path name is of questionable accuracy. See the answer to the question 'What does "(?)" mean in the NAME column of a Solaris 10 open file?' for more information.

If the application of stat(2) to the cached path name yields any other error reply, lsof reports the mounted-on directory and device of the file system.

When the application of stat(2) to the cached path name succeeds, lsof compares the reported device and node numbers to what it has obtained for the open file from kernel structures. If they match, lsof reports the cached path name. If they don't match, lsof instead reports the mounted-on directory and device of the file system.

A work-around that allows lsof to apply stat(2) successfully to cached path names is to give lsof sufficient permission to do it -- i.e., run lsof as the root user.

17.25.3 What does "(deleted)" mean in the NAME column of a Solaris 10 open file?

When the -X option is specified to Solaris 10 lsof, it will report in its NAME column the path name cached for a deleted file in its vnode. The path name will be followed by "(deleted)".

Note that the path name cached in a file's vnode is the path name by which the file was opened. It is not updated by the Solaris kernel when any path name component is changed. Hence, it may not represent the final path name the open file had.

See the answer to the "Why does Solaris 10 lsof sometimes report the wrong path name?" question for more information on how changing a path name component affects the correctness of a what lsof reports.

17.25.4 What does "(?)" mean in the NAME column of a Solaris 10 open file?

When lsof encounters a path name cached in the open file's vnode that stat(2) reports lsof lacks permission to access, lsof adds "(?)" to the path name reported in the NAME column to indicate the path name is of questionable accuracy.

See the answers to the "Why does Solaris 10 lsof sometimes report the wrong path name?" and "Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?" questions for more information on why lsof may report a path name of questionable
accuracy.

A work-around that allows lsof to apply stat(2) successfully to cached path names is to give lsof sufficient permission to do it -- i.e., run lsof as the root user.

17.26 Solaris contract file problems

17.26.1 Why doesn't lsof report size, link count and node number for Solaris 10 contract files?

Lsof doesn't report size, link count or node number for Solaris 10 contract files because I don't know how to obtain them from contract file kernel structures.

17.26.2 Why can't lsof locate a Solaris 10 contract file by path name?

Because lsof can't find the node number of Solaris contract files, it can't match the device and node numbers it gets from applying stat(2) to the contract file path name with what it finds in kernel data.

17.27 Solaris 10 and above ZFS probblems

17.27.1 Why does Configure warn that ZFS support is not enabled?

To provide ZFS support it is necessary that lsof have access to the definitions of ZFS structures used by the kernel.

Those
definitions are made available to lsof when it runs by the
libctl library.

If lsof's Configure script finds that ZFS is indicated by the
presence of the <sys/fs/zfs.h> header file, but the libctl
library is not indicated via the <libctl.h> header file, the
script concludes that ZFS support is not possible and issues
the following warning:

  WARNING: ZFS support not enabled; libctf.h missing.

Install libctf support to remedy this problem.

17.28 Problems with Solaris 9 and above

17.28.1 Why does the compiler complain about lgrp_root on Solaris 9
and above?

When compiling lsof 4.84 on later Solaris 9 and 10 systems, the
compiler may report the following error:

  /usr/include/sys/lgrp.h", line ...: identifier redeclared: lgrp_root

This error results from a conflict between usage of lgrp_root
in both <sys/lgrp.h> and <sys/lgrp_user.h> when _KMEMUSER or
_KERNEL is #define'd before <sys/lgrp.h> is #include'd. This
problem is noted in Sunsolve bug ID 5064229.

The
work-around is to use lsof revision 4.85 sources.

18.0 Lsof Features

18.1 Why doesn't lsof doesn't report on /proc entries on my
system?

/proc file system support is generally available only for
BSD, SYSV R4 dialects, and Tru64 UNIX (Digital UNIX, DEC
OSF/1). It's also available for Linux, and Pyramid DC/OSx
and Reliant UNIX.

Even on some SYSV R4 dialects I encountered many problems
while trying to incorporate /proc file system support.
The chief problem is that some vendors don't distribute
the header file that describes the /proc file system node

-- usually called prdata.h.

18.2 How do I disable the device cache file feature or alter it's behavior?

To disable the device cache file feature for a dialect, remove the HASDCACHE definition from the machine.h file of the dialect's machine.h header file. You can also use HASDCACHE to change the default prefix (``.lsof'') of the device cache file.

Be sure you consider disabling the device cache file feature carefully.
Having a device cache file significantly reduces lsof startup overhead by eliminating a full scan of /dev (or /devices) once the device cache file has been created. That full scan also overloads the kernel's name cache with the names of the /dev (or /devices) nodes, reducing the opportunity for lsof to find path name components of open files.

If you're worried about the presence of mode 0600 device cache files in the home directories of the real user IDs that execute lsof, consider these checks that lsof makes on the file before using it:

1. To read the device cache file, lsof must gain permission from access(2).

2. The device cache file's modes must be 0600 (0644 if lsof is reading a system-wide device cache file) and its size non-zero.

3. There must be a correctly formatted section count line at the beginning of the file.

4. Each section must have a header line with a count that properly numbers the lines in the section. Legal sections are device, clone, pseudo-device, and CRC.

5. The lines of a section must have the proper format.

6. All lines are included in a 16 bit CRC, and it is recorded in a non-checksummed section line at the end of the file.

7. The checksum computed when the file is read must match the checksum recorded when the file was written.

8. The checksum section line must be followed by end-of-information.

9. Lsof must be able to get matching results from stat(2) on a randomly chosen entry of the device section.

For more information on the device cache file, read the 00DCACHE file of the lsof distribution.

18.2.1 What's the risk with a perverted device cache file?

Even with the checks that lsof makes on the device cache file, it's conceivable that an intruder could modify it so it would pass lsof's tests.

The only serious consequence I know of this change is the removal of a file whose major device number identifies a socket
from some user ID's device cache file. When such a device has been removed from the device cache file, and when lsof doesn't detect the removal, lsof may not be able to identify socket files when executed by the affected user ID. Only certain dialects are at risk to this attack -- e.g., SCO OpenServer and Solaris 2.x, 7, 8, and 9.

If you're tracking a network intruder with lsof, that could be important to you. If you suspect that someone has corrupted the device cache file you're using, I recommend you use lsof's -Di option to tell it to ignore it and use the contents of /dev (or /devices) instead; or remove the device cache file (usually .lsof_hostname, where hostname is the first component of the host's name returned by gethostname(2)) from the user ID's home directory and let lsof create a new one for you.

18.2.2 How do I put the full host name in a personal device cache file path?

Lsof constructs the personal device cache file path name from a format
specified in the HASPERSDC #define in the dialect's machine.h header file. As distributed HASPERSDC declares the path to be ``.lsof_'' plus the first component

of the host name with the format ``.lsof_%L".

If you want to change the way lsof constructs the personal
device cache file path name, you can change the HASPERSDC
#define and recompile lsof. If, for example, you #define
HASPERSDC to be ``.lsof_%l" (note the lower case `l'),
Configure and remake lsof, then the personal device cache
file path will be ``.lsof_" plus the host name returned
by gethostname(2).

See the 00DCACHE file of the lsof distribution for more
information on the formation of the personal device cache
file path and the use of the HASPERSDC #define.

18.2.3 How do I put the personal device cache file in /tmp?

Change the HASPERSDC definition in your dialect's machine.h
header file.

When you redefine HASPERSDC, make sure you put at least
one user identification conversion in it to keep separate
the
device cache files for each user of lsof. Also give
some thought to including the ``%0" conversion to define
an alternate path for setuid-root and root processes.

Here's a definition that puts a personal device cache file
in /tmp with the name ``.lsof_login_hostname_pers".

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers"
```

Thus the /tmp personal device cache file path for login
"abe" on host "lsof.itap.purdue.edu" would be:

```
/tmp/.lsof_abe_lsof.itap.purdue.edu_pers
```

You can add the User ID (UID) with the "%U" conversion and
the first host name component with the ``%L" conversion.

CAUTION: be careful using absolute paths like /tmp lest
lsof processes that are setuid-root or whose real UID is
root be used to exploit some security weakness via /tmp.
Elect instead to add an alternate path for those processes
with the ``%0" conversion. Here's an extension of the
previous HASPERSDC format for /tmp that declares an alternate
path:

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers%0%h/.lsof_%L"
```

When
the lsof process is setuid-root or its real UID is
root, presuming root's home directory is `/' and the host's
name is ``lsof.itap.purdue.edu", the extended format yields:

/.lsof_vic

18.3 Why doesn't lsof know about AFS files on my favorite dialect?

Lsof currently supports AFS for these dialects:

AIX 4.1.4 (AFS 3.4a)
Linux 1.2.13 (AFS 3.3)
NEXTSTEP 3.2 (AFS 3.3)
Solaris 2.[56] (AFS 3.4a)

It may recognize AFS files on other versions of these
dialects, but I have no way to test that. Lsof may report
correct information for AFS files on other dialects, but
I can't test that either.

AFS support must be custom crafted for each UNIX dialect
and then tested. If lsof supports your favorite dialect,
but doesn't recognize its AFS files, probably I don't have
access to a test system. If you want AFS support badly
for your dialect, consider helping me do the development
and testing.

18.3.1 Why doesn't lsof report node numbers for all AFS volume files, or how do I reveal dynamic module addresses to lsof?

When AFS is implemented via dynamic kernel modules -- e.g.,
in NEXTSTEP -- lsof can't obtain the addresses of AFS
variables in the kernel that it uses to identify AFS vnodes.
It can guess that a vnode is assigned to an AFS file and
it can obtain other information about AFS files, but it
has trouble computing AFS volume node numbers.

To determine node numbers for AFS volumes other than the
root volume, /afs, lsof needs access to a hashed volume
structure pointer table. When it can't find the address
of that table, because AFS support is implemented via
dynamic kernel modules, lsof will return blanks in the
INODE column for AFS volume files. Lsof can identify the
root volume's node number (0), and can compute the node
numbers for all other AFS files.

If you have a name list file that contains the addresses
of the AFS dynamic modules -- e.g., you saved module symbols
when
you created a loadable module kernel with modload(8)
by specifying -sym -- lsof may be able to find the kernel
addresses it needs in that file.

Lsof looks up AFS dynamic kernel addresses for these dialects
at these default paths:

    NEXTSTEP 3.2 /usr/vice/etc/afs_loadable

A different path to a name list file with AFS dynamic kernel
addresses may be specified with the -A option, when the -A
option description appears in lsof's -h or -? (help) output.

If any addresses appear in the -A name list file that also
appear in the regular kernel name list file -- e.g., /vmunix
-- they must match, or lsof will silently ignore the -A
addresses on the presumption that they are out of date.

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/00FAQ
No license file was found, but licenses were detected in source scan.

/*
* Copyright 1994 Purdue Research Foundation, West Lafayette, Indiana
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*
* Written by Victor A. Abell
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*   misrepresented as being the original software.

 *
* 4. This notice may not be removed or altered.
*/

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/proto.h
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/arg.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/node.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lsof_fields.h
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/misc.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lsof.h
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/proc.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/store.c
No license file was found, but licenses were detected in source scan.

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 *
* 4. This notice may not be removed or altered.
*/

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/ptti.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rnam.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dmnt.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rnmh.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rdev.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dfile.c

* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/dvch.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dnode.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/cvfs.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/fino.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dstore.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/pdvn.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dlsof.h
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rnch.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/lkud.c
*
/lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/prfp.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/isfn.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dsock.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/machine.h
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dproto.h
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/dialects/linux/dproc.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/rmnt.c
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
# sort_res.pl - Script to group & sort lsof output by resource
#
# Copyright (c) 2004, 2005 - Fabian Frederick <fabian.frederick@gmx.fr>
#
# This program/include file 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/include file 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 (in the main directory of the Linux-NTFS
# distribution in the file COPYING); if not, write to the Free Software
# Foundation,Inc., 59 Temple Place, Suite 330, Boston,
 MA  02111-1307  USA
#
# Note :
# -This script uses lsof released by Victor A. Abell
# -lsof path recovery comes from standard perl scripts in there.
#
# Usage :
# perl sort_res.pl -> display used resources + size
# or perl sort_res.pl <program name>
#
```

```
# 12/2005 (FabF)
# -size reset in loop (script was broken in 4.76)
# -isexec looking in .. (like other scripts)
# -display for one or all processes
# -removing unuseful line number arg.
# -display global size

my @args = @_;

# Set path to lsof.
if (($LSOF = &isexec("../lsof")) eq "") {    # Some distros use lsof
        # out of $PATH
  if (($LSOF = &isexec("lsof")) eq "") {     # Then try . and $PATH
 if (($LSOF = &isexec("../lsof")) eq "") {    # Then try ..
    print "can't execute $LSOF\n"; exit 1
 }
  }
}

if ($ARGV[0] ne ""){
  $cmd="$LSOF -nPl -Fcns -c".$ARGV[0]."|";
}else{
  $cmd="$LSOF -nPl -Fcns|";
}

#Parse lsof output to gather command, resource name, pid and size
#Some extradata stand to keep script genericity
$i=0;
if
 (open(FILE, $cmd)){
  while (defined ($line=<FILE>)){
 $cline=$line;
 $cline =~ s"^(.)"";
 $cline =~ s/^\s+|\s+$//g;
 if($line=~m/^p/){
    $pid=$cline;
 }else{
    if($line=~/^s/){
  $size = $cline;
    }else{
  if($line=~/^c/){
     $command = $cline;
  }else{
     if($line=~/^n/){
   $name = $cline;
   $data{$i} = { command => $command, name => $name,
        pid => $pid , size => $size};
   $size=0;
```

```
  $i = $i+1;
    }
  }
    }
 }
  }
}

#Resource name sorting
sub byresname { $data{$a}{name} cmp $data{$b}{name}}
@ks=sort byresname (keys %data);

#Resource grouping
$i=0;
$cname="a";
foreach $k (@ks){
  if ($data{$k}{name} ne $cname){
 $dgroup{$i} = { name => $data{$k}{name}, size => $data{$k}{size}};
 $cname = $data{$k}{name};
 $i++;
  }
}

#Size sort on resource hash
sub bysize { $dgroup{$a}{size} <=> $dgroup{$b}{size} }
@ks=sort bysize (keys %dgroup);
$gsize=0;
printf("  -- KB --  -- Resource --\n", );
foreach $k (@ks){
 printf("%10d  %s\n", $dgroup{$k}{size}/1024,
 $dgroup{$k}{name});
 $gsize+=$dgroup{$k}{size};
}

printf("Total KB : %10d\n", $gsize/1024);
## isexec($path) -- is $path executable
#
# $path   = absolute or relative path to file to test for executabiity.
#     Paths that begin with neither '/' nor '.' that arent't found as
#     simple references are also tested with the path prefixes of the
#     PATH environment variable.

sub
isexec {
  my ($path) = @_;
  my ($i, @P, $PATH);

  $path =~ s/^\s+|\s+$//g;
```

```
  if ($path eq "") { return(""); }
  if (($path =~ m#^[\/\.]#)) {
 if (-x $path) { return($path); }
 return("");
  }
  $PATH = $ENV{PATH};
  @P = split(":", $PATH);
  for ($i = 0; $i <= $#P; $i++) {
 if (-x "$P[$i]/$path") { return("$P[$i]/$path"); }
  }
  return("");
}
```

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/sort_res.pl
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2008 Purdue Research Foundation, West Lafayette, Indiana
* 47907.  All rights reserved.
*
* Written by Victor A. Abell
*
* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on
* any computer system, and to alter it and redistribute it freely, subject
* to the following restrictions:
*
* 1. Neither the authors nor Purdue University are responsible for any
*    consequences of the use of this software.
*
* 2. The origin of this software must not be misrepresented, either by
*    explicit claim or by omission.  Credit to the authors and Purdue
*    University must appear in documentation and sources.
*
* 3. Altered versions must be plainly marked as such, and must not be
*    misrepresented as being the original software.
 *
* 4. This notice may not be removed or altered.
*/
```

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/util.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Copyright 2002 Purdue Research Foundation, West Lafayette, Indiana
* 47907.  All rights reserved.
*
* Written by V. Abell.
*
* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on
* any computer system, and to alter it and redistribute it freely, subject
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*
* 3. Altered versions must be plainly marked as such, and must not be
*    misrepresented as being the original software.
*
*
 4. This notice may not be removed or altered.
*/
/*
* GetOpt() -- Local get option
*
* Borrowed from lsof's main.c source file.
*
* Liberally adapted from the public domain AT&T getopt() source,
* distributed at the 1985 UNIFORM conference in Dallas
*
* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/
```

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTlib.c
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1998 Purdue Research Foundation, West Lafayette, Indiana
* 47907.  All rights reserved.
*
* Written by Victor A. Abell
*
```

* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on
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*
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* 2. The origin of this software must not be misrepresented, either by
*   explicit claim or by omission. Credit to the authors and Purdue
*   University must appear in documentation and sources.
*
* 3. Altered versions must be plainly marked as such, and must not be
*   misrepresented as being the original software.
 *
* 4. This notice may not be removed or altered.
*/

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/ckkv.c
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/usage.c
No license file was found, but licenses were detected in source scan.

Notes for the distribution of lsof version 4

****
| The latest release of lsof is always available from
| https://github.com/lsof-org/lsof/releases
|
| From 4.92.1, git is introduced to manage changes.
| You can consult the details of changes with git.
****

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4.93.1 May 7, 2019
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Dialects Supported
==========

Lsof (for LiSt Open Files) lists files opened by processes on selected Unix systems. Version 4 is a source reorganization of version 3, itself a major revision of version 2. Version 4 has been tested on:

Apple Darwin 9 and Mac OS X 10.[567]
FreeBSD 10.3, 11.0, 12.0 and 13.0 for AMD64-based systems
Solaris 9

(The pub/tools/unix/lsof/contrib directory on lsof.itap.purdue.edu contains information on other ports.)

If your favorite Unix dialect is not in the list, or if your version of it is more recent than the ones listed, please contact me at <abe@purdue.edu>.

Version 3 of lsof was tested on:

AIX 3.2.5, 4.1[.[1234]], and 4.2
BSDI BSD/OS 2.0, 2.0.1, and 2.1 for x86-based systems
DC/OSx
1.1 for Pyramid systems
Digital UNIX (DEC OSF/1) 2.0, 3.0, 3.2, and 4.0
EP/IX 2.1.1 for the CDC 4680
FreeBSD 1.1.5.1, 2.0, 2.0.5, 2.1, 2.1.5 for x86-based systems
HP-UX 8.x, 9.x, 10.01, 10.10, and 10.20
IRIX 5.2, 5.3, 6.0, 6.0.1, and 6.[124]
Linux through 2.0.27 for x86-based systems

NetBSD 1.0, 1.1, and 1.2 for x86 and SPARC-based
systems
NEXTSTEP 2.1 and 3.[0123]
OpenBSD 1.2 and 2.0 for x86-based systems
Reliant UNIX 5.43 for Pyramid systems
RISC/os 4.52 for MIPS R2000-based systems
SCO OpenServer Release 1.1, 3.0, and 5.0.x for x86-based
systems
SCO UnixWare 2.1 and 2.1.1 for x86-based systems
Sequent PTX 2.1.[1569], 4.0.[23], 4.1.[024], 4.2[.1],
and 4.3
Solaris 2.[12345], 2.5.1, and 2.6-Beta
SunOS 4.1.x
Ultrix 4.2, 4.3, 4.4, and 4.5

Version 3 and its predecessor, version 2, may be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

How Lsof Works
==========

Using available kernel data access methods -- getproc(), getuser(),
kvm_*(),
nlist(), pstat(), read(), readx(), /proc -- lsof reads
process table entries, task table entries, user areas and file
pointers to reach the underlying structures that describe files
opened by processes.

Lsof interprets most file node structures -- advfsnodes, autonodes,
cnodes, cdrnodes, devnodes, fifonodes, gnodes, hsnodes, inodes,
mfsnodes, pcnodes, procnodes, rnodes, snodes, specnodes, s5inodes,
tmpnodes. It understands NFS connections. It recognizes FIFOs,
multiplexed files, Unix and Internet sockets. It knows about
streams. It understands /proc file systems for some dialects. On
many dialects it recognizes execution text and library references.
It knows about AFS on some Unix dialects.

Lsof Output
==========

The lsof output describes:

* the identification number of the process (PID) that has opened
the file;

* the process group identification number (PGID) of the process
(optional);

* the process identification number of the parent process
(PPID)
(optional);

* the command the process is executing;

* the owner of the process;

* for all files in use by the process, including the executing
text file and the shared libraries it is using:

* the file descriptor number of the file, if applicable;

* the file's access mode;

* the file's lock status;

* the file's device numbers;

* the file's inode number;

* the file's size or offset;

* the name of the file system containing the file;

* any available components of the file's path name;

* the names of the file's stream components;

* the file's local and remote network addresses;

* the TLI network (typically UDP) state of the file;

* the TCP state, read queue length, and write queue length
of the file;

* the file's TCP window read and write lengths (Solaris
only);

* other file or dialect-specific values.

Getting Started Quickly
==========

If
you want to get started using lsof quickly, or see some examples
of how lsof can be used, consult the 00QUICKSTART file of the lsof
distribution.

The 00QUICKSTART file won't help you build or install lsof, but it
will cut through the density of the lsof man page, giving you more
readily an idea of what you can do with lsof.

For information on building and installing lsof, consult the 00README
file of the lsof distribution.

Limiting, Filtering, and Selecting Lsof Output
==========

Lsof accepts options to limit, filter, and select its output.
These are the possible criteria:

* Process ID (PID) number -- to list the open files for a given
  process;

* Process Group ID (PGID) -- to list the open files for all
  the processes of a given process group;

* User ID number or login name -- to list the open files for
  all the processes of a given user;

* Internet address -- to list the open files using a given
  Internet
address (host name), protocol, or port (number or
  name); or to list all open Internet files;

* command name;

* file descriptor name or number;

* list all open NFS files;

* list all open Unix domain socket files;

* list all uses of a specific file;

* list all open files on a file system.

Selection options are normally ORed -- i.e., an open file meeting
any of the criteria is listed. The selection options may be ANDed
so that an open file will be listed only if it meets all the

criteria.

In the absence of any selection criteria, lsof lists files open to
all processes.

Parsing Lsof Output with Another Program
==

The lsof -F option directs it to produce "field" output that can
easily be parsed by another program. The lsof distribution contains
sample awk, perl 4, and perl 5 scripts in its scripts subdirectory
that show how to post-process field output.

Repeat Mode
===========

Lsof can be directed to produce
 output, delay for a specified time,
then repeat the output, cycling until stopped by an interrupt or
quit signal. This mode is useful for monitoring the status of some
file operation -- e.g., an ftp transfer or a tape backup operation.

Repeat mode is more efficient when combined with lsof's selection
options, since they limit lsof overhead.

It's possible to use lsof's field output options to supply repeat
mode output to another process for its manipulation. The scripts
subdirectory of the lsof distribution has sample Perl scripts
showing how to consume lsof repeat mode output from a pipe.

Distribution Restrictions
=========================

Lsof may be used and distributed freely, subject to these limitations:

1. Neither the author nor Purdue University is responsible for
  any consequences of the use of this software.

2. The origin of this software must not be misrepresented, either
  by explicit claim or by omission. Credit to the author and
  Purdue University must appear
 in documentation and sources.

3. Altered versions must be plainly marked as such, and must not
  be misrepresented as being the original software.

4. This notice may not be removed from or altered in the lsof source
files.

Cautions
========

Lsof is a tool that is closely tied to the Unix operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER.

On some Unix dialects, notably SunOS and Solaris, lsof versions
may be even more restricted by architecture type. An lsof binary,
compiled for SunOS 4.1.3 on a sun4c machine, for example, won't
work on a sun4m machine.

AN LSOF BINARY, COMPILED FOR ONE SOLARIS 1.X ARCHITECTURE, ISN'T
GUARANTEED TO WORK ON A DIFFERENT SOLARIS 1.X ARCHITECTURE.

Distribution Contents
=====================

The lsof distribution is checked for completeness when it is
constructed
and by the Inventory script when you run the Configure
script. (See The Inventory Script section of the 00README file of
this distribution.)

Lsof is organized in these parts:

* The main lsof directory, containing common sources,
configuration and setup scripts and three subdirectories:
dialects/, lib/, and scripts/.

Lsof is compiled in the main lsof directory after configuration.
The selected dialect sources are copied or linked from the
specified subdirectory. (Symbolic linking is the standard
method.)

Common lsof definitions may be found in lsof.h; common
function prototypes, proto.h; and common storage, store.c.

* The dialects/ subdirectory contains subdirectories with
sources specific to UNIX dialect implementations -- e.g.,
the dialects/sun/ subdirectory contains sources for the
SunOS (Solaris 1.x) and Solaris (2.x) implementations of
lsof. The dialects subdirectories also
contain Makefiles
and scripts for assisting dialect source configuration.

Dialect configuration definitions may be found in dlsof.h;
other dialect definitions, dlsof.h; dialect prototypes,
dproto.h; and dialect storage, dstore.c.

* The lib/ subdirectory contains sources for common lsof
functions. Not all dialects use the functions -- some have
their own versions of them. The lib/ functions are enabled
and customized with #define's in the dialect machine.h header
files.

* The scripts/ subdirectory contains sample scripts for
processing lsof field (-F) output. The scripts are written
in AWK, Perl 4, and Perl 5.

The 00PORTING file of the lsof distribution has more information
on lsof components, configuration, and construction.

Warranty
========

Lsof is provided as-is without any 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 lsof is with
you. Should lsof prove defective, you assume the cost of all
necessary servicing, repair, or correction.

Bug Reports
===========

Now that the obligatory disclaimer is out of the way, let me hasten
to add that I accept lsof bug reports and try hard to respond to
them. I will also consider and discuss requests for new features,
ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND A BUG REPORT ABOUT LSOF TO THE UNIX DIALECT
VENDOR.

At worst such a bug report will confuse the vendor; at best, the
vendor will forward the bug report to me.

Please send all bug reports, requests, etc. to me via email at
<abe@purdue.edu>.

The lsof-l Mailing List
=======================

Information about lsof, including notices about the availability
of new revisions, may be found in mailings of the lsof-l listserv.
For more information about it, including instructions on how
 to
subscribe, read the 00LSOF-L file of the lsof distribution.

Version 3 Release Notes
=======================

See 00DIST in the last lsof 3 revision 3.88, for its complete
set of release notes. Lsof revision 3.88 may be found at:

 ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

3.0 May 24, 1994
  This is the first official release of lsof 3.

...

3.88 February 17, 1997

  +====================================+
  | This is the last version 3 revision. |
  +====================================+

  Added documentation files -- 00.README.FIRST[_<version>]
  and 00RELEASE.SUMMARY_<version> -- to the distribution.

What's new in Version 4
=======================

The main goal of version 4 was to eliminate the confusing common/
fragment source file technique. Changing the version number also
provided an opportunity to restart the numbering, which at 3.88
had risen to a large value.

The sources that appeared in the dialects/common subdirectory of version 3 in fragment files
have been incorporated into the version 4 liblsof.a library as *.c files. This results in significant changes to many source files, scripts, and Makefiles of all dialect versions. It allows elimination of some source files -- ddev.c, dfile.c, dmnt.c -- for dialects now obtaining functions from liblsof.a that formerly came from making dialect source files by combining fragment files.

The version 4 liblsof.a sources are stored in the lib/ subdirectory of the main lsof directory. The liblsof.a functions are activated and conditioned in their source files by values #define'd in the dialect dlsof.h and machine.h header files.

Dialects that provide a private version of a library function refrain from #define'ing the symbol that would activate the library function code.

Version 4 Release Notes
=======================

4.0 February 24, 1997

+====================================+
| This is the first lsof 4 revision. |
+====================================+

Reorganized sources:
eliminated code fragment files
and created a library in their place. Modified or
deleted many dialect source and header files.
Changed documentation accordingly.

Added a warning to sgi/Makefile and 00FAQ that advises against using the IRIX C compiler -n32 option when compiling lsof. Thanks go to Peter Ilieve <peter@memex.co.uk> for bringing this to my attention.

Dropped IRIX 5.2 in mid-stream, because my 5.2 test system was upgraded to 5.3.

4.01 March 3, 1997
Added TFS support for Pyramid dialects.

Added test to Configure and to the IRIX dnode.c

for the different cnode struct that appears in
<cachefs/cachefs_fs.h> on the 6.2 IMPACT distribution.
Heddy Boubaker <boubaker@amfou.cenatls.cena.dgac.fr>
alerted me to the cnode change and helped test this
lsof adjustment.

Shut down the lsof child process before doing a -r
sleep(). A comment from Dan Mercer <dam@mmm.com>
prompted this.

4.02 March 21, 1997

Based on a report from Pasi Kaara
<Pasi.Kaara@atk.tpo.fi>,
disabled HP-UX CCIT support in lsof for HP-UX
versions 10 and above. Pasi's report also led to
changes in the HP-UX machine.h to support use of
gcc to compile lsof for HP-UX 10.20 and warnings
against using `cc -Aa` or `gcc -ansi` to compile
lsof under HP-UX 10.x.

With help from Richard Allen <ra@hp.is> taught
HP-UX 10.x lsof to name file systems better by
using the virtual file system device number. Elias
Halldor Agustsson <elias@rhi.hi.is> provided a test
system.

Changed NEXTSTEP and UNIXWARE Makefiles to use
safer quoting when generating version.h. The change
was suggested by Bob Farmer <ucs_brf@unx1.shsu.edu>.

Added SHELL=/bin/sh string to all Makefiles.

Added support for Linux 2.1.28 on a test system,
kindly provided by Jonathan Sergent <sergent@purdue.edu>.
Configure tests the Linux 2.1.x's C library lseek()
function for proper handling of kernel offsets.
If lseek() appears suspect, Configure activates
the
use of a private lseek() function. Changed
the private nlist() function to nlist_private()
and taught it to use the query_module() syscall in
place of the deprecated get_kernel_syms() one.
Added rudimentary AX.25 support for Pierfrancesco
Caci <ik5pvx@infogroup.it> who helped test it.
Updated the old get_kernel_syms() code to recognize
and skip module name entries.

Prompted by Marty Leisner <leisner@sdsp.mc.xerox.com>,
eased the requirement that service name lookup for
the -i option be accompanied by a protocol name. The
name is not needed if both TCP and UDP names yield the
same port number.

Added xusers.awk script from Dan Mercer <damercer@mmm.com>
to the distribution scripts/ subdirectory.

Changed Configure script to use LSOF_VERS for all
UNIX dialect version numbers and to pass LSOF_VERS
to the dialect Mksrc functions. Also added the
ability for a dialect stanza to declare a different
dialect Makefile source. Modified dialect Mksrc
files
-- e.g., linux and sun -- accordingly.

Added support for BSD/OS 3.0 with help from Jim
Reid <jim@mpn.cp.philips.com>. Terry Kennedy
<TERRY@spcvxa.spc.edu> kindly provided a test
system. During the port corrected a bug that
prevented proper handling of revoked files.

4.03 April 7, 1997
At the suggestion of Dan Mercer <damercer@mmm.com>,
made HP-UX building of lsof aware of differences
between the HP-UX bundled and unbundled C compilers.

Added the ability for the lsof builder to define the
default warning message issuance state. By default the
issuance of warning messages is disabled; defining
WARNINGSTATE in machine.h disables it. The Customize
script was updated to handle WARNINGSTATE. Dan Mercer
suggested this.

Eliminated compiler complaint about improperly cast
get_Nl_value() argument in ncache_load() in lib/rnch.c.

Corrected zeromem() argument error in SCO dproc.c.
Sped up parent directory cache lookup slightly.

Updated for PTX 4.4,
including additional VxFS (EFS)
file system support.

4.04 April 17, 1997
At the suggestion of Bela Lubkin <belal@sco.COM>
changed device cache handling to be more tolerant

of a device cache file whose [cm]times are older
than the ones on /dev or /devices. The change
required adding information to Solaris device cache
file clone lines, so the first time lsof 4.04 is
run under Solaris it will complain about a bad
cached clone device in a previous device cache
file, then regenerate it.

Added boot file path detection for SCO OSR 5 and
above, based on information supplied by Bela.

Fixed two bugs in DEC OSF/1 lsof -- an error in
reporting locks and a missing continue statement
in readdev() after a failure to open a directory.
Jan Ole Suhr <josuhr@informatik.tu-clausthal.de>
reported the second bug and supplied a fix.

Fixed XFS problems with IRIX 6.2 by abandoning the
idea that SGI will distribute XFS header files and
defining an lsof-private xfs_inode
structure. John
Paul Morrison <John.Paul.Morrison@MultiActive.com>
helped develop and test the 5.3 definition. John
R. Vanderpool <fish@daacdev1.gsfc.nasa.gov> helped
develop and test the 6.2 definition.

Remove obsolete comments about common/*.frag files.

Updated Linux lsof for Linux version 2.1.35.

4.04 April 18, 1997
Supplement Regenerated the 4.04 distribution to correct a non-
device-cache #define misplacement in the Solaris and
SunOS dlsof.h. Alexandre Oliva <oliva@dcc.unicamp.br>
reported the problem.

4.05 April 24, 1997
Corrected an error in 00DCACHE.

Made sure SCO /etc/ps/booted.systems is closed.

Based on an observation by Bela Lubkin <belal@sco.COM>
that the lsof child had needless file descriptors
open, closed all but the open pipes between the
lsof parent and child.

Decommissioned CDC EP/IX support; I no longer have a
test system.

Based on a suggestion from Patrick Connor
<connor@phreak.csd.sgi.com>, added -xansi to
CFLAGS
for IRIX 5.3 and 6.[234].

Also at Patrick's suggestion changed Configure to
propagate exact SunOS 4.1.x version to the main
and library Makefiles. This allowed the sunos413
and sunos413cc Configure abbreviations to be
shortened to sunos and sunoscc.

Updated obsolete argument uses (-H changed to -n)
in count_pf.perl* and watch_a_file.perl scripts.

Adjusted Solaris 2.6 lsof for Beta_Update with tips
from Casper Dik <casper@holland.Sun.COM>.

Fixed a Solaris 2.4 TCP address reporting bug.

4.06 April 30, 1997
Added a step to the Makefile clean rules that does
a make clean in the lib subdirectory; suggested by
Casper Dik <casper@holland.Sun.COM>. (Configure's
-clean argument already did this.)

Fixed an incorrect awk argument in the sunos*)
Configure stanza, reported by Alexandre Oliva
<oliva@dcc.unicamp.br>.

Added CD9660 (aka ISO) file system support to
FreeBSD, NetBSD, and OpenBSD with mods and help
from Kenneth Stailey <kstailey@disclosure.com>.
(BSDI
already had CD9660 support.) While at it,
added file descriptor system support to BSDI and
FreeBSD.

Added /kern file system support to OpenBSD. The
support wasn't extended to BSDI, FreeBSD, or NetBSD,
because it requires Kenneth Stailey's changes to
/sys/miscfs/kernfs/kernfs.h.

Updated IRIX 6.3 support after getting access to
a test system, provided by John Paul Morrison
<John.Paul.Morrison@MultiActive.com>. Improved
the handling of IRIX 5.1 and greater FIFOs.

4.07 May 12, 1997
Based on AIX problem reports from David Capshaw
<David.Capshaw@SEMATECH.Org>, changed the aix*
Configure script stanza to avoid -bnolibpath for
gcc (which the GNU loader doesn't grok) and AIX
below 4.1.4 (where -bnolibpath hasn't been tested
or is known to be unimplemented), and to refuse to
use gcc for compiling lsof in AIX versions below
4.1 (because of possible structure alignment
problems). Updated 00FAQ appropriately.

Added OpenBSD support
for EXT2FS. This support
has yet to be tested.

Tested lsof under OpenBSD 2.1.

Activated /kern file system support for NetBSD when
Configure senses that /sys/miscfs/kernfs/kernfs.h
defines the kern_target structure. This support
has not been tested under NetBSD, although it has
been tested under OpenBSD.

Made some simple changes to the BSDI machine.h,
suggested by Jeffrey C. Honig <jch@bsdi.com>.

Improved handling of alternate dialect Configure
abbreviations -- aix and aixgcc, hpux and hpuxgcc,
solaris and solariscc, and sunos and sunoscc.

4.08 May 23, 1997
Cleaned up dialect Makefile's, staring with a suggestion
from Christopher Schanzle <chris@cam.nist.gov>.

Improved Configure's -clean processing.

Corrected bugs in Solaris lock reporting.

Changed NetBSD Configure stanza to put -I/usr/include
before -I/sys.

4.09 June 1, 1997
Adjusted for latest FreeBSD 3.0 release. This
required adding a new kernel name cache module for
reading
BSD-form hashed kernel name cache entries,
rnmh.c, to the lsof library, and adding a #define
to each machine.h to select it.

Activated rnmh.c for BSDI 2.1, BSDI 3.0, NetBSD
1.2, and OpenBSD 2.1.

4.10 June 8, 1997
Adjusted for Linux 2.1.x (x > 35) kernels with
hashed task structure pointers. Marty Leisner
<leisner@sdsp.mc.xerox.com> and Jonathan Sergent
<sergent@io.com> tested the adjustment.

Replaced readdev() stat() calls with lstat() to
reduce device table and cache entries with the same
device number and inode values. Added code to
remove all remaining duplicates. This fixes a
Linux problem reported by Jonathan Sergent and
makes device node name output predictable.

Corrected a bug in UnixWare stream file handling
that prevented searching for the stream file by
its associated character device name.

Added Pyramid code to determine Reliant UNIX clone
major device number differently from that of DC/OSx.

4.11 June 12, 1997
Changed Configure
to sense that the PTX inp_[fl]addr
members of the inpcb structure of <netinet/in_pcb.h>
have a struct type and set HASINADDRSTR for use in
PTX dnode.c and dsock.c tests.

Changed PTX version 4.1.4 tests to use 4.1.3 instead.
Carson Wilson <carson@mcs.com> reported the need
to do this and tested the change.

Fixed a block device table indexing bug in lib/rdev.c,
reported by Carson Wilson. The same bug was squashed
in pyramid/ddev.c.

Added code to the Pyramid Reliant UNIX kread()
function to compensate for an address boundary
error in the kernel's /dev/kmem driver.

Verified that lsof compiles and works under AIX
4.2.1. Added an AIX test for the presence of NFS
header files, defined HAS_NFS and adjusted AIX
dialect sources accordingly.

Based on a suggestion from Gaylord Holder
<holder@phy.ucsf.EDU>, added DEC OSF/1 code to
auto-detect the booted file, whence kernel symbol
addresses are obtained.

4.12 June 24, 1997
Corrected a device
number sign extension problem
in the reading and writing of device cache file.
The problem was reported by Bela Lubkin <belal@sco.com>
and he suggested a fix.

Fixed an SCO stream device lookup problem. The
report and solution came from Bela Lubkin

Enhanced the Configure script to enable cross-
configuration of lsof, based on suggestions from
Marty Leisner <leisner@sdsp.mc.xerox.com>. A new
documentation file, 00XCONFIG, describes the process.

Made Pyramid OBJFS support conditional on the
presence of supporting header files. Corrected
the Pyramid MkKernOpts script so it generates the
necessary -D's for the Nile/Jolt architecture.
Richard Coley <rcoley@pyra.co.uk> helped.

Added another IRIX xfs_inode variant for 6.2, 32
bits, no XFS rollup patch.

Tested under UnixWare 2.1.2.

4.13 July 9, 1997
Taught Pyramid lsof to grok ttyfs vnodes with help
from Richard Coley <rcoley@pyra.co.uk>. Fixed some
minor bugs in Pyramid FIFO reporting. Eliminated
use
of the Pyramid UCB compatibility library at
Richard's suggestion.

Eliminated reporting of "strange" inode numbers
for SCO OSR 3.2v5.0.x HPPS files with help from
Bela Lubkin <belal@sco.com>

Modified port to service name lookup to use a small
number of getservbyport() calls before reading the
entire map with getservent(). Changed port reporting
to represent a zero as `*' to be consistent with
other prt number reporting tools like netstat.

Casper Dik <casper@holland.Sun.COM> suggested these changes -- the getserv*() one to improve performance for large NIS service name maps.

Changed all readdev() functions to make the absence of block devices a warning instead of a fatal error after Brian Redman <ber@ms.com> reported his IRIX 6.4 system had no block devices. (It really did have block devices, but readdev()'s lstat() use caused it to miss them in a directory symbolically linked from /dev/dsk->/hw/disk.) Fixed Brian's real problem by changing the IRIX readdev() to use stat() on /dev nodes if a Configure test shows /hw is readable. Extended the potential to do the same to all readdev() functions.

For consistency and convenience changed some Configure abbreviations and dialect subdirectory names: "decosf" abbreviation and "osf" dialect subdirectory name to "du"; "netbsd" dialect subdirectory name to "n+obsd"; "next3" abbreviation and "next" dialect subdirectory name to "ns"; "sco" abbreviation and dialect subdirectory name to "osr"; "sgi" dialect subdirectory name to "irix"; and "unixware" abbreviation and dialect subdirectory name to "uw".

Added #if/#endif clauses to the AIX rmdupdev() function to avoid clone processing for AIX versions less than 4.1.4. The problem was reported by Toralf Foerster <toralf.foerster@io-warnemuende.de>, who supplied corrective code.

Added support for new style NetBSD inode with i_ffs and i_e2fs union members.

Improved Configure and 00FAQ information on Digital UNIX configuration subdirectory with suggestions from Brad Krebs <brad@EECS.Berkeley.EDU>.

4.14 July 22, 1997

Reorganized the Solaris handling of the inode structure header file, ufs_inode.h, to eliminate VxFS structure definition conflicts for Solaris 2.4, based on information from Greg Earle <earle@netbsd4me.jpl.nasa.gov>.

Cleaned up some typos and confusion in Configure's help output, based on comments from Bela Lubkin <belal@sco.com>

Added a 00DIALECTS file, containing UNIX dialect version numbers, that can be used by Configure and the man page.

4.15 August 15, 1997

Aligned `Configure -help` output better. Removed Configure's 2.6 Beta test adjustments.

Added improved Solaris VxFS configuration and handling, based on information from Greg Earle <earle@netbsd4me.jpl.nasa.gov>.

Added socket state -- TCO or TPI -- for socket files at the suggestion of Ian Fitchet <I.D.Fitchet@ftel.co.uk>.

4.16 September 25, 1997

Added reporting of TCP/TPI queue lengths and window sizes ala netstat to NAME column. Added -T option to select or de-select TCP/TPI info reporting. (Window sizes are only reported for Solaris.) Fixed anomalies along the way in SIZE/OFF processing for some dialects.

Fixed service name argument processor to allow minus signs as part of the name. Consequently this disallows names with embedded minus signs from being specified as the start of a range.

Added 00FAQ entries explaining why lsof won't find a file being edited with vi, why window sizes aren't reported for all dialects, and what the "no more information" message means.

Forced Pyramid CC to be /usr/ccs/bin/cc to avoid accidental use of the BSD variant in /usr/ucb/cc.

Added support for Linux glibc2, including a Configure test; cross-Configure support (00XCONFIG); and much unfortunate and risky sleight-of-hand in lsof Linux dialect header and source files, forced upon lsof by incompatibilities

between Linux kernel and glibc2
header files.

Included in scripts/identd.perl5 a Perl 5 implementation
of an identd server, using lsof, provided by Kapil
Chowksey <kchowksey@hss.hns.com>.

Updated IRIX 6.4 xfs_inode guess.

4.17 October 14, 1997
Added -V option for verbose search result reporting.
Verbose reports are prepared for failure to locate
file names, command names, Internet addresses or
files, login names, NFS files, PIDs, PGIDs, and UIDs.

Augmented Linux NFS file test to cope with kernels
whose NFS code is in a loadable module. Need for
the test was pointed out by Jonathan Sergent
<sergent@csociety.ecn.purdue.edu>. The change
required that Linux have private dmnt.c source,

Completed a Linux 2.1.57 port on a system provided
by Jonathan Sergent.

4.18 October 25, 1997
Eliminated memory leaks in alloc_lfile(), lkup_port(),
and NEXTSTEP's process_text() function.

Added recognition of OpenBSD 2.2 in Configure,
supplied
by Kenneth Stailey <kstailey@disclosure.com>.

Consolidated print_file() functions to use the one
in lib/prtf.c. Made it configurable and changed
it to size print columns dynamically.

!!! WARNING !!!

WITH DYNAMICALLY SIZED PRINT COLUMNS LSOF 4.18
PRODUCES OUTPUT SIGNIFICANTLY DIFFERENT FROM THAT
OF PREVIOUS REVISIONS. LINES ARE GENERALLY SHORTER
AND THERE IS GENERALLY LESS BLANK SPACE BETWEEN
COLUMNS AND THE ITEMS IN THEM. THERE ARE NO LONGER
ANY SPACES BETWEEN DEVICE NUMBER ELEMENTS, ONLY
COMMAS.

!!! WARNING !!!

Added special types and print specification modifiers
for file size and offset to handle UNIX dialects
with 64 bit sizes and offsets. Paul Eggert
<eggert@twinsun.com> reported the need for this
addition.

With Paul Eggert's help picked lint from the lsof
library, the main level lsof sources, and the Sun
dialect sources.

Added documentation, including the file 00LSOF-L,
about the lsof-l LISTSERV.

Added support for Reliant
UNIX on the RM600. Bob
Passarella <rmpassar@pyramid.com> supplied the
changes. Kevin Smith <kevin@pyramid.com> helped
arrange test systems. While incorporating Bob's
changes, modified lib/rnch.c to handle kernel ncache
structs whose name is accessed via a char *, rather
than in a char array.

Changed #include order of <sys/socketvar.h> for
Solaris 2.x. W. Richard Stevens <rstevens@kohala.com>
pointed out the need to do this.

4.19 October 30, 1997
Changed Pyramid Reliant RM600 proc scan to skip
SSYS (p_flag) processes, since they don't seem to
have a readable u_cdir vnode.

Enabled Pyramid Reliant UNIX kread() work-around
for DC/OSx, too, since its read(/dev/kmem) kernel
driver seems to share the page boundary bug this
work-around circumvents.

Changed SzOffFtm_d and SzOffFtm_dv (new formats at
4.18 to print size and offset) from signed to
unsigned. Setting them signed at 4.18 was an
oversight.

Plugged a memory leak that caused the loss
of 130
bytes per repeat-mode pass. Fixed it with a simple
work-around in main(). Lionel Cons <Lionel.Cons@cern.ch>
reported the leak.

4.20 November 11, 1997

Tested under BSDI 3.1.

Added support for Reliant UNIX Mesh IPC files with
help from Billy Ho <bho@pyramid.com>.

Added support to Digital UNIX lsof that uses the
libmsfs tag_to_path() function (when it exists) to
look up AdvFS path names. The idea and sample code
came from Dean Brock <brock@cs.unca.edu>. Converted
Dean's code into more general purpose support for
private name cache lookups via the HASPRIVNMCACHE
#define in the dialect machine.h file and code
conditional on it in the printname() function.

Taught Digital UNIX lsof to recognize NFS3 file
systems. Corrected Digital UNIX lsof DEVICE column
alignment.

4.21 December 1, 1997
Squashed bug, introduced at revision 4.18, that
resulted in double reporting of each selected PID
when terse mode (-t) was specified.

Corrected minor
bug, also introduced at 4.18, that
might cause an extra print_proc() pass when one
PID has been specified.

Added -R to lsof options in scripts/idrlogin.perl*.
The option should have been there -- it was supposed
to be mandatory for PGID reporting -- but a bug,
corrected in revision 4.18, previously made -R
unnecessary.

Enabled configuring for BSDI BSD/OS 4.0 per a
suggestion from Jeff Honig <jch@bsdi.com>.

Enabled replacement of scoff_t with off64_t (scoff_t
is used to type r_size and r_localsize in the rnode
struct) for IRIX 5.3 systems that have the NFS
kernel rollup patch (1477). This compensates for
SGI's failure to distribute an updated <sys/fs/rnode.h>
with their patch.

Validated under Linux 2.0.3[12], Linux 2.1.64, and
NetBSD 1.3.

Added FreeBSD root directory reporting, courtesy

of Dan Nelson <dnelson@emsphone.com>.

4.22 December 15, 1997
Made adjustments for Linux 2.1.7[02].

Improved NAME information for Linux UNIX domain
sockets.

Added
option +|-M to control the reporting of
portmapper registration information in square
brackets after the TCP or UDP port or service name.
Kenneth Stailey <kstailey@disclosure.com> suggested
the feature and provided sample code from OpenBSD.
Reporting is disabled by default in the distribution
and may be enabled with +M; if lsof is compiled
with HASPMAPENABLED (e.g., from machine.h), reporting
will be enabled by default and can be disabled with
-M.

Changed the -w option to +|-w to match the syntax
of the +|-M option and to eliminate any options
that flip meaning when a symbol is defined at
compile time. For both +|-M and +|-w, specifying
`-' when the default state is disabled or specifying
`+' when the default state is enabled causes no
problems.

!!!WARNING The -w option has changed in lsof 4.22. WARNING!!!

Made the +|- prefix legal for most options, but
didn't document it in the man page or help panel.
Most options that disable
something -- e.g., -b,
-C, -n, -P -- now disable when the prefix is `-'
and enable when it is `+'. Since the states these
options disable are enabled by default, I chose to
avoid documentation complexity and confusion by
not mentioning that they can be used with the `+'
prefix.

Condensed the help panel.

Made sure Digital UNIX Configure stanza puts normal
include path (e.g., /usr/include) before system
include paths.

Added IPX socket information reporting to Linux

with help from Jonathan Sergent <sergent@purdue.edu>.

4.23 January 16, 1998
Fixed conflict arising from the quondam replacement
of the Sun Solaris <netdb.h> with a BIND/BSD version.

With help from Jonathan Sergent <sergent@purdue.edu>
developed a /proc file system based Linux lsof.
It needs some Linux 2.1.x release to work -- I'm
not sure which, but I tested under 2.1.72, 2.1.76,
and 2.1.79. The Configure script selects special
sources for this lsof, so the full lsof distribution
now
contains both /dev/kmem and /proc based sources
for Linux lsof. An optional kernel mod, written
by Jonathan, enhances the /proc-based lsof ability
to recognize IPX socket files. Reorganized and
augmented the Linux sections in 00FAQ to explain
the two types of Linux lsof.

Defined DOSTAT_FUNCTION for dostat() in misc.c to
select the function, stat() or lstat(), it will use.
DOSTAT_FUNCTION is normally undefined, defaults to
lstat(), and is only defined for the /proc-based
Linux lsof in its dlsof.h.

Made conditional on the presence of IRIX 6.4 XFS
rollup patch #6 an XFS node change introduced in
revision 4.16. Identified the patch with help
from John R. Vanderpool <fish@daacdev1.gsfc.nasa.gov>.

Added NFS node compensation for NetBSD 1.3. The
code and suggestion for it was supplied by Jean-Luc
Richier <richier@imag.fr>.

Added diagnostic messages to the /dev/kmem-based
Linux Mksrc script to report errors during the
construction of
the kernel name cache header file,
kncache.h. Added 00FAQ information on kncache.h.

Added a new Linux test host, running 2.0.33 and
GlibC, provided by Steve Logue <stevel@mail.cdsnet.net>.

Ported to PTX 4.1.3 and 4.4.2. Adjusted lib/rnch.c
for 4.4.2 to allow customization f additional ncache
struct element names.

4.24 January 28, 1998
Changed /proc-based Linux lsof offset test to use "/"
instead of "/etc/passwd".

To assist Jim Mintha <jim@geog.ubc.ca> with the
packaging of lsof for Debian Linux, added a
DEBIAN_LINUX_LSOF #define to trigger the activation
of special system map file location code in the
/dev/kmem-based dproc.c.

Applied modification to dialects/bsdi/dlsof.h from
Ingimar Robertson <iar@skyrr.is>, enabling lsof to
compile for BSDI BSD/OS 2.0.

Corrected a documentation error in 00DCACHE, pointed
out by Thomas Anders <anders@hmi.de>. The error was
created when the -V option was added at lsof 4.17.

Made IRIX 5.3 through 6.3 lsof
aware of IRIX SCSI
tape devices (e.g., /dev/tape). Dave Olson of SGI
and Randolph J. Herber of FNAL provided valuable
advice, and Igor Schein <ischein@air-boston.com>
helped test.

Added a machine.h symbol (NEVER_HASDCACHE) that
prevents Customize from offering to change HASDCACHE.
The symbol may appear anywhere in machine.h --
e.g., in a comment. Included the symbol in a
comment of the HASDCACHE section of the /proc-based
Linux lsof machine.h, and accompanied it with
warnings against #define'ing HASDCACHE. Did the
same thing for WARNDEVACCESS (NEVER_WARNDEVACCESS
is the suppressant.)

4.25 February 7, 1998
Corrected an IRIX mis-cast of file offset (position).
Igor Schein <ischein@air-boston.com> reported the
problem. This was offered as a patch to 4.24.
Picked some lint Igor pointed out.

At Igor's suggestion added an optional decimal
digit size argument to the -o option. This argument
specifies how many file offset decimal digits can
follow
"0t" before lsof switches to a "0x..." form.
The argument size specification doesn't count the
two characters of the "0t". A size of 0 means

unlimited. The default is OFFDECDIG (8), preserving
compatibility with existing lsof output; it can be
changed by the lsof builder. When size is specified
with -o it does not force offset display; -o without
a size still must be used to do that.

Added an IRIX 6.2, 32 bit system, XFS node patch,
courtesy of Ulrich Bernhard <rzubu@rzu.unizh.ch>.

For my own convenience enabled Configure to use
/usr/local/bin/gcc for NEXTSTEP. This allows
circumvention of a gcc 2.8.0 ranlib problem on
my test 3.1 `040 cube.

Added flags recommended by the RISC/os and Ultrix
compilers for the updated (and longer) main.c.

Updated FreeBSD cd9660_node.h Configure test.

4.26 February 17, 1998
Added shared process group processing for IRIX 5.3,
and IRIX 6.1 and above, based on investigation of
a bug report from Igor Schein
<ischein@air-boston.com>.
Igor helped test this addition.

Improved handling of file system name arguments.
It's now done in a manner similar to fuser. The
-f argument forces path names to be considered as
simple files, rather than as file system names.
The +f flag forces them to be considered as file
system names. Normally path arguments are considered
file system names when they match a mounted-on
directory in the system's mount table, or when they
match a mounted file system's block device. Igor
Schein helped test this change.

Igor also suggests that the proper compilation of
the IRIX 6.4 proc structure after patch 2536 has
been installed may need -DPIOMEMOPS. So lsof's
MkKernOpts script was updated to propagate that
option from CCOPTS in /var/sysgen/system/irix.sm,
even though patch 2536 doesn't add -DPIOMEMOPS to
it. Added a 00FAQ item on this patch.

Added a fatal warning message about names forced
to be file system names (with +f)

that have no
match in the mount table.

Improved the -V message for files and file systems
for which no open files were found. Added reporting
of /proc file and file system search failures.

Did some code reorganization to combine the multiple
ck_file_arg() functions into one. Moved the new
function from the library to the top level and put
it in arg.c; moved the usage function from arg.c
to a new top-level source file, usage.c, to balance
top-level source file size. The new usage.c depends
on version.h; arg.c no longer does.

Added flag recommended by the DU compiler for the
updated (and longer) main.c.

4.27 March 6, 1998
At the request of Igor Schein <ischein@air-boston.com>
added a conditional repeat mode option, using the
`+' prefix to the `r' option. +r operates as does
-r with the exception that it exits the first time
no open files have been listed during a cycle.
The exit code will be zero when any open files have
been listed; one,
if none were ever listed.

Ported lsof to HP-UX 11.0 with the help of Richard
Allen. This port hasn't been tested on a 64 bit
kernel; I'm sure it won't work there without more
mods. It may not work on PA 2 architectures; I've
only tested it under PA 1 and a separate, busy
tester reported PA 2 problems that I've been unable
to investigate.

In anticipation of getting access to a 64 bit HP-UX
kernel and the pending start of the Solaris 2.7
Beta test (It will have 64 bit kernel addressing.),
started adding support for 64 bit kernel pointers.
This includes: ubiquitous use of the KA_T cast
for kernel pointers; a format to print them,
KA_T_FMT_X; a function to print them, print_kptr();
and modifications to most kernel-related functions
-- e.g., process_file(), process_node(),
process_socket(), readvfs() -- to process kernel
addresses as KA_T types.

Fixed minor bug in handling path name arguments
that end with a `/'.

Removed support for RISC/os;
its test system is no
longer available.

Made modifications to insure that lsof output
doesn't contain non-printable characters. All such
characters are now printed in the printf form
"\x%02x". Several new common functions were
installed in misc.c to support "safe" printing.
This second major modification in 4.27 to common
and dialect code could have introduced bugs not
yet detected.

4.28 March 10, 1998
Refined unprintable format to use \b, \f, \r, \n,
\t, and ^* (for CTRL) forms. Corrected omission
of safestrprt() use for field output command name.
These changes were offered as patches to 4.27.

Made space an unprintable character (\x20) in the
COMMAND column; printable elsewhere, including the
NAME column, field output, and error messages.

Made sure FD column is parseable as a single entity
-- i.e., has no embedded space. Thus, if the access
mode is unknown but there is a known lock mode, (a
very rare case) the access mode will be printed
as
`-'.

Picked lint with gcc 2.8.0 under Solaris 2.6.

With the help of Dave Olson of SGI identified a
proc struct element that should have been added to
<sys/proc.h> by IRIX 6.4 patch 2536. Added a
work-around for it to the lsof Configure script.
Igor Schein <ischein@air-boston.com> identified
that the patch caused a proc structure length
complaint from lsof. Removed an obsolete 00FAQ
item on the patch, installed at lsof 4.26, explaining
that no solution was yet available.

Added a 00FAQ item on how BIND installs its own
header files, including <netdb.h>, which may cause
the rpcent struct definition to vanish. Solaris

has an automatic lsof work-around, but that hasn't
been (and probably can't be) propagated to all
dialects supported by lsof. The 00FAQ item recommends
re-installation of the vendor header files that
BIND has replaced. (Others include <rpcent.h>,
<sys/bitypes.h>, and <sys/ctypes.h>.)

Made AIX AFS fixes.

4.29 March 26,
1998

Corrected bug in Internet address matching. The
matching formerly stopped if the foreign address
matched, thus failing to check the local address
for a match. That led to a possible false "Internet
address not located" warning (i.e., in response to
-V) about the local address, when both foreign and
local addresses were specified with -i. This
correction was offered as a patch to 4.28.

Changed readmnt() usage in an attempt to defer
mount readlink() and stat() delays until they are
necessary.

Corrected two bugs in the Digital UNIX readdev()
function. Made the correction available as a patch
to 4.28 and regenerated the 4.28 DU binaries.

Added a missing argument to a print-kptr() call in
the HP-UX dsock.c. The missing argument causes a
fatal gcc error. The problem was reported by Eyal
Shaynis <eyal.shaynis@telrad.co.il>. The fix was
offered as a 4.28 patch.

Adjusted for Digital UNIX 4.0D; the spec_node
structure is now defined in
<sys/specdev.h>. Kris
Chandrasekhar <Kris.Chandrasekhar@digital.com>
identified the need for the adjustment.

Incorporated a bug fix from Brian McAllister
<mcallister@mit.edu> to the DU readmnt() function.
This fix was offered as a patch to 4.28.

Added "safe" printing to a SunOS clone device error
message.

Corrected bug in tabling of Linux /proc-based lock

info.

Corrected bug in handling of SunOS TLI streams.
Dan Farmer <zen@trouble.org> reported the problem.

Added a Solaris 2.6 work-around to keep the BIND
<sys/bitypes.h> from colliding with the Solaris
<sys/int_types.h>.

Strengthened the Configure test for /proc-based
Linux lsof, based on a report from Marty Leisner
<leisner@sdsp.mc.xerox.com>.

Tested on OpenBSD 2.3.

Made AIX changes that allow use with 3.2.5. The
changes were suggested and tested by Brett Hogden
<hogden@rge.com>.

Added Solaris 2.6 AFS support. Disabled reporting
of some node numbers for Solaris 2.5 and above open
AFS
files. The node number computation algorithms
used for SunOS 4.1.x and Solaris less than 2.5 no
longer always work under Solaris 2.5 and above.

4.30 April 9, 1998
Corrected a pid structure member naming error for
UnixWare < 2.1.2. The problem was reported by
Richard van Meurs <vanmeurs.anva@atriserv.nl>. He
supplied the correction. This was offered as a
patch to 4.29.

Had a report from Igor Schein <ischein@air-boston.com>
that IRIX 6.4 patch 2839 is another SGI kernel
patch, along with 2536, that changes the size of
the proc structure in the kernel without changing
the proc structure in <sys/proc.h>. Upon further
investigation found that the effect of these patches
on the proc structure is not consistent. Therefore,
dropped the Configure patch test for IRIX 6.4 and
made the code in irix/dproc.c slightly more tolerant
of proc structure size differences for IRIX 6.4.
Igor help test the change.

Corrected Solaris >= 2.5 AFS inode number
generation.
Craig Everhart <Craig_Everhart@transarc.com> helped

find the cause of the problem. This was offered as
a patch to 4.29.

Refined the Linux /dev/kmem-based glibc evasion
for the timeval structure to make it work with
glibc version 2.0.7. This required defining a new
global symbol, TIMEVAL_LSOF, default timeval, that
the /dev/kmem-based Linux lsof can set to its
private glibc timeval name, distinct from the kernel
timeval name.

Added support for Alpha to the /dev/kmem-based
Linux lsof. Alexandre Oliva <oliva@dcc.unicamp.br>
provided a test system. Added an item to 00FAQ
about lsof, the Alpha processor, and Linux.

Added a 00FAQ item about lsof year 2000 compliance.
Basically it says lsof is probably compliant,
because its only date or time computations are done
with time_t values, but I haven't done any specific
Y2K validation. I don't have plans to do any.

Added support for UnixWare 7. Chris Daniels
<chrisd@dlpco.com> provided
a test system and Don
Draper <dond@sco.COM> provided technical information.
Added BFS and SFS file system support to lsof for
UW 2.1.[12] and 7.

Updated Solaris VxFS support for VxFS 3.2.1. Greg
Earle <earle@netbsd4me.jpl.nasa.gov> reported the
need for the update. Greg and Roger Klorese
<rogerk@veritas.com> provided technical information.
Scott McClung <mcclung@primenet.com> tested.

Changed IRIX XFS patch detection in anticipation of
learning there are multiple XFS patches for IRIX 6.4
that require different versions of the lsof-invented
xfs_inode structure.

4.31 April 21, 1998
Added a VxFS #if/#endif wrap to a section of the
HP-UX dnode.c that wasn't properly protected. The
problem was reported by Peter Klosky <PKlosky@bdm.com>.
This was offered as a patch to 4.30.

Added support for Solaris 2.7 (first Beta release).
Mike Sullivan <Mike.Sullivan@Eng.Sun.COM> provided

technical advice and helped test. Charles Stephens
<cfs@jurassic.eng.Sun.COM>
also helped test.

Fixed bug in /proc-based Linux that caused it to
access /proc/mounts excessively. Marty Leisner
<leisner@sdsp.mc.xerox.com> provided a syscall
trace that identified the bug. The fix was offered
as a patch to 4.30.

Adjusted the IRIX 6.4 private structure definition
for the XFS node to accommodate patch 2970. Igor
Schein <ischein@air-boston.com> identified the
patch and the required adjustment.

4.32 May 11, 1998
Corrected Solaris 2.7 code for reporting PCFS
(floppy disk) node numbers. Casper Dik
<casper@holland.sun.com> supplied the fix. The
fix was offered as a patch to 4.31.

Corrected a bug in conditional repeat mode handling
pointed out by Igor Schein <ischein@air-boston.com>.
This was offered as a patch to 4.31.

Improved reporting of AIX open(/dev/memory device)
errors.

Corrected a Solaris < 2.5 KA_T declaration error,
pointed out by Robert Kiessling <robert@easynet.de>.
Changed KA_T from a #define
to a typedef for all
dialects to prevent future problems of this kind.

Changed the sample Perl 5 script big_brother.perl5
to report a four digit year from localtime().

Added support for AIX 4.3[.1]. Bill Pemberton
<wfp5p@tigger.itc.virginia.edu> provided a test
system. Andrew Kephart <akephart@austin.ibm.com>
and Tom Weaver <tvweaver@austin.ibm.com> provided
technical assistance. Niklas Edmundsson
<nikke@ing.umu.se> did 4.3.1 testing.

Added -qmaxmem option to CFLAGs for an AIX compilation
with an xlc version 4.x compiler.

Adjusted Linux socket handling for changes in the

AX25 members of the sock struct. Richard Green <rtg@tir.com> pointed out the problem. Tested /dev/kmem-based lsof under Linux 2.0.34.

4.33 May 22, 1998

Added generic IPv6 support to common lsof sources and specific IPv6 support to AIX sources. Andrew Kephart <akephart@austin.ibm.com> supplied the additions and helped with testing. Bill Pemberton <wfp5p@tigger.itc.virginia.edu> provided a test system. The modification affected sources for every dialect, whether it supports IPv6 or not, by changing the interfaces to the common Internet address function ent_inaddr().

Added support for the NetBSD UVM virtual memory system. Paul Kranenburg <pk@cs.few.eur.nl> supplied technical details.

Bracketed HP-UX 11 use of <sys/spinlock.h> with #if/#endif _KERNEL.

Corrected printing of PCB address in DEVICE column for IRIX.

4.34 June 26, 1998

Updated 00FAQ to discuss TCP and UDP ports private to the AIX kernel and 00README to describe how ACLs can be used to give lsof permission to read the kernel memory devices. Add information to 00FAQ and 00README about other OpenBSD architectures where lsof is reported to compile and run. Added section to 00FAQ discussing how an incorrect loader path environment variable value can prevent lsof from loading correctly.

Improved Solaris namefs and doorfs support so that it is now possible to search for an open VDOOR file by the path name of its fattached file system object. Igor Schein <igor@txc.com> requested the ability to do such a search. Even with the change, lsof can't always identify path names for open VDOOR files.

Also at Igor's request, improved reporting of information on open Solaris VCHR files that share

a common vnode, and Solaris UNIX domain socket
files.

Corrected print_kptr() argument error in PTX dnode.c,
reported by Mark Price <mprice@sequent.com>.
Compensated for ncache element naming differences,
introduced at PTX 4.4.2; Kurtis D. Rader
<krader@sequent.com> reported the problem.

Changed output column title from INODE to NODE to
better reflect the column's contents of node IDs
for more than just inodes.

Improved Configuration and processing for Solaris
AFS. Corrected AIX AFS 3.4 afs_rwlock_t simulation.

Corrected a cast problem with two AIX knlist()
calls, thus quieting an AIX 4.2.1 compiler
argument
type warning. Jon Champlin <champlin@us.ibm.com>
reported the problem.

Added support to most dialect versions (exception:
/proc-based Linux) to warn when the identity of
the kernel where lsof was compiled doesn't match
the running identity. The warning can be suppressed
with -w. Note: determining AIX state requires
calling oslevel, a potentially slow operation.
Jon Champlin <champlin@us.ibm.com> suggested this
addition.

!!!! WARNING !!!! !!!! WARNING !!!! !!!! WARNING !!!!

Those using the lsof cross-configuration capability
(see 00XCONFIG), should be aware that the kernel
identity test feature introduces two new basic
cross configuration environment variables, LSOF_ARCH
and LSOF_VSTR.

!!!! WARNING !!!! !!!! WARNING !!!! !!!! WARNING !!!!

Identified a situation where a Solaris UNIX domain
socket name is known and can be searched for by
name; added the necessary code.

4.35 July 17, 1998
Made the kernel identity

check an option with the
HASKERNIDCK #define in machine.h. Enabled altering
of HASKERNIDCK with the Customize script. Added
a clause to the help output that indicates the
build-time HASKERNIDCK status.

Added more information to the NAME column for
Solaris UNIX domain sockets. Made them searchable
by their clone device path name. Igor Schein
<igor@txc.com> requested this.

Completed the HP-UX 11 port with support for its
optional 64 bit kernel. Rich Rauenzahn
<rrauenza@cup.hp.com> provided a test system.
Corrected errors with HP-UX 11 lock reporting and
private kernel structure and type definitions.
Added support for HP-UX NFS3 files.

Limited mount table warnings -- e.g., when -b is
used -- to one set per mount point.

Fixed some mount table scanning and usage bugs,
including one in Solaris, reported by Kjetil Torgrim
Homme <kjetilho@ifi.uio.no>.

4.36 August 4, 1998
Made corrections and additions to IPv6 support and
to AF_ROUTE socket
handling, supplied by Jean-Luc
Richier <Jean-Luc.Richier@imag.fr>. Jean-Luc's
additions provide IPv6 support for the Inria IPv6
implementations on FreeBSD and NetBSD.

Fixed two Solaris 2.5, 2.5.1, 2.6 and 2.7 TCP and
UDP host name or IP address reporting bugs, reported
by James Mathiesen <James-Mathiesen@deshaw.com>.
This fix was offered as a patch to 4.35.

Updated the Customize script to cause ENTER to use
all defaults. Amir J. Katz <amir@ndsoft.com>
suggested this and helped test the changes.

Updated Solaris ICMP and IP stream handling, based
on a report from Igor Schein <igor@txc.com>.

Fixed a bug in the Digital UNIX mount table handling,
reported by Bob Ward <bward@thehartford.com>.
While working on the bug, found and updated some

obsolete AdvFS code. This fix was offered as a patch to 4.35.

4.37 September 15, 1998

Deactivated SGI IRIX support and archived revision 4.36 sources and binaries in pub/tools/unix/lsof/OLD.

Improved performance of FD searching. This was offered as a patch to 4.36.

Amir J. Katz <amir@ndsoft.com> pointed out that ranlib isn't needed for AIX or Solaris. Made appropriate Configure script changes.

Fixed a file offset reporting bug for HP-UX VCHR and VBLK device nodes located on a VxFS root. Doug Siebert <douglas-siebert@iowa.edu> reported the bug. The fix was offered as a patch to 4.36.

Resolved an HP-UX root device name reporting bug, partly caused by an out-dated local copy of the <sys/mount.h> mount structure, by generating a local header file with the structure that can be compiled without needing _KERNEL defined. Doug Siebert also reported this bug.

Changed some dialect source code -- Digital UNIX, Solaris, SunOS, and UnixWare -- to make more consistent with ps the user ID lsof reports in the USER column. Added a 00FAQ entry about it. Igor Schein <igor@txc.com> reported the Solaris and SunOS lsof inconsistencies with what ps(1) reports.

Ported lsof to Pyramid ReliantUNIX 5.44.

Added brackets as comments to case, do, done, else, endif, esac, if, and while statements in Configure to assist in navigating its clauses.

Added more Linux 2.0.x glibc work-arounds.

Added support for UnixWare 7.0.1.

Ralph Forsythe <ralph@contact-paging.com> provided a new FreeBSD test system.

4.38 November 25, 1998

Added support for recent FreeBSD 3.0 distributions. A 3.0 test system was provided by David O'Brien <obrien@NUXI.com>. This was offered as a patch to 4.37.

Updated the scripts/idrlogin.perl* files to look for sshd processes in addition to rlogind and telnetd ones.

Added support for DU 5.0 Beta. Berkley Shands <berkley@cs.wustl.edu> provided a test system.

Added support for OpenBSD 2.4 with changes supplied by Kenneth Stailey <kstailey@disclosure.com>.

Changed the Solaris 2.7 tests and documentation to Solaris 7.

Made some changes to the header files for NEXTSTEP 3.3 and added support for OPENSTEP 4.x with help from Michael A. Hovan III <mhovan@BLaCKSMITH.com> and Carl Lindberg <Carl_Lindberg@BLaCKSMITH.com>. The combined dialect subdirectory is named n+os. One of Carl's changes propagates RC_CFLAGS to the library Makefile. Timothy J. Luoma <luomat@peak.org> helped test under NEXTSTEP 3.3 and OPENSTEP 4.2.

Made UW 7.x version sensitive to the presence of ptf7038. Added peer PCB address to Unix domain socket Name column, even when a path name has been located. Information for these changes was supplied by Francis Le Bourse <flebourse@intelcom.fr>. Lee Penn <lee@dlpco.com> provided a test system.

Tested lsof under OSR 5.0.5 on a test system also provided by Lee Penn.

Made path name argument processing more tolerant of errors per a suggestion from Julian Gordon <julian@cadence.com>.

Acquired a new UnixWare 2.x test system, generously provided by Computer Classroom, Inc. -- Matthew Thurmaier <matt@compclass.com>, Ken Laing <ken@compclass.com>, and Andrew Merril

<andrew@compclass.com>. Updated Configure to accept a UnixWare version of 2.1.3.

Updated kmem-based lsof for Linux 2.0.36.

Updated NetBSD sources for a change in a UVM virtual mapping header file.

Corrected a cache allocation bug in Sun format kernel name cache handling. The bug only shows up when the kernel name cache is inaccessible.

4.39 December 29, 1998

Corrected problems with large device number handling for 64 bit Solaris 7. The problems were reported by Steve Bellenot <bellenot@math.fsu.edu>. Steve helped test the fixes. The fixes were offered as two patches to lsof 4.38.

Improved FreeBSD Configure operations for header files that must be obtained from the kernel source tree, based on a suggestion from David O'Brien <obrien@NUXI.com>.

For Bela Lubkin <filbo@deepthought.armory.com> made optional with +f[cfn] the display of file structure address, shared use count, and node structure address.
/proc-based Linux doesn't implement this feature, because it doesn't read kernel structures from kernel memory. Modified the PTX -X option to take advantage of the new file structure display option. Added shared.perl5 to the scripts/ subdirectory to provide an example of how +f[fn] might be used to track shared file descriptors and files.

Added more /dev/kmem-based Linux glibc evasions, provided by Jeff Johnson <jbj@redhat.com> and Maciej Lesniewski <nimir@kis.p.lodz.pl>. Jeff helped test them on various Linux architectures.

Tested on AIX 4.3.2; no changes were required. Doug Crabill <dgc@purdue.edu> provided a test system.

Fixed -c option to detect missing command name when following option begins with `+'.

4.40 January 25, 1999

Added support for using the CDS compiler for Reliant Unix 5.44 and above. Made Reliant Unix MIPC support optional, dependent on the presence of <sys/mipc.h>.

Based on a report from Michael Schmitz <MSchmitz@lbl.gov> that /dev/kmem-based lsof misbehaves on a Linux 2.0.x m68k kernel without module support, made the absence of query_module() or get_kernel_syms() Linux kernel support a fatal error. Updated relevant sections of 00FAQ to reflect the change.

Added the ability to force the Linux Configure stanza to use the /proc or /dev/kmem source base via a LINUX_BASE environment variable specification. This is a cross-configuration assist.

Added "+D <dir>" and "+d <dir>" options for directory searching. +D searches the entire tree, starting at <dir>, including <dir>, its contents, and its subdirectory branches; +d searches only <dir> and its contents, but not its subdirectory branches. Improved lsof's searching of the specified name list to compensate for anticipated long lists from +d and +D.

Made an egrep in the Solaris Configure stanza usable by the standard and XPG4 egrep's. Kenneth Stailey <kstailey@disclosure.com> pointed out the improvement.

Fixed bugs in /dev/kmem-based Linux and UnixWare Unix domain socket name searching.

Changed a Linux Alpha #include to be conditional on the presence of its named header file, so that lsof will compile on Red Hat 5.1 and 5.2 (Linux kernel 2.0.35) where the header file is absent. The problem was reported by Alexandre Oliva <oliva@dcc.unicamp.br>.

Fixed an AIX 4.3+ bug in procinfo struct space allocation, reported by Jeff Stewart <jws@purdue.edu>. This was offered as a patch to 4.39.

Added an lstatsafely() function to offer the same

isolation for lstat() calls that statsafely() offers
for stat() calls. This made DOSTAT_FUNCTION no
longer necessary, so deleted it.

With help from Laurent P. Montaron <lpm@sequent.com>
ported lsof to PTX 4.4.4. Laurent did a monumental
job of identifying TCP/IP changes by their TCP
version, rather than by their PTX (With mix 'n
match PTX and TCP/IP versions, the PTX version
often has no bearing
on the TCP/IP version.), and
changed the Configure script and pre-processor
#if/#else/#endif blocks to match. He also updated
Unix domain socket handling for PTX TCP/IP versions
4.5 and above.

Updated CLIENT handle acquisition of fill_portmap()
in print.c to use the more modern RPC function
clnt_create() in place of clnttcp_create() where
possible. PTX 4.4.4 requires clnt_create().

4.41 February 27, 1999
Added FreeBSD 3.1 and and 4.0 support with help
from Sheldon Hearn <axl@iafrica.com>, David O'Brien
<obrien@NUXI.com>, and John Polstra <jdp@polstra.com>.

Corrected bungled AIX 4.3+ patch that went into
lsof 4.40.

Reorganized the Configure script to improve Makefile
construction. A specific impetus for this was to
allow FreeBSD system-wide make flags to be propagated
to the lsof Makefiles, but other goals were to make
sure that the DEBUG= make entry can over-ride
standard CFLAGS values, and to better manage the
identification of compilers
and their versions.
Two compiler-related values may now be supplied in
environment variables: 1) the compiler path in
LSOF_CC; and 2) the compiler version in LSOF_CCV.
00XCONFIG documents them.

Added support for Pyramid Reliant Unix bsdsfs,
msockfs, and sockfs file systems.

Added an optional LSOF_CINFO string to Configure,
producing a CINFO string in selected Makefiles,
producing a #define LSOF_CINFO in selected version.h

header files. The purpose of this is to allow
Configure the option to propagate information to
the lsof -v output. It is now used for Linux to
identify the code base, and for HP-UX 10.30 and
11.0 and Solaris 7 to identify the kernel bit size.

Added system information to NEXTSTEP and OPENSTEP
-v output, from the second line of hostinfo's
output.

Fixed a login name buffer overflow problem in the
processing of -u option values. This was offered
as a patch to 4.40. !!!THIS IS A SERIOUS STACK
OVERFLOW BUG; A LINUX EXPLOIT
EXISTS FOR IT THAT
OPENS A BASH SHELL WITH LSOF'S AUTHORITY -- E.G,
SETGID(KMEM) POWER!!!

Improved the Solaris mount table filter so the
volume manager's fake mount point, "/vol", is
ignored and doesn't supplant "/" in NAME column
path assemblies. Igor Schein <igor@txc.com> reported
this bug and provided important help in finding
it. This was offered as a patch to 4.40.

Changed the Linux /dev/kmem-based lock ownership
test to answer a problem reported by Tom Christiansen
<tchrist@jhereg.perl.com>. This was offered as a
patch to 4.40.

Installed an HP-UX 11 patch, suggested by Kevin
Vajk <kvajk@cup.hp.com>, that adjusts a private
lsof kernel header file, derived via Q4, to correspond
to an HP-UX patch bundle.

Made NetBSD 1.3I sockproto structure adjustment.

4.42 March 30, 1999
Fixed a typo in the HP-UX dfile.c that caused +fF
and +fN output controls to swap effect.

Enabled for OpenBSD 2.5 per notice from Kenneth
Stailey <kstailey@kstailey.tzo.com>

Made
more VM accommodations for FreeBSD 4.0.

Improved file system search reporting to include

path name components when they're available, instead
of mindlessly reporting the file system name in
the NAME column. Guy Dallaire <gdallair@geocities.com>
brought the need for this change to my attention.

Updated Solaris 2.6 VxFS for Veritas Oracle Database
Edition 2.0, VxFS version 3.3, and VxVm version
2.5.4, based on a report from Chris Kordish
<chris.kordish@East.Sun.COM>. Chris kindly provided
a test system.

Improved HP-UX ipc_s patch detection in Configure,
response in .../dialects/hpux/hpux11/ipc_s.h, and
documentation in 00FAQ, Kevin Vajk <kvajk@cup.hp.com>
helped test.

Added to Customize the option to suppress HASKERNIDCK
selection for specified dialects. Suppressed it
for /proc-based Linux lsof, and removed its test
and code from there. Tin Le <tin@netimages.com>
alerted me to the need for this update.

Ported to official
Digital UNIX 5.0 release.

Changed DU lsof to use the knlist(3) function when
no kernel file has been specified with -k. This
change was suggested by Erich Wimmer
<Erich.Wimmer@digital.com>.

Updated Configure for latest NetBSD (1.3I?) with
UVM support the default.

4.43 May 11, 1999
Corrected a typo in the Solaris gcc discussion in
00FAQ. Made changes to the Solaris 2.5[.1] private
tcp_s structure. Both changes were done in response
to reports from Igor Schein <igor@txc.com>, who
tested the Solaris 2.5 change.

Made more IPv6 adjustments to lsof for Tru64 UNIX
(Digital UNIX) 5.0, based on information obtained
from Compaq by Berkley Shands <berkley@cs.wustl.edu>.

Corrected HP-UX error message about HP-UX 11 q4 usage.
Amir Katz <amir@ndsoft.com> reported the correction.

Fixed a GlibC 2.1 conflict in /proc-based Linux lsof.

Fixed a man page typo reported by Vlad Harchev
<hvv@hippo.ru>.

Changed some Solaris 2.7 references to Solaris 7
in
Configure and 00XPORTING.

Added a Solaris example to the echo statements that
are the install rule in the SunOS/Solaris Makefile.

Added a field to the file structure output --
FILE-FLAG (file structure open flags, f_flag[s],
and process file flags, typically u_pofile)) --
enabled with +f[gG]. Its field output character
is 'G'.

Figured out another piece of the HP-UX 11 patched
ipc_s structure puzzle with the help of Keith Kalet
<KEITH_KALET@HP-USA-om41.om.hp.com>.

Fixed a PTX real vnode to real inode interpretation
bug.

Added link count to lsof output. Eric Dumazet
<dumazet@risgw.ris.fr> requested and helped test
it. The new +L option enables and filters it.
Its field output character is `k'.

Updated Configure script to recognize NetBSD 1.4.

Updated AFSConfig to handle default answers to
questions.

Incorporated patch from Jonathan Sergent <sergent@io.com>
that enables /proc-based Linux lsof to run on both
32 and 64 bit kernels.

Updated
Configure script with a patch from David
O'Brien <obrien@NUXI.com> that recognizes FreeBSD 3.2.

4.44 June 24, 1999
Corrected use of nlink member of hsnode for SunOS
4.1.x High Sierra File System files. John Dzubera
<zube@tlaloc.stat.colostate.edu> reported the
problem and helped test the fix. Also fixed a
SunOS segmentation fault bug. These fixes were

offered as a patch to 4.43.

Improved handling of /proc-based Linux UNIX PCB
address.

Fixed a NEXTSTEP and OPENSTEP bug that made repeat
option (-r) processing malfunction. This fix was
offered as a patch to 4.43.

Fixed Configure so it doesn't use -O in the Cflags
for the bundled HP-UX C compiler. Jim Ankenbrandt
<jankenbrandt@penton.com> reported the problem.

Corrected output ordering of parent PID and process
group ID when both -R and -g are specified.

Enhanced the pdev.c and pdvn.c library modules for
wider use. These dialect versions use the new
library modules: DEC OSF/1,
Digital UNIX, and Tru64
UNIX; Pyramid DC/OSx and Reliant UNIX; SCO OSR and
UnixWare; and Sequent PTX.

Added basic clone device support to /dev/kmem-based
HP-UX lsof for HP-UX 10.30 and higher.

Added raw socket support to /proc-based Linux lsof.

Changed NODE-ADDR column title to NODE-ID in
anticipation of using more general identification
information in the column.

Ported to UnixWare 7.1, using a test system kindly
provided by Matt Thurmaier <matt@compclass.com>
and Don Draper <dond@sco.com>.

Updated for NetBSD 1.4C VM changes, and a new
current and root working directory structure.

Made minor adjustment for latest Tru64 UNIX 5.0
Beta release.

4.45 July 30, 1999
Fixed quoting problem in DEC OSF/1, Digital Unix,
and Tru64 UNIX Makefile's install rule. The problem
was reported by Berkley Shands <berkley@cs.wustl.edu>.
Fixed bug in Tru64 UNIX 4 lsof that caused FDs to
be skipped. These fixes were offered in a patch

to 4.44.

Fixed a repeat-mode
/proc-based Linux lsof bug,
reported by Sami Farin <sfarin@ratol.fi>. This
was offered as a patch to 4.44.

Picked lint, some reported by Sami Farin.

Corrected a 00DCACHE documentation error in a sample
shell script. The problem was reported by Chad R.
Larson <chad@larsons.org>. Changed commented-out
entries in machine.h files so they require more
thought and work when the comments are removed,
based on a remark by Chad.

Compensated for the practice of Solaris 7 and above
to record the dev= value in /etc/mnttab in 32 bit
mode, even on 64 bit systems. This was offered as
a patch to 4.44.

Added a C library test for /proc-based Linux lsof,
so that the #include files can be adjusted for a
non-GlibC environment. The need for this was
reported by Andrew Hill <andrewh@tirin.openworld.co.uk>.
This was offered as a patch to 4.44.

Added support for Auspex LFS 1.8.1 and 1.9.2 to
SunOS 4.1.4 lsof. The support was requested by
Quentin Fennessy
<quentin@dvorak.amd.com>, who
provided information and did testing.

Enabled IPv6 support code for NetBSD and OpenBSD,
conditional on Configure script tests. Wolfgang
Rupprecht <wolfgang@wsrcc.com> supplied the NetBSD
code and tested it. The OpenBSD code I constructed
has been compiled but not tested.

Updated the identd Perl 5 script, based on a report
from Wendy Lin <af5@taiyang.cc.purdue.edu> that
the space in its response line in front of the user
name violates RFC 1413.

Added IPv6 support to /proc-based Linux lsof.
Jonathan Sergent <sergent@ETLA.NET> and Andrew
Thomas Sydelko <sydelko@ecn.purdue.edu> kindly
provided a test system.

Updated man page description of AIX multiplexed files to indicate that they might be /dev/ptc or /dev/pts, depending on the AIX version. The correction was suggested by Onno van der Linden <onno@simplex.nl>.

Sylvain Robitaille <syl@alcor.concordia.ca> reports lsof passes his Y2K tests.

4.46 October 23, 1999

Corrected /proc-based Linux lsof to detect that an IPv6 address is a mapped IPv4 address. The problem was reported and analyzed by Arkadiusz Miskiewicz <misiek@misiek.eu.org>, who also tested the fix.

Added a libc5 library /dev/kmem-based Linux lsof circumvention, supplied by Jason Lingohr <lingman@lucid.net.au>.

Corrected a bug in -t (terse) AIX output, reported by Wendy Lin <af5@taiyang.cc.purdue.edu>. I introduced the bug at revision 4.43 when adding FILE_FLAG reporting. This was offered as a patch to 4.45.

Added a work-around for a problem in the OpenBSD 2.3 <sys/pipe.h> header file. Volker Borchert <bt@teknon.de> provided and tested it.

Improved description of cross-building lsof for a 64 bit Solaris 7 system on a 32 bit system with suggestions from Phillip Edwards <Philip.Edwards@sn.wpafb.af.mil>.

Fixed a gawk POSIX-mode pattern error in the Linux /dev/kmem-based Mksrc script, based on a tip from Ambrose C. Li <acli@mingpaoxpress.com>.

Fixed a bug in the Tru64 UNIX IPv6 handling, courtesy of a report from Casper Dik <casper@holland.sun.com>.

Enabled support for OpenBSD 2.6.

Enabled support for BSDI BSD/OS 4.1, based on a report from Jeffrey C Honig <jch@bsdi.com> that

only a Configure script change is necessary.

Enabled Configure script to use gcc for building
lsof for a 64 bit Solaris 7 and 8 kernels, if the
gcc version is 2.95 or above.

Improved -i option handling for systems with IPv6
support so that it will search for a host name in
both IPv4 and IPv6 families, when that is possible.
As a companion modification, changed -V processing
to report a single error when a multiple host name
match is requested. Casper Dik <casper@holland.Sun.COM>
helped test.

Fixed a DEC OSF/1, Digital UNIX, Tru64 UNIX repeat
mode bug, reported by Mayer Ilovitz <mayer@cooper.edu>.
Mayer helped test the fix. The fix was offered as a
patch to 4.45.

Changed Solaris socket
file recognition scheme, so it
is (nearly) the same through Solaris 8, where the
previous clone device scheme no longer works.

With significant assistance from Casper Dik, added
support for Solaris 8 Beta and Beta refresh. The
IPv6 support in Solaris 8 is still in some flux,
so there are temporary compensations for the
differences between Beta IPv6 support and Beta
refresh IPv6 support. Casper and I hope those
differences disappear by FCS.

Improved the delivery of information on Solaris
2.5.1, 2.6, 7, and 8 door files.

Fixed a repeat mode bug that surfaces when /etc/passwd
changes between cycles. The bug report and diagnostic
help were supplied by Igor Schein <igor@txc.com>.
The fix was offered as a patch to 4.45.

Added support for INRIA IPv6 to NetBSD. Jean-Luc
Richier <Jean-Luc.Richier@imag.fr> provided patches
and a test system on which to verify them.

Added support for AIX 4.3.3. Jeff W. Stewart
<jws@anaconda.cc.purdue.edu> provided
a test system.

Made adjustments for FreeBSD 4.0-current.

Improved reporting of information for AIX sockets that lack protocol control blocks.

4.47 November 29, 1999

Based on a query from Jean-Pierre Radley <jpr@jpr.com>, changed the lsof top-level Makefile to propagate CFGF to the library Makefile. (DEBUG was already being propagated.) Added osrgcc and scogcc Configure abbreviations (to use gcc) for Jean-Pierre.

In response to a query from Igor Schein <igor@txc.com>, improved the Configure script test for Solaris 7 and 8 that decides if the compiler can produce 64 bit executables.

Made an ugly hack, based on making a private rnode structure definition from q4 output, to compensate for HP-UX 10.20 and lower recent NFS3 patches. HP didn't supply an updated <nfs/rnode.h> with the patches. The problem was reported by Will Partain <partain@mekb2.sps.mot.com>. Elias Halldor Agustsson <elias@hi.is> helped identify the patches as PHNE_18173,
PHNE_19426, PHNE_19937, and PHNE_20091, and provided a test system.

Switched BSDI test system from 2.1 and 3.1 to 4.0.1, courtesy of Terry Kennedy <terry@tmk.com>.

Added some more dev_t hacks for Alpha FreeBSD 4.0.

Added support for IPv6 on BSD 4.x. The support hasn't yet been tested, just compiled.

Added support for the mnt file system (mntfs or /etc/mnttab) on Solaris 8. Tested on Solaris 8 BETA-Refresh.

Made selection of optional fields (e.g., PPID with -FR) in a field output specification select the optional field, too, so that the option selector for the field (e.g., -R) isn't also required. This change was made in response to an inquiry from John DuBois <spcecdt@armory.com>. This may require some revision to scripts that parse all field output; two scripts in the lsof distribution's scripts/

subdirectory had to be updated.

Corrected handling of Linux IPv4 addresses mapped in IPv6 addresses.

Tested under OpenBSD 2.6.

4.48 January 14, 2000

Modified -i argument processing of colon-separated IPv6 addresses to recognize an IPv4 address mapped in an IPv6 address and handle it as an IPv4 address. This was offered as a patch to 4.47.

Added a defined symbol (NOWARNBLKDEV) to control (inhibit) the issuance of a warning when no block devices are found. This was done anticipating its need in FreeBSD 4.x, but that dialect version no longer has any block devices, so HASBLKDEV was disabled for it instead. NOWARNBLKDEV was left in place for possible use in the future.

Enabled KAME IPv6 Configure support for FreeBSD when <netinet6/in6.h> is found.

Disabled use of gcc to compile lsof for 64 bit HP-UX 11.

Updated Configure to recognized FreeBSD 3.4.

Based on suggestions from Bernt Christandl <beb@MPA-Garching.MPG.DE> improved AFS configuration for AIX and Solaris, and updated AIX AFS 3.5 support. Johannes Tax <tax@bluedog.oit.unc.edu>, Hung T. Pham <hung_pham@unc.edu>, and Curt Freeland <curt@grumpy.cse.nd.edu> provided test systems.

Updated lsof's private rnode definition for AIX 4.3.3, since IBM still doesn't ship the <oncplus/nfs/rnode.h> header file and the rnode structure definition in <nfs/rnode.h> doesn't match what the kernel uses. This was offered as a patch to 4.47.

Weakened the test in the Linux /proc-based lsof of the field count of data lines in /proc/net/{tcp,udp}. It appears that recent 2.3.x Linux kernels have

added untitled fields to these files. The bug
report came from Gabor Liptak <gaborliptak@usa.net>.

Adjusted for a FreeBSD 4.0 change in the definition
of [_]KERNEL. David O'Brien <obrien@NUXI.com> reported
the problem and provided a test system.

Removed the HASPPID bracket from Fppid (the -R
option state variable) so that the field select
table will compile even when HASPPID is not defined.
This problem was introduced at revision 4.47 with
code that causes some field output characters to
set
option states. The problem was reported by
David Bacon <bacon@birch.eecs.lehigh.edu>.

4.49 April 3, 2000
Made clearer in man page that "Lxx" FDs are AIX
loader table references. Also updated the 00FAQ
discussion of the Stale Segment ID bug to include
AIX 4.3.x.

Modified support for NetBSD 1.4Q to include the
<sys/buf.h> header file to cope with an MFS change.

Added support for OpenBSD UVM virtual memory.

Added support for AIX systems with > 2GB of memory.
Chris Sylvain <csylvain@itg.ummc.umaryland.edu>
reported the problem and provided the solution.
Chris also supplied some minor code cleanup. This
was offered as a patch to 4.48.

Based on new information from Igor Schein <igor@txc.com>
made additional compensation in Configure script
for 64 bit Solaris 7 and 8 gcc.

Added some 00FAQ info on the effect ordering of
the +fg and -FG options has on output format.

Improved NetBSD IPv6 configuration, based on a
suggestion from Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>.
Added code to
convert IPv4-mapped-in-IPv6 addresses to IPv4
addresses.

Updated the information in 00FAQ and the HP-UX 11

binary directory README files on the HP-UX 11 ipis_s
patch with new information supplied by Eric McWhorter
<emcwhorter@xsis.xerox.com>.

Added documentation on changes to HASFSTYPE and
HASNCACHE, and the new HASPRIVPRIPP.

Adjusted Configure for FreeBSD 5.0. Made additional,
necessary changes to Configure and the BSDI sources
to eliminate load errors.

Added KAME IPv6 support to FreeBSD at the request
of Ollivier Robert <roberto@eurocontrol.fr>, who
provided a test system.

Corrected the script that generates the CHECKSUMS
files for binaries to correctly name the detached
PGP certificate. The documentation bug was reported
by Michael Hennecke <hennecke@rz.uni-karlsruhe.de>.

4.50 June 29, 2000
Added a NetBSD alpha test host, courtesy of Ray
Phillips <r.phillips@mailbox.uq.edu.au>.
An lsof
4.49 binary, built on Ray's 1.4.1 system was made
available prior to the 3.50 release.

Upgraded the system map file tests in /dev/kmem-based
Linux lsof, making the use of DEBIAN_LINUX_LSOF
unnecessary. Tested the changes on a system made
available by Vincent Kujala <kujala@geog.ubc.ca>
and Jim Mintha <jim@ic.uva.nl>.

Forced AIX to use the large-file-enabled versions
of lstat (lstat64) and stat (stat64) if <sys/stat.h>
contains stat64. This should allow lsof to stat()
AIX files > 2GB even when the builder has not
defined the "large file enabled programming
environment." Configure tests <sys/stat.h> and
puts -DHASSTAT64 in the Makefile's CFLAGS to make
this happen. Fernando A.B. Whitaker
<whitaker@cenapad.unicamp.br> reported the problem.
This was offered as a patch to 4.48.

Enabled Configure script to handle OpenBSD 2.7.
Angelos D. Keromytis <angelos@dsl.cis.upenn.edu>
reported the availability of OpenBSD 2.7 and supplied
the Configure

script patch.

Improved handling of DOOR and fattach()'d files in
Solaris.

Changed message about missing kernel symbol file
from "not yet determined" to "none found".

Updated FreeBSD, NetBSD, NEXTSTEP, OpenBSD, and
OPENSTEP support to report "no PCB" and the values
of the SO_CANTSENDMORE and SO_CANTRCVMORE state
flags when a socket structure has no inpcb pointer.
This modification was made to AIX lsof at revision
4.46. Added an entry to 00FAQ about sockets that
have no inpcb pointer.

Upgraded support for FreeBSD 5.0-CURRENT. Ben
Smithurst <ben@scientia.demon.co.uk> supplied
patches and did testing. David O'Brien <obrien@NUXI.com>
supplied a test system. The update included dropping
the Fctty part of file descriptor file system
support, conditional on a Configure script test.
I propagated those changes to BSDI, NetBSD, and
OpenBSD in anticipation of their having the
modification in the future. David also arranged
with Michael Haro
<mharo@area51.fremont.ca.us> for
a FreeBSD 3.4 test system.

In response to an lsof 3.72 bug report from Jim Mewes
<jim@corp.phone.com>, added more kernel address
filtering to the lsof function, kread(), that reads
Solaris kernel data.

In response to a report from Marc Duponcheel
<marc@offline.be>, added tests to the /proc-based
Linux lsof to ignore file systems of types "autofs"
and "pipfs".

Based on a report and information supplied by Casper
Dik <casper@holland.Sun.COM>, updated the ncache_load()
function in lib/rnch.c with new code that deals
with a post Solaris 8 change in kernel name cache
(DNLC) handling. Casper tested the update, which
should be invisible to Solaris versions without
the new DNLC code.

Added support for Solaris VxFS QIO files, based on

a report from Kieran Broadfoot <kieran.broadfoot@gs.com>.
Kieran help test the support.

Added support for PTX 4.4.6 and 4.5[.1] with help
from the usual cast of good people at Sequent.

Added
support for 64 bit file sizes and offsets on
BSDI, FreeBSD, NetBSD, and OpenBSD, based on a
report from Dan Nelson <dnelson@emsphone.com>.
Dan supplied a patch and did FreeBSD testing.

Added Configure script recognition of NetBSD 1.5,
based on a report from Andrew Brown <atatat@atatdot.net>.
Thomas Klausner <wiz@danbala.ifoer.tuwien.ac.at> updated
the NetBSD port package to use a pre-release of this
addition.

At the last minute saw a notice via deja.com's
UseNet search service that FreeBSD 3.5 had been
released and lsof didn't grok it. Added recognition
of 3.5 to lsof's Configure script, but didn't have
the opportunity to test lsof on 3.5.

4.51 August 21, 2000
Added Configure script support for the upcoming
Solaris 9 release based on suggestions from Casper
Dik <Casper.Dik@holland.sun.com>.

Changed sample Perl scripts to assume that
/usr/local/bin/perl is Perl 5 and Perl 4 may be
found in /usr/local/bin/perl4.

Updated Configure
to recognize FreeBSD 4.1 and made
a FreeBSD pre-release distribution available.

Bela Lubkin <belal@sco.COM> tested lsof on the
upcoming SCO OSR 5.0.6 release and reports that
lsof appears to work properly.

Updated the AIX compiler test in Configure to
recognize its version 5.

Updated AIX 4.3.3 support with automatic recognition
of the proper rnode structure, based on machine
bit width. Also added code to detect when processing
the -X option that lsof has been compiled with the

"other" AIX 4.3.3 user structure and to apply
compensations. When a compensation method works,
it's applied during subsequent -X processing; when
none works, further -X processing is disabled.

Added Tru64 UNIX 5.1 support. Updated Tru64 UNIX
library text file support to recognize new kernel
support for AdvFS library files. Berkley Shands
<berkley@cs.wustl.edu> and Klaus Saggerer USG
[saggerer@zk3.dec.com> helped put me in contact
with Chang Song <song@zk3.dec.com>,
the developer
of 5.1's new kernel name cache and he helped me
develop new code in lsof to access it.

Corrected reporting of PTX fattach()'d address.

Changed Configure and dlsof.h for NetBSD and OpenBSD
to use /usr/include/uvm header files when available.
Andrew Brown <atatat@atatdot.net>, Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>, and Wolfgang
Rupprecht <wolfgang@wsrcc.com> pointed out the need
to do this for NetBSD. Andrew provided access to
a NetBSD 1.5 system for verifying the changes.

Installed snprintf() support, including a private
version in the lsof library for those UNIX dialects
without the function. Changed all sources to use
it instead of sprintf() and strcpy().

Fixed a memory leak in the readvfs() functions of
BSDI, DEC/OSF1, Digital UNIX, FreeBSD, NetBSD,
OpenBSD, and Tru64 UNIX.

Tested on Linux 2.4.

Modified the Pyramid MkKernOpts script to compensate
for `uname -s` configuration alternatives. Robert
Dahlem <Robert.Dahlem@ffm2.siemens.de>
supplied
the modification.

Obtained access to an FCS Solaris 8 64 bit system
and built lsof on it, using Sun Workshop C 5.0 and
gcc 2.96 20000814 (experimental). Both compilers
produce a working lsof.

4.52 November 8, 2000
Completed work on an HP-UX 11.11 port that uses a
pstat(2) interface provided by HP. To distinguish
it from its predecessors for HP-UX, this lsof
version is called PSTAT-based and the predecessor
versions are now called /dev/kmem-based. I am
indebted to the far-sightedness and support of
these good people at HP for making PSTAT-based lsof
possible: Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada. The PSTAT-based
sources are in lsof_4.52/dialects/hpux/pstat, the
/dev/kmem-based ones in lsof_4.52/dialects/hpux/kmem.

Ported to IBM Monterey for Merced|Itanium, aka AIX
5L. It configures via the Configure script's "aix"
abbreviation and has been tested on AIX 5L Beta 3.
Jay Beck,
Steve Dibbell, Loc Le, Nasser Momtaheni,
and Malcom Zung of IBM provided generous support.
Since AIX 5L is still in Beta testing, this port
can't be considered complete.

Added Configure support for OpenBSD 2.8. David
Mazieres <dm@cs.nyu.edu> provided a test system.

Based on a report from Marc Christensen
<marc@mecworks.com> added sockfs to the mount scan
exemption list for /proc-based Linux lsof.

Added large file, CDFS, and DOSFS for UnixWare 7.x.
Added UnixWare device memory mapping support. All
UnixWare changes were supplied by Eric Dumazet
<edumazet@cosmosbay.com> Eric also supplied some
miscellaneous bug fixes.

Deferred name cache loading until printname() needs
to use the name cache.

Terminated Pyramid, SunOS 4.1.x, and Ultrix support,
because test systems are no longer available.
Final Pyramid and Ultrix source code distributions
for lsof revision 4.51 may be found on lsof.itap.purdue.edu
in pub/tools/unix/lsof/OLD/src. The no
longer
supported SunOS 4.1.x source code is still distributed
with the Solaris source code.

Added code to set Solaris node address to real vnode

address, when applicable.

John Speno <speno@lopan.isc-net.upenn.edu> provided information that enabled me to update the Tru64 AdvFS (MSFS) node definition for AdvFS version 5.

Added Tru64 5.x CFS support with help from Kris Chandrasekhar <Kris.Chandrasekhar@compaq.com>, Diane Lebel <lebel@zk3.dec.com>, and John Speno. The support only provides information about cached file attributes.

Installed a Configure patch for HP-UX 11 supplied by Kenneth Stailey <kstailey@disclosure.com> that adds another command to q4 input.

Tested on FreeBSD 4.2.

Will Day <willday@rom.oit.gatech.edu> and Frank Winkler <frank.winkler@germany.sun.com> graciously supplied Solaris 8 binaries.

Added Solaris 9 text file support, supplied by Casper Dik <Casper.Dik@holland.sun.com>.

4.53 December 6, 2000

Added the AIX 5L j2_lock.h to the distribution with a Configure script step to use it when it's missing from /usr/include/j2.

Removed SunOS 4.1.x support.

Removed Linux 2.0.x /dev/kmem support.

Fixed VBLK and VCHR special device file reporting to handle /dev information more accurately.

Added a Apple Darwin / Mac OS X 1.2 port, provided by Allan Nathanson <ajn@apple.com>. Allan also arranged for a test system so I can maintain this port. An additional test system was provided by Dale Talcott.

Dropped claims of support for all UnixWare versions except 7.1.0, since that is the only version on which I can test lsof. Even though lsof 4.53 is deprecated for UnixWare 2.1.3, installed a patch

for it with testing done by A. Channing Clark
<clark.channing@heb.com>.

Dropped claims of support for all SCO OpenServer
versions except 5.0.5, since that is the only
version on which I can test lsof.

4.54 January 19, 2001
Added compensation for a change that made the
FreeBSD
mount structure invisible. I can only test
back to 3.2 and the compensation works there, so
it's been #ifdef'd for 3.2 and above. David O'Brien
<obrien@FreeBSD.org> provided the necessary clue.

Based on a report from Valdis Kletnieks
<Valdis.Kletnieks@vt.edu>, changed all IPv6 support
to report a TYPE of IPv6 for sockets with IPv4
addresses mapped in IPv6 addresses. The previous
lsof behavior was to report their TYPE as IPv4.

Restored the Linux GlibC test to Configure, removed
at revision 4.53, based on a report from John Dzubera
<zube@cs.colostate.edu>, that RedHat Linux 6.0 still
needs the test.

Made setting of link count for Solaris more selective.

Limited Readlink() recursion to MAXSYMLINKS. The bug
was reported by Jan Dvorak <johnydog@go.cz>.

Dropped the *claim* that lsof runs on Solaris 2.5.1.
It may well do so, but I no longer have access to a
test system.

Fixed an #endif comment typo, reported by Igor Schein.

Fixed a typo
in a cast for a Tru64 UNIX 5.1 function
and updated Configure for Tru64 UNIX 5.0 and 5.1 with
information from Jesse Perry <jesse.perry@compaq.com>.

Corrected non-fatal typos in the AdvFS support in
dnode.c for Tru64 UNIX.

Added msdos file system support for NetBSD and OpenBSD.
Andrew Brown <atatat@atatdot.net> requested and helped
test it.

4.55 February 15, 2001
Based on a report from Bernd Eckenfels <ecki@lina.inka.de>
added support in lsof for files in /proc/<PID>/maps
that have been deleted.

Changed PGRP output title to PGID, conforming to
the most common current abbreviation for Process
Group ID (PGID). While some systems continue to
use *pgrp for internal kernel variable names, most
systems that support the display of PGID via ps(1)
now title it PGID. The lsof -g and -Fg options
operations are unchanged in function; only titles
and descriptions have changed. Also changed internal
variable names from *PGRP and *pgrp to *PGID and
*pgid
where possible.

Dropped the *claim* that lsof runs on HP-UX 9.x.
It may well do so, but I no longer have access to
a test system.

In response to a suggestion from Jeff Howie
<jeff.howie@federated.ca> added support for command
name selection by regular expression. A new form
of the -c option value is use to identify and
specify a regular expression.

Restore the *claim* that lsof works on UnixWare
7.0, since I re-acquired a test system.

4.56 May 3, 2001
Corrected some problems Amir Katz <Amir_Katz@bmc.com>
found with Insure++, one in lib/dvch.c, the rest
in Solaris sources. Amir's report also helped me
find an error in an snpf() call that caused (the
unsupported) Solaris 2.5.1 lsof to crash. Wally
Winzer, Jr. <wally.winzer@ChampUSA.COM> helped test.

Added support for UnixWare 7.1.1 and above in-kernel
UNIX sockets. John Hughes <john@Calva.COM> kindly
provided code and access to a test system. John
also provided a test system and advice
for adding
UnixWare 7.1.1 NonStop Cluster and CFS support.
More help with that effort came from Kurt Gollhardt
(SCO), Barbara Howe (SCO), Bela Lubkin (SCO), and
Dewan Rashid <Dewan.Rashid@ir.com>.

Archived a set of compilation hints (patches) from
Bill Melvin <Bill.Melvin@esc.edu> that make it
possible to compile the old, unsupported lsof 3.08
sources on UnixWare 1.x without NFS or CDFS support.

Installed support supplied by Allan Nathanson
<ajn@apple.com> for the Darwin "Gold Master" release,
Mac OS X 10.0 (aka Darwin 1.3 in its public source
version). Added Allan's CVS repository suggestions
to the script that gets additional header files
from an open source repository.

Tested an HP-UX 11.11 kernel patch from Sailu
Yallapragada that enables reporting of TCP/IP
information for telnetd processes that use the
telnet multiplexor. I don't yet know the kernel
patch ID.

Made the Solaris inclusion of <inet/mi.h> conditional
on the Solaris
version. (It's apparently not needed
at 2.6 and above.) Bill Watson <bill.watson@uk.sun.com>
brought this to my attention.

Added alternate Linux 2.4.x lock extent test, supplied
by Jim Mintha <jim@ic.uva.nl>.

Rearranged the lines and pre-processor tests in
regex.h, lib/regex.c, and lib/snpf.c so that unifdef
can be used to eliminate copyright and GPL statements
when the files aren't being used for a particular
dialect. (USE_LIB_* definitions in a dialect's
machine.h header file determine if one or more of
those three files are to be used.)

Added preliminary support for Solaris 8 with VxFS
3.4. This support will be refined as I get
information from Veritas about how they will
distribute the kernel header files lsof needs.
Those header files were omitted from the standard
VxFS 3.4 distribution. Technical assistance and
testing were provided by Calle Dybedahl <cdy@algonet.se>,
Gary Millen <gary.millen@veritas.com>, Rainer Orth
<ro@TechFak.Uni-Bielefeld.DE>,
Peter C. Vernam
<pvernam@draper.com>, and Donna Yobs
<Donna.Yobs@veritas.com>

Tested on FreeBSD 4.3-STABLE.

Dropped the *claim* that lsof works on UNIX dialects
where I no longer have test systems: BSDI 2.1,
3.[01] and 4.0; DEC OSF/1, Digital UNIX and True
64 UNIX 2.0 and 3.2; FreeBSD 2.1.[67], 2.2[.x],
3.[012345] and 4.[01]; HP-UX 10.20; NetBSD 1.[234];
SCO OpenServer 5.0.5; and SCO UnixWare 7.0

Tested on Solaris 9 BETA, s81_36.

4.57 July 19, 2001
Help (-h) and version (-v) output now have URLs
for the newly created and timeliest lsof FAQ
(00FAQ in the lsof distribution) at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

and the man page for the current lsof distribution
at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

Based on a report from Steve Laubscher
<slaubs@woodward.com>, modified dlsof.h for PTX
4.6[.1] to avoid a temporary dnlc_t definition
needed at PTX 4.5.1.

Corrected test for old Linux
kernels in Configure.
Henri Karrenbeld <ishtar@cal044202.student.utwente.nl>
brought the error to my attention. Limited Linux
claims to 2.1.72 and above in the documentation.

Improved HP-UX 11 Configure stanza and stream socket
handling.

Constructed a work-around for the HP-UX 11 optional
OnlineJFS package. The work-around sadly requires
lsof to have a private version of the vx_inode
structure, since the OnlineJFS package doesn't
update <sys/fs/vx_inode.h>. Troyan Krastev
<Troyan.Krastev@ricoh-usa.com> brought the bug to
my attention and Michael Bracewell
<michael@ra.TSS.PeachNet.EDU> provided a test system
where I developed the work-around.

Added locale support to lsof's isprint() test,
based on a suggestion from Dan Mercer <damercer@mmm.com>.
Lsof will use setlocale(), when that function and
its supporting <locale.h> header file are available.

Added OpenBSD 2.9 support.

Based on a report from Aaron Rhodes <arhodes@psionic.com>
and
with testing help from Aaron, made the lsof
4.56 revision compile and work on OpenBSD 2.6.
While that OpenBSD version is no longer supported,
Aaron's report exposed a Configure script bug
affecting OpenBSD versions lsof does support.

Updated for FreeBSD 5.0-CURRENT. Szilveszter Adam
<sziszi@petra.hos.u-szeged.hu> help test. The lsof
FreeBSD ports packager, David O'Brien <obrien@FreeBSD.org>,
assisted.

Tested on AIX 5.1. Loc Le and Nasser Momtaheni of
IBM provided test systems.

4.58 September 13, 2001
Added options to safestrprt() and safestrprtn() to
surround the string with "" and to suppress the
printing of an ending '\n'. Use of these functions
in device cache file error message reporting answers
a suggestion for better error reporting from John
Jackson <jrj@purdue.edu>.

Fixed a Solaris 2.6 and above problem related to
searching for "large" (O_LARGEFILE) files by name;
lsof was using the wrong version of [l]stat(2).
The bug was reported
by Daniel Trinkle
<trinkle@cs.purdue.edu>.

Added AIX 4.1.4 and above XTI socket support.

Added OSR Xenix Shared Data and Semaphore file type
support with modifications supplied by Bela Lubkin.

Updated OPENSTEP support with modifications from Carl
E. Lindberg <lindberg@clindberg.org>. The changes
enable the correct reporting of executable and
library open files ("txt" type).

Limited claims of OpenServer support to the versions
where I currently test, 5.0.4 and 5.0.6. (Lsof
probably works on 5.0.5.)

Enabled processing of -C option for PSTAT-based HP-UX
lsof.

Enabled and tested on FreeBSD 4.4.

Corrected a file system test example in 00QUICKSTART,
based on a report from Jun Biao WANG <wangjunb@cn.ibm.com>.

Made available for re-distribution a user-contributed
port of lsof 4.51 to Reliant UNIX 5.45. Thomas
Mauterer <Thomas.Mauterer@philosys.de> contributed
the port.

4.59 October 20, 2001
With the closing of the Sequent Synergy Links
Lab
by IBM, terminated lsof support for PTX. The last
tested PTX lsof revision, 4.58, is available on
lsof.itap.purdue.edu in .../lsof/OLD/src.

Adjusted for FreeBSD 5.0-CURRENT NFS header file
changes, based on a report from Jos Backus
<josb@cncdsl.com>.

Corrected a bug in the way Linux lsof identifies
the owner of a process. Lionel Cons <lionel.cons@cern.ch>
reported the problem and tested the fix. Added
code to avoid stat(2) calls on regular Linux files
whenever possible. Lionel reported the need to do
this (AFS files) and tested the new code.

Added new output field for raw device number in
hex. The field is identified with 'r'. This field
is NOT selected when -F or -F0 is specified so that
its appearance won't disturb existing scripts that
process field output.

Added support for OpenUNIX 8. A test system was
provided by Larry Rosenman <ler@lerctr.org>.
Matthew Thurmaier <matt@compclass.com> and many
people from Caldera provided
technical assistance.

Added an additional UVM test to the NetBSD Configure

stanza. Andrew Brown <atatat@atatdot.net> supplied
the test; it recognizes NetBSD 1.5Y UVM changes to
the vnode structure recently committed by Chuck
Silvers.

Applied Configure and get-xnu-headers.sh script
changes suppled by Allan Nathanson <ajn@apple.com>
for Darwin 1.4.

Added for Bela Lubkin <belal@mammoth.ca.caldera.com>
OSR-specific environment variables to supply values
to the Configure script. The variables are described
in 00XCONFIG.

Added an IP version selector to the -i option
parameters.

4.60 November 9, 2001
Added special handling to and corrected bugs in
the matching of IPv4 in IPv6 addresses to -i6:<...>
selectors.

Made 00FAQ corrections and updates, based on
discussions with Igor Schein <igor@txc.com>.

Modified Configure script to detect a 64 bit capable
gcc compiler and permit it to be used to build 64
bit (PA-RISC 2) lsof for HP-UX 11.00. Tested
with
HP's gcc package, which Rich Rauenzahn of HP kindly
installed on a test system at HP. Stefan Marquardt
<stefan.marquardt@hagebau.de> helped test.

Made lsof's method of killing its child process
more robust, based on a suggestion from Bela Lubkin
<belal@caldera.com>.

Modified all dialect Makefile segments to accept
select -v #define's from the environment -- a
builder's comment, host, logname, system information
and user name. This was done for Bela Lubkin, so
he can "tune" the -v output when he packages lsof
in the upcoming Caldera OSR 5.0.7 release.

Changed Perl scripts in scripts/ to put the lsof
path consistently in $LSOF. Also added a fix from
Bela Lubkin to scripts/big_brother.perl5 that allows
it to tolerate SCO OSR "ago" clauses in open UDP

file information. Strengthened emphasis in
scripts/00README that the scripts are examples that
shouldn't be expected to run on all UNIX dialects
without modification.

At Bela Lubkin's
suggestion changed the device
cache file format examples in 00DCACHE and 00FAQ
to avoid "%U%". That's an SCCS escape sequence.

Added support for OpenBSD 3.0.

Added +DAportable to CFLAGS for 32 bit HP-UX 11.
Amir Katz <Amir_Katz@bmc.com> suggested the addition.

4.61 January 22, 2002
Updated field output example Perl scripts in the
scripts/ subdirectory to discover the lsof path,
starting at .. and proceeding through the PATH
environment variable's directories.

Added minor OSR Configure script fixes, provided
by Bela Lubkin <belal@caldera.com>.

In response to a report from Joshua Wright
<Joshua.Wright@jwu.edu> modified NetBSD and OpenBSD
Configure stanzas and sources so that lsof can be
built when there is no system source tree (e.g.,
/usr/src/sys).

In response to a report from Peter Valchev
<pvalchev@openbsd.org> improved the UVM test in
the OpenBSD Configure stanza.

Updated Configure script to recognize FreeBSD 4.5.
Updated for FreeBSD
5.0 procfs and pseudofs changes.

Updated HP-UX stanza to see if the compiler named
in the LSOF_CC environment variable is the bundled
compiler. If it is, "-O" is omitted from the
compiler flags.

Updated Digital UNIX 4.x and Tru64 UNIX error message
related to kernel name list failures. Added an FAQ
section about how a kloadsrv daemon failure can cause
knlist(3) to fail. The condition was reported by
Douglas B. Jones <douglas@gpc.peachnet.edu>

Based on a report from Mark W. Eichin <eichin@thok.org>
made Linux lsof capable of handling and reporting
file sizes greater than 32 bits.

Tested on Solaris 9 BETA-Refresh.

Corrected a bug in the matching of IPv4 addresses,
mapped in IPv6 addresses, to an IPv4 parameter to
an -i option.

Ported to 64 bit Power AIX 5.1 kernel with advice
from David Clissold <cliss@austin.ibm.com> and Marc
Stephenson <marc@austin.ibm.com>, and on a test
system provided by Loc Le <lple@us.ibm.com>.

4.62 March 7, 2002
Updated
00README to reflect the usefulness of gcc
for building AIX lsof. Documented a report from
Brian L. Gentry <BGentry@nationsrent.com> of success
on AIX 4.3.3. I documented my success on 32 bit
Power AIX 5.1 and my lack of success on ia64 AIX
5.1 and 64 bit Power AIX 5.1.

Improved UnixWare >=7.1.1 reporting of UNIX socket
NAME field information for NonStop Cluster systems
with a patch provided by John Hughes <john@Calva.COM>.
Offered John's improvement as a patch to lsof 4.61.

Corrected bugs in handling of open files on block
devices by OSR lsof. The bugs were reported by
Bela Lubkin <filbo@deepthought.armory.com>.

Fixed bug in writing >32 bit device numbers for
block devices to the device cache file.

Added support for reporting block special nodes
not in /dev (or /devices). That required "like
device special" be changed to "like block special"
and "like character special". (00FAQ was updated.)

Based on a report from Peter Valchev
<pvalchev@openbsd.org>
improved the definition of the source for NetBSD
and OpenBSD kernel symbols (the nlist() source
file). NetBSD now defaults to getbootfile(3) if
it is available, /netbsd otherwise. OpenBSD now

defaults to /dev/ksyms if it is available, /bsd
otherwise.

Made possible compilation under BSD/OS (BSDI) 5.0
with changes to Configure, dialects/bsdi/dlsof,
dialects/bsdi/dproc.c and lib/rnmh.c. The changes
were suggested by Steven Hinkle <hinkle@bsdi.com>.
Note that these changes do not substantiate a claim
that lsof works on BSDI 5.0, because I haven't
tested it there.

Updated OpenUNIX private <sys/fs/memfs_mnode.h>,
based on a report from Larry Rosenman <ler@lerctr.org>
that it had been updated by Caldera patch OU800PK3.
Unfortunately the patch only corrects some of the
problems with the header file, so it is still
necessary to distribute a private patched version
of it with the lsof sources.

Applied a man page correction
reported by Frederic
Delanoy <max_ok@yahoo.com>.

Corrected cast bugs related to using the HP-UX
bundled C compiler on HP-UX 11.11.

4.63 April 23, 2002
Added HPUX_BOOTFILE environment variable for use
by the Configure script in determining HP-UX kernel
configuration information -- e.g., the state of
the ipis_s structure in the HP-UX 11 kernel. The
change was suggested by Marc Bejarano <beej@alum.mit.edu>.
Marc also suggested some changes to the HP-UX
section in 00FAQ that discusses Configure's use of
q4 for HP-UX 11.

Fixed a bug in the Solaris lsof file system matching
code. It was not reporting that VCHR files in
/devices were in / when /devices was in /, too.

Corrected bugs in device number, file size, file
offset, and raw device number field output generation.

Added recognition of OpenBSD 3.1 to the Configure
script with a suggestion from Peter Valchev
<pvalchev@sightly.net>. Note that this change does
not constitute a claim that lsof

works on OpenBSD
3.1, because I haven't tested it there.

Built an automated test suite. (See 00TEST and
the tests/ sub-directory of the lsof main directory).
Bela Lubkin requested it. Dale Talcott, John
Hughes, and Larry Rosenman helped me validate it
on their systems.

During the development of the test suite I discovered
the following lsof bugs or missing features, and
corrected or supplied them.

* Corrected the reporting of locks for:
  o Digital UNIX 4.0d and Tru64 Unix 5.[01];
  o HP-UX 10.30 and 11.00;
  o OpenUNIX 8;
  o UnixWare 7.1.1.

* Enabled HP-UX 10.30 and 11.00 to report open NFS
  file link counts.

* Corrected the reporting of UNIX domain socket
  names for Apple Darwin, FreeBSD 4.5 and above,
  NetBSD 1.4.1 and above, and for OpenBSD 3.0 and
  above.

* Enabled HP-UX 11.11 to stat(2) large files.

* Fixed handling of combination 32 and 64 bit
  device numbers in AIX 64 bit architectures.

Updated the AIX 4.3.3 NFS rnode
recognition code,
first installed at revision 4.51. It looks like
some IBM update has restored a single rnode structure
independent of the machine bit width.

Updated the NetBSD and OpenBSD sources so NetBSD
can process DTYPE_PIPE files, as OpenBSD was already
able to do.

Updated Darwin get-xnu-headers.sh script to reflect
information about a recent reorganization of the
Darwin CVS hierarchy, supplied by Allan Nathanson
<ajn@apple.com>.

Added defense against the standard I/O descriptor

attack.

4.64 June 26, 2002
Corrected some FreeBSD pre-processor directives.
David O'Brien <obrien@NUXI.com> pointed them out.

Updated lsof's main() function to: 1) close all
open file descriptors above 2 before starting; and
2) to set a non-interfering umask. Moved GET_MAX_FD
test from misc.c to proto.h, so that main() could
use it. Added multiple-include protection to
proto.h.

Moved FAQ's test suite Q's & A's to a more appropriate
section. Added
a Q&A on HASSECURITY option and
its affect on searching for open files. (That was
already in the man page.)

Updated hpux/kmem/dnode.c for HP-UX < 11 compilation
with information from John Dzubera <Zube@CS.ColoState.EDU>.
While lsof doesn't support HP-UX < 11 any more, I
try to avoid disabling it there when possible, and
a locking fix for HP-UX >= 11 in lsof 4.63
inadvertently disabled compilation of lsof for
HP-UX < 11. Fixed long-standing bug in HP-UX 10.20
lock reporting.

Removed language from the test suite programs that
requires an ANSI-C compiler. This allowed the test
suite to be validated with cc and gcc on the un-
supported HP-UX 10.20.

At the suggestion of Manuel Bouyer <bouyer@antioche.eu.org>
switched NetBSD and OpenBSD lsof from using nlist()
to using kvm_nlist(). Made the same change for
BSDI, Darwin, and FreeBSD.

Validated test suite on OPENSTEP 4.2.

In response to a suggestion from Jeff Stoner
<jstoner@blackboard.com> enhanced
support for the
FD list of the -d option to allow it to be either
an exclusion or inclusion list, using the '^' prefix
to denote exclusions.

Made adjustments for FreeBSD 4.6 and 5.0-CURRENT.

Fixed a FreeBSD /etc/make.conf CFLAGS extraction
bug, reported by Kris Kennaway <kris@obsecurity.org>,
and new a bug in the fix, reported by Eric Cronin
<ecronin@eecs.umich.edu>

Added nullfs support for FreeBSD, NetBSD, and OpenBSD
at the request of Andrew Brown <atatat@atatdot.net>.

Modified all readmnt() functions to ignore mounted-on
directory names that don't begin with '/'.

Tested on NetBSD 1.6A and OpenBSD 3.1.

Upgraded to Solaris 9 FCS with two changes to the
BETA-Refresh support: 1) an adjustment to dnode.c
for a change in the so_so (sonode) structure; and
2) addition of Solaris 9 FCS specific DNLC code.
David Comay <David.Comay@Eng.Sun.COM> sent me the
dnode.c change and Casper Dik <Casper.Dik@sun.com>
helped with the new DNLC support code.

Applied
OpenUNIX changes that permit lsof to compile
and run on the upcoming 8.0.1 release. The changes
were supplied by Robert Lipe <robertl@caldera.com>.
Larry Rosenman <ler@lerctr.org> provided a test
system.

Added Solaris fd file system support.

4.65 October 10, 2002
Adjusted for change in FreeBSD 5.0-CURRENT inode
structure, reported by David O'Brien <obrien@NUXI.com>.
Adjusted for changes in FreeBSD 5.0-CURRENT <sys/vnode.h>.
One change was reported by Anders Nordby
<anders@FreeBSD.org>. Adjusted for FreeBSD 5.0-CURRENT
on sparc64 architecture.

Enhanced the error reporting of Solaris lsof when
it detects a kvm_open() failure, and added a 00FAQ
entry on the cause, based on a report from Peter
J. Bertoncini <pjb@anl.gov>.

Enabled compiling of lsof for NetBSD 1.5 with the
NULL file system, using a patch from Andrew Brown
<atatat@atatdot.net>.

Removed a hack in the LTbigf test program that was

once needed when it was compiled on
Solaris 9 BETA-
Refresh with gcc. The hack isn't needed on Solaris
9 FCS. Janet Hempstead <jan@library.carleton.ca>
brought the need for this change to my attention.

Applied a patch, supplied by Andrew Brown
<atatat@atatdot.net>, that updates lsof for NetBSD
version 1.6F. Corrected handling of the NetBSD
nullfs.

Updated to BSDI BSD/OS 4.3 on a test system kindly
provided by Terry Kennedy <terry@tmk.com>.

Updated to FreeBSD 4.7.

Updated to Apple Darwin 1.5, 5.x and 6.x with
patches supplied by Allan Nathanson <ajn@apple.com>.
The patches include IPv6 support.

Updated Configure to use the -bnolibpath loader
option when building lsof on a PowerPC, running
AIX 5 or greater. Valdis Kletnieks
<Valdis.Kletnieks@vt.edu> informed me this was
needed. Lsof for AIX 5.x was initially developed
on the IA64, where -bnolibpath can't be used and
I didn't think to restore it to PowerPC loads when
AIX 5.x became available for that architecture.

Updated
to UnixWare 7.1.3 on a test system provided
by Larry Rosenman <ler@lerctr.org>. Removed claims
that lsof works on OpenUNIX 8.0.1, because UnixWare
7.1.3 is the release name of OpenUNIX 8.0.1.

Based on a comment that his e-mail address was
wrong in the lsof distribution from Kenneth Stailey
<kstailey@disclosure.com>, removed all e-mail
addresses from lsof documentation files except this
one, 00DIST. The addresses in 00DIST are used to
send revision release notices to those who contributed
to a revision, but the addresses in this file for
previous revisions and in other documentation files
sometimes grow stale and are never validated.

4.66 December 22, 2002
Acquired Solaris 7 and 8 test systems, courtesy of
John Dzubera <Zube@CS.ColoState.EDU>. Updated

00TEST and tests/TestDB accordingly.

Clarified FreeBSD 5.0 architecture claims at the
suggestion of David O'Brien <obrien@NUXI.com>.
Also implemented David's suggestion to change
Intel to x86.

Installed
changes to DNLC handling in OSR lsof in
preparation for handling changes in the OSR 5.0.7
DNLC cache. Information about the changes and
patches to handle them were supplied by Bela Lubkin
<filbo@deepthought.armory.com>.

Upgraded True 64 UNIX support to the 5.1B release
on a test system provided by Berkley Shands
<berkley@cse.wustl.edu> Had to used relaxed ANSI
compilation because of an error in a system header
file and other lsof source usages.

Implemented the HASNOSOCKSECURITY compile-time
option. When it and HASSECURITY are defined, lsof
will be built to list only the user's open files,
but will also list anyone else's open socket files,
provided the "-i" option selects their listing.
Updated the Customize script to ask about setting
HASNOSOCKSECURITY. Left it undefined in all dialect
machine.h header files. This change was requested
by Kenneth Stailey <kstailey@speakeasy.net> for
use with ntop.

Added support for OpenBSD
3.2 and its kernel trace
file.

Improved lsof help (-h) and version (-v) information
reporting.

Fixed a FreeBSD 4.7 and above off-by-two UNIX domain
socket path termination bug, reported by Ken Stailey
<kstailey@speakeasy.net>

4.67 March 27, 2003
Began the transition of the lsof ftp server host
name from vic.cc.purdue.edu to lsof.itap.purdue.edu.
That reflects Purdue organizational changes. This
first step makes the new name an alias to the old
one. The old name, vic.cc.purdue.edu, will remain

usable for an extended period.

Corrected a revision number reference in section
17.17 of 00FAQ on the appearance of Solaris negative
DNLC caching handing.

Updated 00FAQ discussion of compilers for 64 bit
Solaris.

Validated test suite for 64 bit Solaris 8 and gcc.

At the request of Alek O. Komarnitsky <alek@komar.org>
added the "+c <width>" option to enable optional
changing of the COMMAND column output maximum width
from the default to <width>.
The default maximum
width remains CMDL, as defined in lsof.h.

Fixed three AIX kernel bit size detection bugs,
one in the AIX Configure script stanza, the second
and third in the AIX dproc.c get_kernel_access()
function. The bugs were reported by Pierre-Yves
Fontaniere <pyf@cc.in2p3.fr>, who tested the fixes.

Added kernel event queue file support for FreeBSD,
NetBSD and OpenBSD. Andrew Brown <atatat@atatdot.net>
supplied the code.

Updated to AIX 5.2 on a test system provided by
Dale Talcott <dtalcott@purdue.edu>. Had to build
work-arounds for two missing AIX 5.2 header files,
<j2/j2_snapshot> and <proc/proc_public.h>. Corrected
an off-by-one UNIX socket addressing bug. Taught
AIX lsof to handle both jfs and jfs2 files at the
same time. Adjusted for an IBM mistake in the
sizing of the fdsinfo structure in <procinfo.h>
Toshiya Nakamura <TOSHIYAN@jp.ibm.com> helped test,

Updated to FreeBSD 4.8. Corrected another bug in
FreeBSD UNIX domain
socket name handling.

Corrected gcc build problems on HP-UX 11i, reported
by Yuliy Minchev <yuliy@mobiltel.bg>.

Updated BSDI BSD/OS support to 4.3.1.

Augmented a lock ID test on NetBSD to check if the

ID is an LWP pointer.

4.68 June 18, 2003
Enhanced Configure script's cleanup operations.

Added support for OpenBSD 3.3, based on a report
from Peter Valchev <pvalchev@sightly.net>.

Improved the description of the detached PGP
signature certificate file in the main lsof README
file, based on a suggestion from Diana Stockdale
<diana@mpl.ucsd.edu>.

Installed a work-around for FreeBSD 5.0-CURRENT on
Alpha to avoid a compiler register use complaint.

Corrected a 'c' option error message. Gnele
<blaadeleng@yahoo.com> reported the problem.

Upgraded EXT2FS and UFS support for NetBSD and
OpenBSD to handle new inode information, and the
fast UFS1 and UFS2 file systems.

With the help of Andrew Brown <atatat@atatdot.net>
determined the NetBSD snapshot
(1.6F) at which
<sys/mount.h> could be included under _KERNEL, thus
eliminating the lsof netexport.h hack. The same
change applies to OpenBSD versions 3.3 and above.

Applied a patch from Armin Gruner <ag@muc.de> that
corrects the use of the HASPROCFS definition in the
FreeBSD dialect sources.

Corrected spelling errors in 00FAQ and in the
generated 00.README.FIRST_<version> file of the
distribution archive. John Jackson <jrj@purdue.edu>
and Ray Phillips <r.phillips@jkmrc.uq.edu.au>
spotted and reported the errors.

Corrected a spelling error in a comment and incorrect
use of an alarm function in the LTsock test program.

At the suggestion of Stuart Anderson <sba@srl.caltech.edu>
added preliminary (and incomplete) SAM-FS file system
support to Solaris lsof. Completion awaits availability
of SAM-FS internals.

Fixed a Solaris device name printing bug, reported by
Ric Anderson <ric@tick.Telcom.Arizona.EDU>, only
visible when HASDCACHE is
not defined. Ric helped
test the fix.

Fixed an AIX kernel bit size handling bug related
to the NFS node (rnode) structure.

Corrected a print_kptr() function call error in the AIX
AFS code, reported by David Steiner
<david.r.steiner@Dartmouth.EDU>. Upon further reflection
and because I no longer have appropriate AIX AFS test
systems, disabled AIX AFS support in the Configure script
for AIX versions above 4.3.3.0 or AIX AFS versions above 3.5.

Added support for FreeBSD 5.1.

With advice from Allan Nathanson <ajn@apple.com> adjusted
the Darwin get-xnu-headers.sh script to access the kernel
header files needed by lsof from a new form of the Apple
open source repository.

Installed Linux and lsof library bug fixes and
improvements, supplied by Marian Jancar <mjancar@suse.cz>.
One Linux improvement handles mount strings that
have octal escapes in them, eg., \040 for embedded
blanks. Marian tested the changes.

4.69 October 16, 2003
Received and
applied an OpenBSD patch from Peter Valchev
<pvalchev@sightly.net> that replaces a ctob() call with
a sysconf() call. Peter claims sysconf() is needed for
OpenBSD on SPARC. (It is not needed for NetBSD on SPARC.)

With the upgrade of my only Solaris 7 test system
to, Solaris 8, dropped the *claim* that lsof works
on Solaris 7. That doesn't mean it won't work
there, so those who want lsof for Solaris 7 probably
should be able to build it there and it probably
will work there.

Revised lsof's DNLC handling for BSD derivatives,
including: BSDI; Darwin, DEC OSF/1, Digital UNIX
and Tru64 UNIX; FreeBSD; NetBSD; and OpenBSD. The
latest NetBSD distribution's dropping of the vnode
capability ID (v_id) required the revision.

Adjusted to the latest FreeBSD 5.1-CURRENT.

Added NetBSD support for using kvm_getproc2().

Added a patch from Andrew Brown <atatat@atatdot.net>
to handle NetBSD enum conflicts and changes in the
<miscfs/kernfs/kernfs.h> and <miscfs/procfs/procfs.h>
header
files.

Added a "#define _KERNEL" to the AIX dnode2.c source
file for compatibility with a new <j2/j2_inode.h>
AIX 5.2 header file version. The addition was
supplied by Dick Dunbar <Dick.Dunbar@Siebel.com>
and was offered as a patch to lsof 4.68/

Added support for a second type of Solaris SAMFS.
Stuart Anderson <sba@srl.caltech.edu> provided the
support. SAMFS support in lsof SOLARIS remains
scanty, because Sun won't release any details on
its kernel structures.

Dropped the *claim* that lsof works on AIX 4.3.3,
because I was unable to test it there. That doesn't
mean it won't work there, so those who want lsof
for AIX 4.3.3 probably should be able to build it
there and it probably will work there.

Updated for Solaris 10 on test systems provided by
Mike Miscevic <miscevic@hotpop.com>. Casper Dik
<casper@holland.sun.com> provided significant help.
During the Solaris 10 port found and fixed an lofs
handling bug that
prevented reporting of open lofs
file lock status.

Updated the DNLC test, LTdnlc, to provide a possible
explanation about file systems on which the test
might fail.

Modified the procedure for obtaining missing Darwin
XNU kernel header files. The new one requires more
manual intervention, but is the best that can be
done with the way Apple open sources are now
organized. 00FAQ explains the new procedures for
those not used to downloading Apple open source
files.

Added support for Apple Darwin 7.0 (Mac OS X 10.3)
with patches supplied by Allan Nathanson <ajn@apple.com>.
Dropped the *claim* that lsof builds and works on
Apple Darwin below 6.0.

Validated lsof on FreeBSD 4.9, using a test system
provided by Ben Lewis <bl@purdue.edu>.

Validated lsof on FreeBSD 5.1-CURRENT for Amd64.
David O'Brien <obrien@FreeBSD.org> provided a test
system.

Changed the NetBSD Configure stanza to do header
file searches in /usr/include by default. The
LSOF_INCLUDE
and NETBSD_SYS environment variables
may still be used to specify other search paths.
Discussions with Andrew Brown and Wolfgang S.
Rupprecht <wolfgang@wsrcc.com> led to the change.

4.70 January 16, 2004
Improved shell-portability of the linux stanza of
the Configure script with a patch from Paul Jarc
<prj@po.cwru.edu>.

Added a "silent" rule to tests/Makefile for Paul.
Updated, extended and clarified the test suite
documentation in 00FAQ and 00TEST.

Fixed Solaris 10 dlsof.h typo, reported by Mike
Miscevic <miscevic@hotpop.com>. The typo prevents lsof
from loading cleanly in Solaris 10 builds past 40.

Fixed a Solaris HSFS node number reporting bug and
added a structure definition work-around for Solaris
10.

Converted PGP signing to GPG. My previous PGP key can
be used, but the gpg "--allow-non-selfsigned-uid"
option may have to be used when it is imported into a
GPG key ring.

Added bz2 compression.

Updated for OpenBSD 3.4.

Added

a work-around for a missing header file in the
s10_44 Solaris 10 build.

Added support for FreeBSD 5.2-BETA and 5.2-CURRENT.

Updated Linux AX25 support with modifications supplied
by Lutz Poetschulat <dl9cu@db0zwi.de>.

Added raw IPv6 support to Linux lsof.

Improved handling of parameters after "-i@".

Improved file name test in LTdnlc.c.

Added loop count controls to the reading of Solaris
lock chains. The change was implemented as a result of
a report from Steve Gonczi <steve@relicore.com>.

Based on a report from John Jackson <jrj@purdue.edu>,
enabled a Solaris 10 <sys/lgrp.h> work-around for
Solaris 9, too. (Patch 112233 installs an lgrp.h on
Solaris 9 that needs the work-around.)

With help from Andrew Brown <atatat@atatdot.net> and
John Heasley <heas@netbsd.org> added log-structured
file system (LFS) support for NetBSD and OpenBSD.

Added AMD64 to the list of FreeBSD 5.x-CURRENT
supported architectures. FreeBSD.org provides a test
system,
courtesy of (I believe) David O'Brien
<obrien@FreeBSD.org>.

Added a cast to lseek() in the HP-UX /dev/kmem-based
kread() function to make it work properly with the
bundled HP C compiler.

4.71 March 11, 2004
Added text file support to Apple Darwin lsof and
enabled the lsof executable portion of the LTbasic
test. Added support for Darwin kernel queue, POSIX
semaphore and POSIX shared memory files. Tested on
Darwin 7.2 (aka Mac OS 10.3.2).

Added process_kqueue() function prototypes for FreeBSD,
NetBSD and OpenBSD.

Picked some lint in AIX sources, lib/rnmh.c and

tests/LTsock.c.

Added "-x [fl]" cross-over option, which enables +d and +D processing to cross over symbolic links and|or file system mount points. Discussion with Johan Lindquist <johan@smilfinken.net> and Eric Williams (aka The Ghost In The Machine) <ewill3@earthlink.net> on Linux news groups revealed the need for the option.

Updated support for UnixWare 7.1.4.

Added support for the optional reporting of socket options, socket states and TCP flags for most currently supported dialects. John Smith <lbalbalba@hotmail.com> and Tristan Nefzger <tn@bhtrader.com> requested the information. The dialects and their versions for which this feature has become available include:

AIX 4.3.2 and 5.[12]
Apple Darwin 7.2
BSDI BSD/OS 4.3.1
Digital UNIX and Tru64 UNIX 4.0
FreeBSD 4.9 and 5.2
HP-UX 11 and 11.11 (aka 11i)
NetBSD 1.6ZH
OpenBSD 3.4
OPENSTEP 4.2
OpenUNIX 8
SCO OpenServer Release 5.0.6
Solaris 2.6, 8, 9 and 10
UnixWare 7.1.[134]

Modified the Configure stanza for HP-UX 11 with better q4 detection. Steve Bonds <3vhmxxm02@sneakemail.com> supplied the modification.

Applied a patch from Mike Miscevic <miscevic@hotpop.com> to enable lsof to compile with the zone support in the Solaris 10 s10_b51 release. Added information on lsof zone behavior to 00FAQ.

Added a "-z [z]" option to Solaris 10 lsof. It enables the listing of zone name and can also be used to select the listing of processes and their files from specified zones.

4.72 July 13, 2004

Corrected Solaris 10 ZONE column title display bug with a patch from Joep Vesseur <Joep.Vesseur@Sun.COM>. Joep's fix was offered as a patch to 4.71.

Based on a report from Jean-Pierre Radley <jpr@jpr.com> about an unexpected GNU uname Configure interaction on OSR, and working from information received from Bela Lubkin, changed the OSR Configure stanza to use /bin/uname instead of uname. Added an FAQ entry about Configure version detection problems.

Added the +m and "+m m" options in response to a dialog with Robert T. Brown <rbrown@netmentor.com>. The options allow the creation of a mount table supplement file which can be used on selected dialects to get device numbers when stat(2) and lstat(2) can't deliver them. (That's generally the result of an inaccessible NFS server.) Currently the new options are supported only on Linux.

Made cpumask_t typedef _KERNEL compensation for FreeBSD 5.2-CURRENT. Refined it for 5.2.1-RELEASE with testing help from Scott Ellentuch <tuc@ttsg.com>.

Added support for FreeBSD 4.10. Larry Rosenman <ler@lerctr.org> kindly provided a test system.

Added support for NetBSD 2.0 with patches supplied by Andrew Brown <atatat@atatdot.net>. Andrew also provided two test systems.

Made handling of Linux maps file more robust, based on a report from Jan Blunck <J.Blunck@tu-harburg.de>. As a side benefit, made handling of generated stat(2) information more flexible.

As a result of a discussion with Jason Fortezzo <fortezza@mechanicalism.net>, adjusted lsof for Solaris to obtain the maximum user name length from ut_name of the utmpx structure, if <utmpx.h> exists.

Tested under OpenBSD 3.5.

Updated 00README information about using gcc (via the Configure aixgcc abbrevisiation)

to compile lsof on
AIX. Ann Janssen <ajanssen@nebook.com> made me aware
the information was out of date.

Added an AIX SIGDANGER handler and some 00FAQ sections
on lsof memory usage after a discussion with Tom Qin
<tom.qin@citigroup.com> about lsof memory usage.

Added scripts/sort_res.perl5, contributed by Fabian
Frederick <fabian.frederick@gmx.fr>. The script
displays lsof output sorted by size and path name.

Improved handling of files on Linux NFS mount points
that use the root_squash option, based on discussions
with Paul Szabo <psz@maths.usyd.edu.au>.

Updated FreeBSD 5.2-CURRENT support, based on a problem
report from Filippo Natali <filippo@widestore.net>.

Corrected improper FreeeBSD 5.x-CURRENT #if condition,
reported by Kim Culhan <kimc@kim.net>.

Added a Configure script work-around for AIX 5.2 lsof
with JFS2, compiled by gcc >= 3.3. The work-around
was supplied by Florian M. Weps <fmw@hactrn.ch>.

4.73 October 21, 2004
Added
an __XPG4_CHAR_CLASS__ #define before
#include'ing <ctype.h> on Solaris to restore lsof's
ability to display special characters such as acute-e.

Added wide-character (e.g., UTF-8) support where
possible, prompted by a request from Kyungjoon Lee
<kjoonlee@gmail.com>. Some older dialects -- e.g.,
NetBSD 1.4.1 -- don't support wide characters, so the
wide character support is enabled by definitions in
each dialect's machine.h. Dialects with wide-
character support are listed in 00FAQ.

Make a FreeBSD 5.2-CURRENT adjustment for <sys/pipe.h>,
supplied by Sergey A. Osokin <osa@FreeBSD.ORG>.

Implemented a Linux feature request made by Jakub
Jelinek <jakub@redhat.com> that enhances lsof's ability
to locate UNIX domain sockets whose paths are named as
arguments. Jakub supplied suggested code.

Dropped *claims* that lsof works on AIX below 5.1, SCO
Dropped *claims* that lsof works on AIX below 5.1, SCO
Openserver 5.0.4, Tru64 UNIX 5.0, and UnixWare
below
7.1.4. Lsof will probably build and work on those UNIX
dialect versions, but I no longer have any way to test
lsof on them.

Added support for FreeBSD 5.3 and 6.0. The FreeBSD
5.3 support hasn't been tested.

Added FD test code that will allow dialect versions to
test FD option selections. Used the new code in the
PSTAT-based HP-UX lsof to enable it to avoid scanning
the mount table when its information is not needed.
The addition was made in response to a query from
Harvey Garner <Harvey.Garner@championusa.com> about
lsof performance in a busy NFS environment.

Upgraded lsof's AIX support level to AIX 5.3, based on
a report from Dick Dunbar <Dick.Dunbar@Siebel.com>. (I
have not tested lsof under AIX 5.3.) Based on Dick's
recommendation and local testing changed the C for AIX
version 6 and higher -qmaxmem option value to -1.

Made LSOF_AR environment variable more useful and
documented it in 00XCONFIG.

Corrected the use of sum(1) to
generate signatures for
the lsof distribution and binaries to match the
documentation that claims it is sum -r output. Jin
Guojun <jin@george.lbl.gov> noticed and reported the
problem.

Tested under OpenBSD 3.6.

Added checksum and GPG certificate files for the bz2,
gz and Z lsof distribution archives. The new files
reside with the distribution archives and supplement
the signature information already inside the archives.

Validated on Solaris 10, i8xpc, build s10_63.

4.74 January 17, 2005
Fixed a Solaris segment fault bug on systems that lack
a /dev/allkmem device. Offered the fix as a patch to
lsof 4.73. The bug was reported by Donald Zoch

<donald.zoch@amd.com>.

Updated lsof for FreeBSD 6.0 and higher for a change in
<sys/vnode.h>, based on a report from Sergey A. Osokin
<osa@FreeBSD.ORG>. Made the update available in a 4.74
'A' edition pre-release.

Filed an HP bug report about missing pstat(2) CWD info
for LOFS on HP-UX 11.11 and higher.
The missing CWD
info was noticed by Ermin Borovac <e.borovac@bom.gov.au>.
Added info to 00FAQ about the problem, which can cause
the lsof test suite's LTbasic test to fail.

Updated the q4-generated tcp_s.h in the lsof
distribution and added socket option support for HP-UX
11.00. Erwin Reyns <ereyns@europarl.eu.int> helped
test.

Updated for Solaris 10, build s10_69, with a patch
supplied by Mike Miscevic <miscevic@hotpop.com>.

Added v_path support to Solaris 10 lsof. That relieves
it of having to read and decode the kernel DNLC, and
delivers full paths more reliably.

Added specialized NFS4 support to Solaris 10 lsof.

Applied Solaris 10 patches to lsof supplied by Casper
Dik <casper@holland.sun.com>.

Updated lsof for NetBSD 2.99.10 and tested it on a
system provided by Andrew Brown <atatat@atatdot.net>.

Added support for the FreeBSD 6.0-CURRENT f_vnode
pointer in the file structure.

Added BSDI, FreeBSD, NetBSD and OpenBSD support for
the
*effnlink member of the inode structure. This makes
the lsof LTnlink test run faster on all modified
dialects and correctly on OpenBSD.

Added ptyfs support for NetBSD, using modifications
provided by Andrew Brown.

Changed the netbsd Configure stanza to look by default
for system header files in both /usr/include and

/usr/src. (The NETBSD_SYS environment variable can
still be used to select an alternate for /usr/src.)

Corrects two FreeBSD 4.10 RPC/XDR type definitions.

Added an FAQ Q&A about setuid and setgid restrictions
in HP-UX 11.11. The information in the answer was
supplied by Frank Sanders <frank.sanders@siemens.com>.

Added abbreviations for AXI FCIO and FSNAPSHOT file
flags. Holger VanKoll <Holger.VanKoll@swisscom.com>
reported the missing FCIO.

Adjusted lsof's private AIX 64 bit rnode structure for
64 bit AIX 5.2 systems. (IBM doesn't distribute a
correct <nfs/rnode.h> for it.)

Corrected a Linux socket inode printing bug
reported by
Igor Schein <igor@txc.com>.

Updated for FreeBSD 4.11. The support compiles but
hasn't been tested.

Back-ported a FreeBSD 6.0-CURRENT fix to FreeBSD
5.3-RELEASE-p1. That was done to solve a compilation
problem reported by Radko Keves <rado@daemon.sk>.

4.75 May 16, 2005
Dropped the *claim* that lsof works on DEC OSF/1 and
Digital UNIX, since my last 4.0 test system has been
removed. The last tested distribution of lsof on DEC OSF/1
and Digital UNIX was revision 4.74. It has been archived
on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

Added negation forms to the values in the -g (PGID) and
-p (PID) lists. Negated PGID and PID values, like
negated UID or login name values, are applied without
ORing or ANDing and take effect before any other
selection criteria are applied.

At the request of Marcin Gozdalik <gozdal@gmail.com>
added a -X option for Linux. The option inhibits the
reading of the /proc/net/tcp* and /proc/net/udp*
files.

Based

on a report from David Gutierrez
<davegu1@hotmail.com> changed DEC OSF/1 process table
allocation to request memory in smaller increments.

Based on a report from jayjwa <jayjwa@atr2.ath.cx>
updated the Customize script to use "tail -n 1" where
possible.

Enabled support for FreeBSD 5.4.

Improved the BSDI, FreeBSD, NetBSD, OpenBSD and Solaris
kvm_open() and kvm_openfiles() error messages.

Enabled support for NetBSD 2.99.12.

Improved HP-UX Configure stanza with help from Piet
Starreveld <pstarrev@csc.com>. Picked some lint Piet
found.

Enabled IPv6 support for HP-UX > 11. Piet Starreveld
helped test it on 11.23, among others.

Updated for HP-UX 11.23 on the ia64 architecture.

Updated to latest FreeBSD 6.0-CURRENT, using a test
system provided by Andrzej Tobola <ato@iem.pw.edu.pl>.

Added support for SCO OSR 6.0.0 and UnixWare 7.1.4 with
help from Richard at SCO.

Corrected a Linux bug in NFS handling, reported by Karel
Zak
<kzak@redhat.com>. Karel supplied a patch.

Improved the code for accessing an AIX 3.2 and higher
sockaddr_un structure, thus eliminating a segmentation
fault possibility.

Updated for AIX 5.3.

Added preliminary (DEBUG) support for the AIX SANFS
file system.

Fixed a bug in the Solaris 10 processing of the vnode's
v_path pointer with code supplied by Edward Jajko
<ejajko@portal.com>. The fix was offered as a patch to
4.74.

Dropped support for OpenUNIX 8, since a test system is no longer available. Archived an OpenUNIX-only distribution of the last revision (4.74) tested on OpenUNIX in pub/tools/unix/lsof/OLD/src.

Tested under Openbsd 3.7.

Tested under Darwin 7.7.0.

Enabled building on amd64 Solaris 10 with hints from Marc Aurele La France <tsi@ualberta.ca>. Marc provided a test system.

Supplied a missing quote in the FreeBSD Configure stanza. Carl Cook <Info@quantum-sci.com> reported the problem.

Removed "-O" option from tests/Makefile so that the HP-UX bundled compiler won't complain.

4.76 August 30, 2005

Corrected an example and spelling errors in man page.

Updated for Apple Darwin 8.x with changes supplied by Allan Nathanson <ajn@apple.com>. Allan also provided a test system.

Completed documentation of CLRLFILEADD in all machine.h files.

At the request of Chris Markle <cmarkle@sendmail.com> added partial listen queue length to socket options displayed when -Tf is specified. Partial queue length is not reported for all dialects. (00FAQ lists the ones where it is reported.)

Updated for FreeBSD 7.0 with information supplied by Andrzej Tobola <ato@iem.pw.edu.pl>.

Updated Solaris VxFS support for VxFS versions 4 and above with technical advice from Craig Harmer <craig_harmer@symantec.com>, Gary Millen <gary_millen@symantec.com> and Chuck Silvers <charles_silvers@symantec.com>. Testing help was provided by Michael Antlitz <mantlitz@prophasys.com>, Steve

Ginsberg <steve@dhapdigital.com> and Kenneth
Stailey <kstailey@yahoo.com>.

Fixed a Solaris address space map processing bug.
Janardhan Molumuri <mjanardhan@gmail.com> reported the
bug and help me identify it. Made the fix available as
a patch to 4.75.

Added support for Solaris 10 port and CTFS files. The
CTFS support is imcomplete, because I don't know how
to get inode number, size and link count. (There's
a new 00FAQ entry about that.)

Investigated a report from Christopher J Warweg
<warwegc@GAO.GOV> that the CHECKSUMS for the lsof 4.75
binary for 64 bit Solaris 8 was incorrect. It was my
packaging error. I rebuilt and repackaged the binary.

Enabled support for Linux map file names with embedded
spaces.

4.77 April 10, 2006
Added -X option support for Solaris 10 and above. When
-X is specified lsof will report cached v_node path
names for unlinked files, followed by "(deleted)".
Improved cached vnode path name handling by adding
"(?)"
to the end of path names of questionable accuracy.
Updated 00FAQ to reflect these changes.

Updated for FreeBSD 7.0-CURRENT.

Fixed name addition spacing bug, reported by Stuart
Anderson <anderson@ligo.caltech.edu>. Also updated
Solaris 10 SAMFS support at Stuart's request.

Added missing "break;" and another HASSTATVFS test to
the NetBSD and OpenBSD dnode.c. Bill Behr
<bbehr@networkstoragecorp.com> reported those needs.

Fixed an HP-UX 11 file descriptor "chunk" size problem,
reported by Per Allansson <per@appgate.com>. Per helped
devise the fix and tested it. This fix was offered as
a patch to lsof 4.76.

Updated for FreeBSD 6.0-STABLE and FreeBSD
6.1-PRERELEASE.

Updated scripts/sort_res.perl5 with changes supplied by Frederick Fabian <fabian.frederick@skynet.be>, the author of the script.

Corrected +|-M man page documentation error, reported by Roger Cornelius <rac@tenzing.org>.

Improved FreeBSD user device random seed generation in response to a problem report from Danny Braniss <danny@cs.huji.ac.il>.

Eliminated three syntax error bugs and other compiler complaints from the PSTAT-based lsof. H. Merijn Brand <h.m.brand@xs4all.nl> reported the problems and tested the fixes.

Eliminated compiler complaints in the test suite.

Investigated problems with the building of lsof on PA-RISC HP-UX 11.23, based on a report from John Orndorff <John.Orndorff@sungard.com>. Found that neither the HP bundled C compiler nor gcc would build lsof, but the the HP unbundled ANSI C compiler would. Concluded that HP bundled C compiler can't handle <gssapi/gssapi.h>. Devised a work-around to gcc's omission of the rpcent structure definition of <netdb.h> that allows it to compile lsof's print.c, but the resulting binary doesn't run reliably. Documented the situation in 00FAQ.

Changed reporting of unknown file types. The number of an unknown type is now reported as four octets. The change was made in response to a Linux lsof bug report from Karel Zak <kzak@redhat.com>.

Dropped the *claim* that lsof works on BSDI BSD/OS since my last test system has been removed. The last tested distribution of lsof for BSDI BSD/OS was revision 4.76. It has been archived on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

As a result of discussing the lsof source tar's MD5 checksum with Andrew Bell <andrew.bell.ia@gmail.com>, changed the description of a suitable MD5 tool in the lsof distribution's documentation to name the openssl "dgst" command.

Enabled compilation on Solaris 10 1/06 with a fix sent
by Jason Fortezzo <fortezza@mechanicalism.net>. Made
the fix available as a patch to 4.76.

Adjusted to FreeBSD 5.5-PRERELEASE.

Corrected a bug in the lsof library's process_file()
function to enable the locating of AIX XTI sockets by
their TCP/IP address values. The bug was reported by
Michel Dubois <Dubois@sears.ca>.

Based on a bug report
from Karel Zak <kzak@redhat.com>
added command name length checking to as many dialects
as possible (Linux for Karel) for the "-c c" option.

Updated for OpenBSD 3.[89]. Tested the 3.9 update on a
system provided by David Mazieres. I have not tested
on OpenBSD 3.8, but David reports lsof 4.76 worked
there.

Ended regression testing of lsof on 32 bit Solaris 8
with the ending of access to a test system. Lsof
continues to be tested on 64 bit Solaris 8.

4.78 April 24, 2007
Added more information to the lsof FAQ about missing
link counts and sizes on Linux files.

Simplified Linux stat() and lstat() usage.

Relocated #define's that prevent OpenBSD compilation on
systems without a /proc file system. Pieter Bowman
<bowman@math.utah.edu> reported the problem.

Added code to avoid processing Linux /proc/<PID>/maps
file entries with zero device and node numbers. Some
such entries now have names associated with them that
are not path names -- e.g.,
"[heap]", "[stack]" or
"[vdso]". Scott Worley <sworley@chkno.net> reported
lsof's mishandling of such entries.

Added SELinux security context support, provided by
James Antill <james.antill@redhat.com>. I have not
tested this, but James and Karel Zak <kzak@redhat.com>
have.

Added the #include of <sys/types.h> to Solaris lsof to
enabled compilation on Solaris 10 6/06. Peter Harvey
Peter.Harvey@Sun.COM diagnosed the problem and supplied
a patch.

Added better support for JFS2 on AIX 5.2 and 5.3, based
on bug reports and help from Thomas Braunbeck
<BRAUNBEC@de.ibm.com> and Tom Whitty <TWHITTY@cerner.com>.

Documented that lsof supports AIX 5.3 only up through
maintenance level 1 (ML1).

Enabled Solaris lsof to locate the AFS vnode operation
address for OpenAFS 1.4.1. The fix was supplied by
Robert Jelinek <Robert.Jelinek@MorganStanley.com>.

Enabled support for Solaris 10 ZFS. If the necessary
ZFS header files aren't found, lsof offers the option
to
drop ZFS support, to use internal, possibly
inaccurate structure definitions, or to supply a path
to the missing header files. Horst Scheuermann
<Horst.Scheuermann@uni-trier.de> provided a development
system and helped test the support.

Corrected a typo in the man page, reported by Eric S.
Raymond <esr@thyrsus.com>.

Changed the spelling of macroes to macros in lsof
source and documentations files, based on a suggestion
from Josh Soref <timeless@gmail.com> and verification
with the OED.

The following dialects are no longer supported: 32 bit
AIX 5.2, HP-UX 11, OpenStep 4.2, Solaris 2.6, Solaris
8, True Unix 64 and UnixWare 7.1.4. Lsof may work on
them, but I no longer have test systems for them.
Support for OpenBSD ends at its version 3.9 for lack of
interest in the port.

4.79 April 15, 2008

********** IMPORTANT NOTE **********
* *
* Lsof support has been reduced to the following
*
* dialects: AIX, FreeBSD, Linux and Solaris, and *

```
* only in selected versions of those dialects.   *
* The selected versions are listed in this file  *
* and in other lsof documentation.               *
*                                                *
* I have made this move because of retirement    *
* and because I no longer have many test systems *
* available to me.                               *
*                                                *
* Vic Abell                                      *
*                                                *
**************************************************
```

Fixed a Solaris VXFS permission problem when accessing the VXFS inode offsets. The bug was reported by Gregory A. Ivanov <ivga@mts.ru>. Gregory tested the fix.

Moved an #include <string.h> later in FreeBSD dlsof.h to enable compilation on recent FreeBSD releases. The change was supplied by Roy Marples <uberlord@gentoo.org>.

Improved Linux /proc file stream reading speed by applying an expanded version of a patch from Eric Dumazet <dada1@cosmosbay.com> that allocates a page size buffer to each stream. Improved TCP, TCP6, UDP and UDP6 hashing by determining the hash bucket count from the /proc/net sockstat and sockstat6 files. The improvement was suggested by Eric and he provided sample code. Eric also tested both improvements.

Modified Configure script to build lsof on FreeBSD 6.2. Tested it on a system provided by Larry Rosenman <ler@lerctr.org>.

Fixed a Linux maps file processing bug that prevented path names from having an embedded colon. James Lingard <jchl@arastra.com> reported the bug and helped with its fix.

Based on reports from Eric Dumazet and Samuel Thibault <samuel.thibault@ens-lyon.org> added support for the Linux 2.6.22 kernel's /proc/<PID>/fdinfo files -- i.e., file offset and flags. Samuel Thibault provided a test system.

Fixed a Linux UNIX socket

memory leak, reported by
Philip Shin <pshin@xceedium.com>. Phillip supplied the
fix.

With generous assistance from HP added support for an HP-UX
11.23 patch that makes TLI/XTI socket address information
available.

Fixed a header file problem for FreeBSD 6.2 on the Alpha
architecture. The problem was reported by Pekka Honkanen
<phonkane@cc.hut.fi>. Pekka tested the fix.

Based on a report and using suggested fixes from Karel Zak
<kzak@redhat.com>, made these changes to Linux lsof: corrected
a getpidcon() error message; insured that inode numbers are
handled correctly for their unsigned long long type; and
improved SELinux handling. At the request of Alon Bar-Lev
<alonbl@gentoo.org> added the LINUX_HASSELINUX environment
variable to enable or inhibit SElinux support unconditionally.

Updated Configure for FreeBSD 8.0-CURRENT and tested lsof on
AMD64 there.

Added a patch provided by Oles Hnatkevych
<don_oles@able.com.ua> for FreeBSD systems where
the root
file system is on a CD9660 device.

Added compensation for the disappearance of FMARK and FDEFER
from the FreeBSD 8.0-CURRENT <sys/file.h>.

Updated FreeBSD lsof with ZFS support. Larry Rosenman
<ler@lerctr.org>, Erwin Lansing <erwin@FreeBSD.org>, Wesley
Shields <wxs@atarininja.org> and Dmitry Morozovsky
<marck@rinet.ru> provided test systems.

Fixed a socket file identification problem reported by
Pavol Rusnak <stick@gk2.sk>. Pavol also reported the
cause of the problem.

Added the ability to format the repeat mode marker line
with strftime(3), where the dialect supports the
localtime(3) and strftime(3) C library functions. The
addition was suggested by Mike Depot <mdepot@comcast.net>,
who also tested it. The addition required creating a new
main lsof source module, util.c, that contains functions
whose compilation conflicts with the general header file
tree defined by lsof.h and dlsof.h.

Based on reports from Andrei V. Lavreniyuk
<andy.lavr@reactor-xg.kiev.ua>
and Pav Lucistnik
<pav@FreeBSD.org> updated the FreeBSD 7.0 and above
file lock handling to use new locking structures. The
update requires a terrible hack to get a definition for
the lock owner structure from a kernel source module
into a local lsof header file.

4.80 May 12, 2008
Updated for a FreeBSD 7.0 and above byte level locking
change. The problem was reported by Conrad J. Sabatier
<conrads@cox.net>, who helped test the update. Wesley
Shields <wxs@FreeBSD.org> provided an 8.0-CURRENT test
system.

Propagated the FreeBSD 7.0 and above locking changes to
FreeBSD 6.x, based on a report from Edwin Groothuis
<edwin@FreeBSD.org>.

Added warnings for unsupported dialects or versions.

Added Linux support for the UDPLITE protocol. Eric
Dumazet <dada1@cosmosbay.com> supplied a patch.

Added a missing quote to the Configure script's
FreeBSD stanza.

Added a usage.o rule to the HP-UX PSTAT-based
Makefile. I mistakenly
deleted the rule at revision
4.79. The missing rule was reported by Kawaljeet Kaur
<kawaljeet.malviya@gmail.com> who tested the corrected
Makefile.

4.81 October 21, 2008
Updated the Darwin libproc sources with changes from
Allan Nathanson <ajn@apple.com>. Tested them on a iMac
mini, provided by Apple Inc.

Changed dummy declarations in library source files to
eliminate complaints about unused variables and empty
object files. This change may not work on dialects I
can no longer test; it has been tested on some versions
of AIX, Darwin, FreeBSD, Linux and Solaris.

At the request of Hal Brooks <hal@uga.edu> added support

for Linux /proc/net/packet files. Hal tested it.

Added socket file only performance enhancements to Linux
and PSTAT-based HPUX lsof.

Added htonl call around improper usage of INADDR_LOOPBACK;
report from an Apple engineer forwarded by Allan Nathanson
<ajn@apple.com>.

Adjusted for FreeBSD-8.0 change in device number
handling.
The adjustment should work for FreeBSD 5 and above, should
the 8.0 change be propagated downward. The problem was
reported by Pav Lucistnik <pav@FreeBSD.org>. An updated
test system was provided by Erwin Lansing <erwin@FreeBSD.org>.

Reduced AIX support to version 5.3, since test systems with
older versions are no longer available to me.

At the request of Marjo F. Mercado <mmercado@xceedium.com>
and Phil Shin <pshin@xceedium.com> applied some speed
improvements to lsof, particularly when the files of
interest are /Internet files -- i.e., selected with lsof's
"-i" option. Added a two new options to assist the
improvements: 1) "-c^<command>" to tell lsof to exclude the
named command(s); and 2) "-stcp|ud>:[^]state' to tell lsof
to include in its reporting or exclude ('^') from its
reporting Internet files in the named states (e.g., LISTEN,
^CLOSE_WAIT, IDLE, etc.) For the most part these changes
apply only to AIX, Darwin, FreeBSD, PSTAT-based
HP-UX, Linux
and Solaris, since those are the only places I could test
them. They are controlled by the HASTCPUDPSTATE definition
in each dialect's machine.h header file. Marjo and Phil
provided HP-UX 11.23 and 11.31 test systems.

Fixed a stat(2) problem on HP-UX 11.31 while testing the
speed improvements.

Adjusted for kernel header file changes in FreeBSD
8.0-CURRENT. Larry Rosenman <ler@lerctr.org> provided
a test system.

Added a warning for Solaris systems where VxFS node info
can't be obtained from the VxFS utility library. The
warning was requested by Tom Matthews <Tom.MATTHEWS@rbs.com>.

Corrected mishandling of file system path name arguments

that have trailing slashes, except, of course, the root
file system, "/". Allan Nathanson <ajn@apple.com> reported
the bug.

4.82 March 25, 2009
Corrected an over-zealous exclusion test that caused
lsof to report nothing when it was given no arguments
and built with HASSECURITY and HASNOSOCKSECURITY
enabled.
Joshua Kinard <kumba@gentoo.org> reported the bug and
supplied information for reproducing it.

Based on a report from Dan Trinkle <trinkle@cs.purdue.edu>
corrected use of <sys/utsname.h> for 32 bit Solaris 10
and above compilations. Simultaneously eliminated a
casting complaint in arg.c and updated Configure to use
the appropriate 64 bit compilation option (-xarch=v9 or
-m64) with the Solaris Sun C compiler.

Updated for FreeBSD 7.1-PRERELEASE with information
supplied by Larry Rosenman <ler@lerctr.org>.

Updated the Darwin libproc sources with changes from
Allan Nathanson <ajn@apple.com>. Tested them on a iMac
mini, provided by Apple Inc. Allan also provided man
page corrections.

Updated the FreeBSD Makefile to use the ${MAKE} variable
for ZFS dnode2.c module compilation, based on a suggestion
from Alexis Ballier <aballier@gentoo.org>.

Improved the Solaris VxFS library location test, based on a
suggestion from Jason Fortezzo
<fortezza@mechanicalism.net>.
Jason tested the change.

Updated Solaris 10 ZFS support for ZFS version 4 and ZFS
pool version 10, using a test system kindly provided by
Vladislav Nespor <vladislav.nespor@id.ethz.ch>. Renata
Maria Dart <renata@slac.stanford.edu> tested on ZFS
version 4, verifying that the update works there, too.
(ZFS pool version 10 is apparently the ZFS version shipped
with the 10/08 update to Solaris. The original ZFS
support targeted ZFS version 3.)

I still consider ZFS support in Solaris lsof a hack,
because it depends on a znode structure definition that
I developed using dbx. Sun is remiss in not distributing

the ZFS header files used to build the distributed kernel.

Because of the znode structure definition hack, I can't guarantee that lsof ZFS support will work for any other versions of ZFS.

Solaris 10: adjusted to a change in the way devices are stored in the kernel; fixed a problem in zone handling; and added rudimentary sharedfs support. Carson Gaspar <carson@taltos.org> reported the device number problem, provided a test system, and tested the changes. Peter Vines <psv2b@eservices.virginia.edu> reported the zone handling problem and tested the fix.

Adapted to FreeBSD 8.0-CURRENT changes in device number computation. Problem was reported by Erwin Lansing <erwin@FreeBSD.org>. Larry Rosenman <ler@lerctr.org> provided a test system.

Corrected Solaris Configure test for appropriate VxFS library when using gcc to compile lsof.

Updated for loss of KAME IPv6 FreeBSD accommodations.

Adapted to FreeBSD 7.2. Made Configure script recognized FreeBSD 6.3.

4.83 January 18, 2010

Converted Solaris 10 and above ZFS support to use the CTF debugger library, libctf. Code was supplied by Robert Byrnes <Robert.Byrnes@deshaw.com>.

Corrected a typo in the testing of the LINUX_HASSELINUX environment variable in the Configure script. The error was reported by Mike Frysinger <vapier@gentoo.org>.

At Mike's request made Configure script accept LSOF_RANLIB (ranlib command), LSOF_CFGF (additional configuration flags) and LSOF_CFGL (additional library specifications) from the environment.

Enabled complilation of Solaris 10 lsof after a recent Sun patch which changed the PC file system's structure. Peter Vernam <pvernam@draper.com> reported the problem and helped with the fix.

Made the sort of configuration CFLAGS in the CkTestDB

script impervious to locale settings.

Ported to Solaris 11, using a test system kindly provided
by David Day <dday76@gmail.com>.

Adjusted to the disappearance of <nfs/rpcv2.h> in FreeBSD
8.0-BETA1.

Changed Solaris node type lookup to a hashed method and
added some ability for it to handle duplicate vnodeop names
in /dev/ksyms.

Updated for FreeBSD 9.0-CURRENT. Andrzej Tobola
<ato@iem.pw.edu.pl> provided a test system. Extends the
fix to FreeBSD 6.0 and above via a Configure test and
a
compile-time definition. The need for the extension was
reported by Erik Trulsson <ertr1013@student.uu.se>>

Made corrections to FAQ typographical errors, suggested
by Josh Soref <timeless@gmail.com>.

Added __UCLIBC__ test to Linux dlsof.h so lsof would compile
on an Intel ARM XScale processor. The addition was provided
by Doug Kehn <rdkehn@yahoo.com>.

Added test for <utmpx.h> to FreeBSD configuration. Improved
its use in lsof.h. The changes were supplied by Martin Wilke
<miwi@FreeBSD.org>.

4.84 July 29, 2010
Fixed a man page nroff command error with a correction
supplied by Josh Soref <timeless@gmail.com>.

Made Configure script recognize FreeBSD 7.3. Larry Rosenman
<ler@lerctr.org> provided a test system.

Improved task support, initially for Linux only, with help
provided by Jerome Marchand <jmarchan@redhat.com> and
Miklos Szeredi <mszeredi@suse.cz>. The support includes a
new compile-time definition, HASTASKS, and a new run time
option,
"-K" to select task reporting.

While adding help output support for "-K", reorganized the
printing of help columns to make it much easier to add a new
option description.

Updated the Solaris PC file system structure patch in
revision 4.83 so it will compile with gcc.

Disabled the Solaris lgrp_root work-around in the Solaris
machine.h so it won't cause compilation problems on Solaris
11. It no longer causes compilation problems on my Solaris
9 and 10 test systems, but some older Solaris 9 and 10
versions may still need it, so the work-around was left in
the Sun machine.h and a FAQ entry was created about it.

Updated for Solaris 11 b134, using a test system kindly
provided by Carson Gaspar <carson@taltos.org>. Made
provisions for the next ZFS version. Added info about
the failure of the LTnlink test on ZFS file systems.

Corrected typo in Configure script, reported by Dmitry
Berezin <dmitryb@oit.rutgers.edu>.

4.85 September 27, 2011
John
Dzubera <Zube@CS.ColoState.EDU> kindly provided a patched
Solaris 9 test system with the lgrp_root conflict and I was
able to devise an automatic work-around for the conflict. The
special note in .../dialects/sun/machine.h was removed and
the 17.28.1 FAQ entry was modified to reflect the update.

Added a Solaris 11 work-around for a typedef problem with
<sys/mutex.h>. Carson Gaspar <carson@taltos.org> reported
the problem and supplied the work-around.

Added support for FreeBSD 7.4 and 8.2; tested on systems
provided by Larry Rosenman <ler@lerctr.org>.

Added support for 32 bit Solaris 11 lsof with mods supplied
by Jan Wortelboer <J.H.P.Wortelboer@uva.nl>.

Added Solaris 11 support for using an alternate genunix
location. Bill Goodridge <bill@its.brooklyn.cuny.edu>
reported the alternate location.

Added further Linux cross configuration support to lsof's
Configure script. The additional support was supplied by
Grant Erickson <erick205@umn.edu>.
See the descriptions of
the LINUX_* environmen variables in 00XCONFIG for more
information. Tested lsof on Linux kernel 2.6.32 and picked
some lint that surfaced during the test.

Added fixes and changes for Apple Mac OS X 10.6, provided by
Allan Nathanson <ajn@apple.com>. Allan also provided a test
system.

Tested on FreeBSD 6.4 i386, using a test system provided by
Terry Kennedy <TERRY@tmk.com>. Updated for recent FreeBSD ZFS
changes on an 8.2 amd64 test system also provided by Terry.

Changed documentation to indicate FreeBSD 7.x is no longer
supported, since I no longer have a test system.

Made some changes to the lsof man page, suggested by Navid
<evi1m4chine@googlemail.com>.

Added compensation for Solaris 10 systems that have patch
144488-10. The patch requires that the new header file
<sys/socket_proto.h> be included while _KERNEL is defined.
Brett Bartick <Brett.bartick@nomura.com> reported the problem
first, followed by Stuart Anderson
<anderson@ligo.caltech.edu>.
Michael Hocke <michael.hocke@nyu.edu> suggested a work-around
which I refined to limit it to the specific Solaris 10 instance
and then tested on a system provided by Charles Stephens
<cfs@cowlabs.com>

Added the +|-e option for Linux. It exempts file systems
named by path from function calls that might block in the
kernel -- i.e., stat(2) and lstat(2), and when the +e form
is used, readlink (2). The new packager of lsof for the
Linux Fedora and RHEL distributions, Peter Schiffer
<pschiffe@redhat.com>, asked for the feature so it could
be used with Clearcase file systems, whose implementation
can block stat(2) calls. I consider this feature very risky
and easy to misuse -- e.g., specifying the file system as
'/' would exempt all file systems. I don't intend to
propagate this option to any other UNIX dialect that lsof
currently supports.

Made FreeBSD 9 adjustment.

Fixed a Linux bug that prevented the display of paths
for
abstact UNIX sockets. Masatake Yamato <yamato@redhat.com>
reported the bug and supplied a patch.

Added compensation for the removal of RPC header files from
GlibC 2.14 for Linux. Marek Behun <kabel@blackhole.sk>
reported the problem and supplied a patch.

Added support for Linux Netlink protocol. Masatake Yamato requested the support and supplied a patch. Peter Schiffer <pschiffe@redhat.com> provided a test system.

Corrected Linux UDP6-lite path. The error was reported by Masatake Yamato and he also supplied a patch.

4.86 April 10, 2012

Lsof for AIX is no longer supported on any versions of that operating system.

Added information about the clang compiler for FreeBSD to the FAQ.

Corrected an arg.c bug in the accumulation of +|-e option values, reported by Peter Schiffer <pschiffe@redhat.com>. This correction was supplied as a patch to revision 4.85.

Enabled FreeBSD 10 support and tested it there on a system provided by Larry Rosenman <ler@lerctr.org>.

Updated for latest Solaris 11 with patches supplied by Carson Gaspar <carson@taltos.org>. Carson supplied a test system.

Adjusted Linux file system search method to compensate for NFS mounts that have duplicate device numbers. The problem was reported by Peter Schiffer <pschiffe@redhat.com>, who provided a test system.

At the request of Peter Schiffer <pschiffe@redhat.com>, added support for Linux SCTP socket files. Peter provided a test system. Applied a warning patch supplied by Peter.

Added support for Mac OS X 10.7 (Lion), provided by Allan Nathanson <ajn@apple.com>. Allan also supplied a test system.

Enabled FreeBSD 8.3 support and tested it there on a system provided by Larry Rosenman <ler@lerctr.org>.

Corrected the FAQ information on ZFS with Solaris 10 after Steven Blackmon <stblackm@cisco.com> and Prasad Jampala <jampalp@cisco.com> pointed out that it was incorrect -- i.e., outdated by the libctf changes at

revision 4.83.

Added code to handle a Linux NFS-mounted root. Jia He
<hejianet@linux.vnet.ibm.com> reported the need for this.

4.87 January 2, 2013
Added an entry to 00FAQ about lsof behavior when the
HASSECURITY and HASNOSOCKSECURITY options are defined.
Carson Gaspar <carson@taltos.org> pointed out the need
for this clarification.

Added a work-around for a missing definition of mach_port_t
in Darwin 9 (Mac OS/X 10.5.8). The work-around was supplied
by Jim Reid <jim@rfc1035.com>.

Added support for Linux anon_inodefs, provided by Masatake
YAMATO <yamato@redhat.com>.

Documented a Solaris 9 and 10 portmap reporting problem
(+M) in 00FAQ. The problem was reported by Clint
Roberts <Clint.Roberts@ttius.com>. I have no solution
to the problem, but discuss a possible work-around in
the answer to this 00FAQ question: "Why doesn't lsof
report portmap registrations for some Solaris versions?"

Added FreeBSD support for the oldnfs and newnfs file system
types.
Daniel Braniss <danny@cs.huji.ac.il> reported the
need for the addition.

Added ICMP socket support for Linux with code provided by
Masatake YAMATO <yamato@redhat.com>.

Corrected the reporting of process group ID for libproc
versions of Mac OS X with a patch from Jeff Trawick
<trawick@gmail.com>. The patch has not been applied to
Darwin kmem versions, because of little call for them
and inadequate test system access. The patch has been
tested on Mac OS X 10.8 (Mountain Lion), courtesy of a
test system provided by Allan Nathanson <ajn@apple.com>.

Added thread support to those FreeBSD versions that have
ki_numthreads in their kinfo_proc structure. This also
activates the -K option for those FreeBSD versions. Jeff
Trawick reported problems with FreeBSD lsof when threads
are present and this addition solves those problems.

Made changes to 00FAQ and the distribution, suggested by

Warren Young <warren@etr-usa.com>. The 00FAQ changes
center
on sections that discuss the -s option. The changes
to the distribution include a ChangeLog file that is either
a pointer to or a copy of 00DIST, the distribution notes.

Added support to FreeBSD for using the clang compiler.

Added Linux support for using the getxattr() call to obtain
socket protocol identification when it is can't be obtained
from the /proc/net files that lsof examines. Masatake YAMATO
<yamato@redhat.com> developed the kernel patch to getxattr()
and supplied the lsof patch.

4.88 October 13, 2014
Reduced to 50 the number of open file descriptors lsof
attempts to close while trying to protect itself from a
file descriptor exec() attack. This limits the overhead
lsof incurs on systems that have large file descriptor
limits, yet provides sufficient open descriptors for the
library functions lsof calls.

Updated for changes in FreeBSD 10 with advice from Eygene
Ryabinkin <rea@freebsd.org>. Taught Configure to recognize
FreeBSD
8.4.

Herein am noting that lsof for Solaris 10 or 11 is no longer
supported. I no longer have test systems. Some support is
still available from Casper Dik <Casper.Dik@oracle.com> and a
Solaris 11 patch he provided is included in this revision.

Initialized local variables in the Linux process_id() function.
Jia He <jiakernel@gmail.com> reported the problem.

Added support for FreeBSD 11.

Updated FreeBSD ZFS Configure stanza to supply a dummy
opt_kdtrace.h when needed.

Added tmpfs file system support for FreeBSD.

Since a test system is no longer available, dropped the
claim of FreeBSD 4.9 support.

Added the +|-E options for Linux. -E displays endpoint info;
+E displays endpoint info and endpopint files. Masatake YAMATO
<yamato@redhat.com> requested this support and suggested code

to implement it.

Fixed a Linux bug handling processes whose command includes a non-printing character, particularly a NEWLINE character, and clarified printing of single '\\' characters in command and file names. Stephane Chazelas <stephane.chazelas@gmail.com> reported the problem.

Added support for Linux RDMA and CRYPTO protocal names and UNIX socket type with code from Masatake YAMATO <yamato@redhat.com>.

Fixed field output to insure that the field descriptor field is always selected, since it identifies the file set. The bug was reported by Gary Plewa <gary.m.plewa-1@lowes.com>.

4.89 July 7, 2015

Applied correction from Casper Dik <Casper.Dik@oracle.com> to his patch for Solaris 11 that I applied incorrectly in revision 4.88.

Updated for latest version of FreeBSD 11.0-CURRENT.

Compensated for a missing FreeBSD 10.0 typedef of bool on the i386 architecture. Allen Hewes <rallenh@hotmail.com> provided a test system. Andrey Chernov <ache@freebsd.org> provided useful advice.

Improved tests/Add2TestDB script with a patch from Peter Schiffer <pschiffe@redhat.com>. Added patches from Peter to eliminate Linux gcc warnings. Updated Lsof.8 with improvements supplied by Bjarni Ingi Gislason <bjarniig@rhi.hi.is>.

Changed FreeBSD global CFLAGS extraction per Terry Kennedy <TERRY@tmk.com>. Also made sure -DNEEDS_BOOL_TYPEDEF is #define'd when the resulting CFLAGS doesn't contain it. Terry reported that need.

Improved Linux test for tcp.h in response to a report from Cato Auestad <cato@cato.ninja>. Cato did the testing.

Fixed Linux UNIX socket search by name bug reported by Stephane Chazelas <stephane.chazelas@gmail.com>.

Added Linux display of UNIX socket endpoint information with code provided by Masatake YAMATO <yamato@redhat.com>. Peter Schiffer <pschiffe@redhat.com> provided a test system.

Insured that type definitions from <vm/vm.h> were again made
visible to lsof on FreeBSD 11 after a system header file change
hid them.

4.90 February 14, 2018

!!!NOTE!!!

structure during a race condition. The patch was supplied by
Bryan Drewery <bdrewery@FreeBSD.org>.

Updated FreeBSD for new UFS inode structure that lacks an i_dev
member in the most recent 12.0-CURRENT. Larry Rosenman
<ler@lerctr.org>
reported the problem and provided a test
system.

Added "#define KLD_MODULE" to dlsof.h and dnode2.c to prevent
<machine/cpuconf.h> from generating an "ARM_NARCH is 0" error.
This is needed so lsof can access kernel structures. Larry
Rosenman supplied the addition.

Added recognition of the FreeBSD 11 file system name "nullfs".
Jamie Landeg-Jones <jamie@catflap.org> supplied the fix.

Added a patch from Larry Rosenman <ler@lerctr.org> that is
needed on FreeBSD 12 so the lsof compilation can obtain the
inpcb and tcpcb structures from their respective header files.

Updated FreeBSD dmnt.c for the ino64 changes.

Inserted a patch for Solaris 12.x to avoid compilation errors
from <sys/aio_req.h>, based on information provided by Jorn
Clausen <joern.clausen@uni-bielefeld.de>. Jorn tested the
patch.

Added performance enhancement that uses the FreeBSD closefrom()
and dup2() C library functions when available. The enhancement
was supplied by
Conrad Meyer <cem@freebsd.org>.

Corrected FreeBSD lsof's gathering of ZFS file device numbers.

Updated lsof test library for FreeBSD.

Updated socket optons information collection from the socket
structure per changes supplied by Gleb Smirnoff
<glebius@FreeBSD.org>.

Added patch to dlsof.h that avoids a _KERNEL conflict with
bzero. Mateusz Guzik <mjguzik@gmail.com> supplied the patch.

Corrected test library to handle 64 bit FreeBSD device numbers.

Added #defines for FreeBSD 12, src r324225, from Gleb Smirnoff
<glebius@FreeBSD.org>.

Incorporated Linux pseudoterminal endpoint processing (+|-E)
provided by Masatake YAMATO <yamato@redhat.com> with access to
test systems provided by Peter Schiffer <pschiffe@redhat.com>.

Corrected Linux command extraction for commands that include
parentheses -- e.g., "(sd-pam)".

4.91 March 26, 2018

A bug has been reported in the PTY endpoint processing of
Linux lsof 4.90 by Peter Wu <peter@lekensteyn.nl>, making it
necessary
for me to release another revision of lsof.

This revision applies two fixes that correct the Linux PTY
endpoint processing bug. Masatake YAMATO <yamato@redhat.com>
supplied the fixes.

4.92 July 14, 2018
THIS IS A FREEBSD-ONLY DISTRIBUTION!

Fixes Configure script section that creates the FreeBSD
lockf_owner.h header file; fixes <string.h> conflicts with
FreeBSD kernel header files. Mateusz Gusik supplied part of
the fix.

Released lsof to GitHub with Purdue releases documented in
support/GitHub-release.

Vic Abell <abe@purdue.edu>
July 14, 2018

4.92.1 May 6, 2019

!!!NOTE!!!

URLs in -v output and -h output are updated.

4.93.0 May 7, 2019

[freebsd] Made FreeBSD 13 adjustment.
[darwin] Fix a typo causing a build error.
Fix a potential memory leak.
[linux] use tirpc for rpc if libc doesn't provide rpc.h.
Fix a typo in man page.
[linux] fix memory leaks detected by valgrind about unix
endpoint information.
Update the description about -fg and -fG options on linux.

4.93.1 May 7, 2019

Fix a broken symbolic link.

4.93.2 May 8, 2019

Update the version number embedded in lsof executable.

4.94.0 November 11, 2020

(All changes in this version are ported from
lsof-org/lsof-linux repository at GitHub).

Introduced a new test harness. The harness can run
test cases specific to a dialect. It is designed for
running test cases on CI
environment like Travis-CI.
However, it is runnable locally with following command
line:
$ ./check.sh DIALECT
after making lsof executable.

[linux] Fixed a bug +|-E options output for pipe.
If two processes use the same fd number for a pipe
connecting them, the option didn't print the
information about it.

[linux] Fixed a bug +|-E options output for PTY.
If two processes use the same fd number for a PTY
connecting them, the option didn't print the
information about it.

[linux] Fixed a bug +|-E options output for PTY.
The code for detecting a slave device was incorrect.

[linux] Fixed a potential bug +|-E options output for
PTY. A structure field for the feature was not
initialized.

[linux] Added a code for decoding O_PATH flag in +fg
option.

[linux] Added a code for decoding O_CLOEXEC flag as CX
in +fg option.

[linux] Added a code for decoding O_TMPFILE flag as
TMPF in +fg option.

[linux] Added Linux display of INET socket
endpoint
information with +|-E option. The option handles
INET sockets using IPC.

[linux] Added support for POSIX MQ of Linux
implementation. A POSIX message queue (MQ) is
represented in a fd on Linux. lsof reported it as a
regular file. lsof with this change reports it as a
file with PSXMQ type if mqueue file system is mounted.

[linux] Added Linux display of POSIX message queue
endpoint information with +|-E option. mqueue file system
must be mounted to display the information.

[linux] Added Linux display of INET6 socket endpoint
information with +|-E option. The option handles
INET6 sockets using IPC.

[FreeBSD] update to include <sys/_lock.h> on recent -CURRENT
since it is no longer implicitly included via header pollution.

[linux] Added Linux display of eventfd endpoint information
with +|-E option. The option handles eventfd using IPC.

[FreeBSD] include <stdbool.h> for recent change requiring
refcount(9).

Enhanced -r option.
With `c<N>' specifier, lsof can stop itself
when the number of iterations reaches at <N>.

[linux] Fixed accessing an uninitialized local variable.
Detected by valgrind.

[linux] fix a crash when printing the endpoint for unaccepted
unix socket with +E option.
This closes the github issue #74 reported by @jolmg.

[linux] abort execution when failing in memory allocation for
socket private data.

[linux] decode the name of DCCP socket type.

[linux] decode more netlink protocol numbers (RDMA, CRYPTO, and
SMC).

[linux] print the connection state of unix domain socket
Lsof can print the state of TCP socket like:

```
  nc      22247 yamato    3u  IPv4 471409      0t0        TCP localhost:38802->localhost:9999 (ESTABLISHED)
```

This change exnteds this feature to support unix domain sockets.
LISTEN, UNCONNECTED, CONNECTING, CONNECTED, DISCONNECTING,
and UNKNOWN can be taken as a state.
An example of output:

```
 evince    17333  yamato    1u  unix 0x0000000054183795
   0t0  89141 type=STREAM (CONNECTED)
```

This feature is enabled by default.
To turn off printing state information, use -T option.

Don't display command usage even when a file (or directory) listed
in command line doesn't exist.
This closes the github issue #90 reported by @rowlap.

[FreeBSD] merge all the FreeBSD specific fixes from the FreeBSD sysutils/lsof port

[linux] allow reproducible builds
In a reproducible build all varied information is removed. This
change does so, by checking if the standard SOURCE_DATE_EPOCH
variable is set. If it is, we are attempting a reproducible build
and will strip varying information.
About the standard, see https://reproducible-builds.org/specs/source-date-epoch/
Provided in github pull request #93 by @T4cC0re.

[freebsd] update for r363214
- no user visible changes

Added the way to include (or exclude) all numbered file descriptors
in -d option. "fd" is a pseudo file descriptor name for the
purpose.
See the following output on Linux; lsof doesn't print cwd, rtd, txt,
and mem files.

```
# ./lsof -p $$ -a -d fd
COMMAND    PID USER   FD   TYPE DEVICE SIZE/OFF NODE NAME
bash    866421 root    0u   CHR  136,1      0t0    4 /dev/pts/1
bash    866421 root    1u   CHR  136,1      0t0    4 /dev/pts/1
bash    866421 root    2u   CHR  136,1      0t0    4 /dev/pts/1
bash    866421 root  255u   CHR  136,1      0t0    4 /dev/pts/1
```

docs: fixed minor grammatical error in instructions in Customize file
The change is provided by @hardikpnsp.

man page: improve phrasing and add examples
The change is provided by Martin D Kealey.

man page: improve explanation of -t implying -w
The change is provided by Martin D Kealey.

test cases, [linux]: fix tests for large inode-numbers (i >= 2^32)
The change is provided by Henry Peteet.

[linux] handle ffff:ffff in ipv6 addr correctly
The listen address and port of an AF_INET6 socket were not display
if
the socket listened at an ipv6 address including ffff:ffff.

Here is a command session demonstrating the bug:

```
# ip -6 addr add abcd:ef10:ffff:ffff:ffff:ffff:ffff:ff62 dev lo
# nc -6      -l  abcd:ef10:ffff:ffff:ffff:ffff:ffff:ff62 8888 &
[1] 6762
# ./lsof -p 6762 -a -d fd -P -n
COMMAND  PID   USER   FD   TYPE DEVICE SIZE/OFF    NODE NAME
nc      6762 yamato    0u   CHR  136,6      0t0       9 /dev/pts/6
nc      6762 yamato    1u   CHR  136,6      0t0       9 /dev/pts/6
nc      6762 yamato    2u   CHR  136,6      0t0       9 /dev/pts/6
nc      6762 yamato    3u  sock    0,9      0t0 5833594 protocol: TCPv6
```

The last line should be:

```
nc      6762 yamato    3u  IPv6 5833594      0t0  TCP [abcd:ef10:ffff:ffff:ffff:ffff:ffff:ff62]:8888 (LISTEN)
```

The original code decoding an ipv6 address uses UINT32_MAX constant
incorrect way.

@zhrf2020 reported this bug in #102.
@zhrf2020 provided the initial version of fix, #109.

man
page,[linux]: enumerate abbreviated flags printed with '+f g' option

Make -Fo option work
-Fo option is for printing file offset. For regular files,
the option didn't work.

Here is a command session demonstrating the fix:

```
# ./lsof -Fo -o0| grep ^o | sort | uniq -c
90586 o0t0
   87 o0t101
   84 o0t103
```

...
@JustAnotherArchivist reported this bug in #118.

man page: fix definition of the `o` field on programmatic output
The change is provided by @JustAnotherArchivist who reported
the original issue in #118.

[linux]: show the pid monitored by a pidfd
With this change, lsof prints pidfd in the following form:

    [pidfd:%d]

where %d represents the pid monitored by the pidfd.

Example output:

```
    # ./lsof -p 12573 -p 12710 | grep pidfd
    dbus-brok 12573  jet   11u  a_inode           0,13       0    13312 [pidfd:12575]
    dbus-brok 12710  jet   10u  a_inode           0,13       0    13312 [pidfd:12711]
```

fd
11 of pid 12573 monitors pid 12575.
fd 10 of pid 12710 monitors pid 12711.
This change closed #116.

Don't select the file descriptor field by default.
The version 4.88 introduced the change for selecting the file
descriptor field by default. However, the change is not
suitable for users who wants to print only PID field.
@po5857 suggests the use case and the way to improve the man page.

[linux]: enumerate fds monitored by an eventpoll fd
With this change, lsof prints an eventpoll fd in the following form:

    [eventpoll:<fd0>,<fd1>,...,<fdn>...]

Here fdX is a file descriptor monitored by the eventpoll fd.
If an eventpoll fd monitors too many file descriptors, lsof
truncates the list of fds. "..." at the end of list implies
the truncation.

Example output:

```
 # sudo ./lsof -p 1 -a -d 10,11,12
```

```
COMMAND PID USER   FD      TYPE DEVICE SIZE/OFF  NODE NAME
systemd   1 root   10u  a_inode   0,13        0 11624 [eventpoll:11,12]
systemd
1 root   11r      REG    0,4        0 17680 /proc/1/mountinfo
systemd   1 root   12r  a_inode   0,13        0 11624 inotify
```

systemd monitors fd 11 and fd 12 via eventpoll fd 10.

[linux]: implement "make check"
The target runs check.bash.

4.95.0 April 28, 2022

[n+obsd] fix syntax error
Corrected end of comment.
This change closes #138.
@albert-github reported this issue in #138,
and provided the fix in #140

Don't ignore failures in test/Makefile
Tobias Geerinckx-Rice <me@tobias.gr> provides the fix.

Update perl scripts for the past few decades of progress
Generally, perl is available on base systems - people who are manually
installing perl into /usr/local/bin are the exception rather than the
rule. In addition, Perl 5 was release in 1994, so Perl 4 isn't relevant
any more. We've also standardized on the .pl extension, rather than
.perl5 or whatever.
Provided by @dilinger (Andres Salomon) in #149.
A commit in the pull request includes work
of Nicholas Bamber.

Drop LSOF_CCDATE across all dialects to ensure reproducible builds
Simplify things for reproducible builds by just getting rid of
the embedded date/time string. With LSOF_CCDATE gone, keeping
SOURCE_DATE_EPOCH around doesn't make much sense, so drop that as
well. Folks doing reproducible builds should still override the
LSOF_HOST, LSOF_LOGNAME, LSOF_SYSINFO, and LSOF_USER variables (as
they were previously doing before SOURCE_DATE_EPOCH).
Provided by @dilinger (Andres Salomon) in #150.

[FreeBSD] get the ISO9660 filesystem working again
The ISO9660 filesystem broke starting with FreeBSD 7 due to the header

location changing. Fix the header search path to get it to be detected
again. Fix the header inclusion order. Also add the new way of finding
dev_t on more recent FreeBSD versions.
Provided by Damjan Jovanovic in #151.

[FreeBSD] add support for msdosfs on FreeBSD
Provided by Damjan Jovanovic in #151.

Fix FD field description.
In
811dc78 the output format was changed to not printf the `f`
field by default, however the field description in `lsof_fields.h`,
as seen in `-F?` output still included the `(always selected)` text.
Provided by @algorythmic (Grisha Levit) in #158.

Adjust alignment of buffer passed to stat().
The original code passes char[] buffer to stat(). This can be cause
a SIGBUS. #160 reported an actual crash on armv7a + glibc-2.33 platform.
See also https://sourceware.org/bugzilla/show_bug.cgi?id=27993.
Reported by @10ne1 in #160.

Clean up source code and documentats.
- remove trailing whitespace,
- fix some issues in scripts found through shellcheck, and
- fix spelling
Provided by @a1346054 in #163.

man page: fix hyphen issues
Properly use '-' and '\-' in the man page, ensuring that users
can cut & paste commandline options without issue. Original
patch from Raoul Gunnar Borenius <borenius@dfn.de>, and
submitted/expanded by @dilinger (Andres Salomon)
in #168.

[FreeBSD] update for FreeBSD 13 & 14, and various internal changes
submitted by @DmitryAndric & @emaste.

[FreeBSD] remove various old FreeBSD versions from support
submitted by @emaste

[FreeBSD] configure: suggest variable to set if FreeBSD sys not found
submitted by @emaste

Fix broken LSOF_CFLAGS_OVERRIDE.
Provided by Fabrice Fontaine in #172.

[linux] Remove sysvlegacy function.
Provided by Fabrice Fontaine in #195.

[linux] use close_range instead of calling close repeatedly
At the starting up, lsof closes its file descriptors greater than 2 by calling close(2) repeatedly. As reported in #186, it can take long time. Linux 5.9 introduced close_range(2). The new system call can close multiple file descriptors faster. @qianzhangyl reported the original issue (#186).

Add -Q option for adjusting exit status when failed to find a search item (#129)
In the original code, lsof returned 1 when it failed to find a search item.
With the new option, lsof returns 0 in the case.

Document -Q option in manpage/00QUICKSTART, and adjust -h output by @dilinger (Andres Salomon) in #129.

Improve readability of complex adverbial clause by adding a comma.
Provided by Danny Fowler in #156.

The lsof-org team at GitHub
April 28, 2022

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/00DIST
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
#
# list_NULf.pl    -- sample Perl 5 script to list lsof NUL-terminated
#       full field output (i.e., -F0 output)
#
```

```
# This script has been tested under perl version 5.001e.
#
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#
# Written by Victor A. Abell
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# Initialize variables.

$fhdr = 0;       # fd hdr. flag
$fdst = 0;       # fd state
$access = $devch = $devn = $fd = $inode = $lock = $name = ""; # | file descr.
$offset = $proto = $size = $state = $stream = $type = ""; # | variables
$pidst = 0;      # process state
$cmd = $login = $pgrp = $pid = $ppid = $uid = "";  # process var.

# Process the ``lsof -F'' output a line at a time, gathering
# the variables for a process together before printing them;
# then gathering the variables for each file descriptor
# together before printing them.

while (<>) {
  chop;
  @F = split('\0', $_, 999);
  if ($F[0] =~ /^p/) {

# A process set begins with a PID field whose ID character is `p'.
```

```
 if ($pidst) { &list_proc }
 if ($fdst) { &list_fd; $fdst = 0; }
 foreach $i (0 ..
 ($#F - 1)) {

    PROC: {
  if ($F[$i] =~ /^c(.*)/) { $cmd = $1; last PROC }
  if ($F[$i] =~ /^g(.*)/) { $pgrp = $1; last PROC }
  if ($F[$i] =~ /^p(.*)/) { $pid = $1; last PROC }
  if ($F[$i] =~ /^u(.*)/) { $uid = $1; last PROC }
  if ($F[$i] =~ /^L(.*)/) { $login = $1; last PROC }
  if ($F[$i] =~ /^R(.*)/) { $ppid = $1; last PROC }
  print "ERROR: unrecognized process field: \"$F[$i]\"\n";
    }
 }
 $pidst = 1;
 next;
  }

# A file descriptor set begins with a file descriptor field whose ID
# character is `f'.

  if ($F[0] =~ /^f/) {
 if ($pidst) { &list_proc }
 if ($fdst) { &list_fd }
 foreach $i (0 .. ($#F - 1)) {

    FD: {
  if ($F[$i] =~ /^a(.*)/) { $access = $1; last FD; }
  if ($F[$i] =~ /^C(.*)/) { last FD; }
  if ($F[$i] =~ /^f(.*)/) { $fd = $1; last FD; }
  if ($F[$i] =~ /^F(.*)/) { last FD; }
  if ($F[$i] =~ /^d(.*)/) { $devch = $1; last FD; }
  if ($F[$i] =~ /^D(.*)/) { $devn = $1; last FD; }
  if ($F[$i] =~ /^G(.*)/) { last FD; }
  if ($F[$i] =~ /^i(.*)/) { $inode
 = $1; last FD; }
  if ($F[$i] =~ /^k(.*)/) { last FD; }
  if ($F[$i] =~ /^l(.*)/) { $lock = $1; last FD; }
  if ($F[$i] =~ /^N(.*)/) { last FD; }
  if ($F[$i] =~ /^o(.*)/) { $offset = $1; last FD; }
  if ($F[$i] =~ /^P(.*)/) { $proto = $1; last FD; }
  if ($F[$i] =~ /^s(.*)/) { $size = $1; last FD; }
  if ($F[$i] =~ /^S(.*)/) { $stream = $1; last FD; }
  if ($F[$i] =~ /^t(.*)/) { $type = $1; last FD; }
  if ($F[$i] =~ /^T(.*)/) {
     if ($state eq "") { $state = "(" . $1; }
     else { $state = $state . " " . $1; }
```

```
      last FD;
  }
  if ($F[$i] =~ /^n(.*)/) { $name = $1; last FD; }
  print "ERROR: unrecognized file set field: \"$F[$i]\"\n";
     }
 }
 $fdst = 1;
 next;
   }
   print "ERROR: unrecognized: \"$_\"\n";
}

# Flush any stored file or process output.

if ($fdst) { &list_fd }
if ($pidst) { &list_proc }
exit(0);


## list_fd -- list file descriptor information
#       Values are stored inelegantly in global variables.

sub list_fd {
   if ( ! $fhdr) {

   # Print header
  once.

  print "     FD   TYPE     DEVICE   SIZE/OFF     INODE  NAME\n";
  $fhdr = 1;
   }
   printf "    %4s%1.1s%1.1s %4.4s", $fd, $access, $lock, $type;
   $tmp = $devn; if ($devch ne "") { $tmp = $devch }
   printf "  %10.10s", $tmp;
   $tmp = $size; if ($offset ne "") { $tmp = $offset }
   printf " %10.10s", $tmp;
   $tmp = $inode; if ($proto ne "") { $tmp = $proto }
   printf " %10.10s", $tmp;
   $tmp = $stream; if ($name ne "") { $tmp = $name }
   print "  ", $tmp;
   if ($state ne "") { printf " %s)\n", $state; } else { print "\n"; }

# Clear variables.

   $access = $devch = $devn = $fd = $inode = $lock = "";
   $name = $offset = $proto = $size = $state = $stream = $type = "";
}
```

```
# list_proc -- list process information
#       Values are stored inelegantly in global variables.

sub list_proc {
  print "COMMAND      PID    PGRP    PPID  USER\n";
  $tmp = $uid; if ($login ne "") {$tmp = $login }
  printf "%-9.9s  %6d  %6d  %6d  %s\n", $cmd, $pid, $pgrp,
 $ppid, $tmp;

# Clear variables.

  $cmd = $login = $pgrp = $pid = $uid = "";
  $fhdr = $pidst = 0;
}
```

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/list_NULf.pl
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
#
# shared.pl    -- sample Perl 5 script to list processes that share
#    file descriptors or files, using `lsof +ffn -F..."
#    output
#
# Usage: shared [fd|file]
#
# where: fd to list file descriptors (default)
#
#  file to list files
#
# This script has been tested under perl version 5.001e.


# IMPORTANT DEFINITIONS
# =====================
#
# 1.  Set the interpreter line of this script to the local path of the
#     Perl5 executable.


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# Written by Victor A. Abell <abe@purdue.edu>
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#
# 3. Altered versions must be plainly marked as such, and must not be
#    misrepresented as being the original software.
#
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# Initialize variables.

$Access = $Devch = $Devn = $Fd = $Fsa = $Inode = $Lock = # file
   $Na = $Name = "";     # | descriptor
$Cmd = $Login = $Pgrp = $Pid = $Ppid = $Uid = "";  # process var.
$Fdst = 0;       # fd state
$Hdr = 0;       # header state
$Offset = $Proto = $Size = $State = $Stream = $Type = ""; # | variables
$Pidst = 0;       # process state
$Pn = "shared";

# Set path to lsof.

if (($LSOF = &isexec("../lsof")) eq "") { # Try .. first
   if (($LSOF = &isexec("lsof")) eq "")
 { # Then try . and $PATH
 print "can't execute $LSOF\n"; exit 1
   }
}

# Define print field constants.

$CmdTtl = "CMD";
$CmdW = length($CmdTtl);
$DevTtl = "DEVICE";
$DevW = length($DevTtl);
$FdTtl = "FD";
$FdW = length($FdTtl);
$InoTtl = "NODE";
```

```
$InoW = length($InoTtl);
$KeyTtl = "FILEADDR";
$KeyW = length($KeyTtl);
$PidTtl = "PID";
$PidW = length($PidTtl);
$PpidTtl = "PPID";
$PpidW = length(PpidTtl);

# Process one (optional) argument.

if ($#ARGV >= 0) {
  $err = 0;
  if ($#ARGV > 1) { $err = 1; }
  elsif ($ARGV[0] eq "fd") {
 $KeyTtl = "FILEADDR";
 $Shfd = 1;
 $Shfile = 0;
  } elsif ($ARGV[0] eq "file") {
 $KeyTtl = "NODEID";
 $Shfd = 0;
 $Shfile = 1;
  } else { $err = 1; }
  if ($err) { die "$Pn: usage [fd|file]\n"; }
  shift;
} else { $Shfd = 1; $Shfile = 0; }
$KeyW = length($KeyTtl);

# Open a pipe from lsof.

if (!open(LSOF_PIPE, "$LSOF -R +ffn -F0pcRDfFinN |")) {
  die "$Pn: can't open pipe to: $LSOF\n";
}

# Process the lsof output a line at a time, gathering
 the variables for
# processes and files.

while (<LSOF_PIPE>) {
  chop;
  @F = split('\0', $_, 999);
  if ($F[0] =~ /^p/) {

# A process set begins with a PID field whose ID character is `p'.

 if ($Fdst) { &End_fd }
 if ($Pidst) { &End_proc }
 foreach $i (0 .. ($#F - 1)) {
```

```
    PROC: {
 if ($F[$i] =~ /^c(.*)/) { $Cmd = $1; last PROC }
 if ($F[$i] =~ /^g(.*)/) { $Pgrp = $1; last PROC }
 if ($F[$i] =~ /^p(.*)/) { $Pid = $1; last PROC }
 if ($F[$i] =~ /^u(.*)/) { $Uid = $1; last PROC }
 if ($F[$i] =~ /^L(.*)/) { $Login = $1; last PROC }
 if ($F[$i] =~ /^R(.*)/) { $Ppid = $1; last PROC }
 print "ERROR: unrecognized process field: \"$F[$i]\"\n";
    }
 }
 $Pidst = 1;
 next;
  }

# A file descriptor set begins with a file descriptor field whose ID
# character is `f'.

  if ($F[0] =~ /^f/) {
 if ($Fdst) { &End_fd }
 foreach $i (0 .. ($#F - 1)) {

    FD: {
 if ($F[$i] =~ /^a(.*)/) { $Access = $1; last FD; }
 if ($F[$i] =~ /^f(.*)/) { $Fd = $1; last FD; }
 if ($F[$i]
=~ /^F(.*)/) { $Fsa = $1; last FD; }
 if ($F[$i] =~ /^l(.*)/) { $Lock = $1; last FD; }
 if ($F[$i] =~ /^t(.*)/) { $Type = $1; last FD; }
 if ($F[$i] =~ /^d(.*)/) { $Devch = $1; last FD; }
 if ($F[$i] =~ /^D(.*)/) { $Devn = $1; last FD; }
 if ($F[$i] =~ /^s(.*)/) { $Size = $1; last FD; }
 if ($F[$i] =~ /^o(.*)/) { $Offset = $1; last FD; }
 if ($F[$i] =~ /^i(.*)/) { $Inode = $1; last FD; }
 if ($F[$i] =~ /^P(.*)/) { $Proto = $1; last FD; }
 if ($F[$i] =~ /^S(.*)/) { $Stream = $1; last FD; }
 if ($F[$i] =~ /^T(.*)/) {
    if ($State eq "") { $State = "(" . $1; }
    else { $State = $State . " " . $1; }
    last FD;
 }
 if ($F[$i] =~ /^n(.*)/) { $Name = $1; last FD; }
 if ($F[$i] =~ /^N(.*)/) { $Na = $1; last FD; }
 print "ERROR: unrecognized file set field: \"$F[$i]\"\n";
    }
 }
 $Fdst = 1;
 next;
  }
```

```
  print "ERROR: unrecognized: \"$_\"\n";
}
close(LSOF_PIPE);
if ($Fdst) { &End_fd }
if ($Pidst) { &End_proc }

# List matching files or file descriptors.

for ($pass
 = 0; $pass < 2; $pass++) {
  foreach $key (sort keys(%Fds)) {
 @Praw = split(' ', $Fds{$key}, 999);
 if ($#Praw < 1) { next; }
 if ($Shfd) { @P = sort Sort_by_FD_and_PID @Praw; }
 else { @P = sort Sort_by_PID_and_FD @Praw; }

  # Accumulate and print blocks of (key, PID, FD) triplets.

 for ($i = 0; $i < $#P; $i++) {
    if ($Shfile) {
  for ($n = 0; $n <= $#P; $n++) {
     ($pid, $fd) = split(",", $P[$n], 999);
     $PrtPid[$n] = $pid;
     $PrtFd[$n] = $fd;
  }
  $i = $n;
    } else {
  ($pid, $fd) = split(",", $P[$i], 999);
  $PrtFd[0] = $fd;
  $PrtPid[0] = $pid;
  for ($n = 1; $i < $#P; $i++, $n++) {
     ($nxtpid, $nxtfd) = split(",", $P[$i + 1], 999);
     if ($fd ne $nxtfd) { last; }
     $PrtFd[$n] = $nxtfd;
     $PrtPid[$n] = $nxtpid;
  }
    }
    if ($n > 1) { &Print_block($key, $n, $pass); }
 }
  }
}
exit(0);


## End_fd() -- process end of file descriptor

sub End_fd {
```

```
  local ($key);

  if ($Fdst && $Pidst && $Pid ne "") {
 if ($Cmd ne "") { $Cmds{$Pid}
 = $Cmd; }
 if ($Ppid ne "") { $Ppids{$Pid} = $Ppid; }
 $key = $Shfd ? $Fsa : $Na;
 if ($key ne "") {
    if (!defined($Fds{$key})) { $Fds{$key} = "$Pid,$Fd"; }
    else { $Fds{$key} .= " $Pid,$Fd"; }
    if ($Name ne "" && !defined($Name{$key})) { $Name{$key} = $Name }
    if ($Inode ne "" && !defined($Inodes{$key})) {
  $Inodes{$key} = $Inode;
    }
    if ($Devn ne "" && !defined($Devns{$key})) {
  $Devns{$key} = $Devn;
    }
 }
  }

# Clear variables.

  $Access = $Devch = $Devn = $Fd = $Fsa = $Inode = $Lock = "";
  $Na = $Name = $Offset = $Proto = $Size = $State = $Stream = $Type = "";
  $Fdst = 0;
}


## End_proc() -- process end of process

sub End_proc {

# Clear variables.

  $Cmd = $Login = $Pgrp = $Pid = $Ppid = $Uid = "";
  $Fdst = $Pidst = 0;
}


## Print_block() -- print a block of entries
#
# entry:
#
# @_[0] = block's key
# @_[1] = number of entries in the block
# @_[2] = print pass status (1 == print)

sub Print_block {
```

```
  my ($key, $n, $pass)
= @_;

  local ($fd, $i, $pid, $t, $tW);

  if ($pass) {
if (!$Hdr) {
    printf "%${KeyW}.${KeyW}s", $KeyTtl;
    printf " %${PidW}.${PidW}s", $PidTtl;
    printf " %${PpidW}.${PpidW}s", $PpidTtl;
    printf " %-${CmdW}.${CmdW}s", $CmdTtl;
    printf " %${FdW}.${FdW}s", $FdTtl;
    printf " %${DevW}.${DevW}s", $DevTtl;
    printf " %${InoW}.${InoW}s", $InoTtl;
    printf " NAME\n";
    $Hdr = 1;
} else { print "\n"; }
  }

# Loop through block.  During a non-print pass, caclulate maximum field widths.

  for ($i = 0; $i < $n; $i++) {
$fd = $PrtFd[$i];
$pid = $PrtPid[$i];

  # Process key.

if (!$pass) {
    $tW = length(sprintf("%s", $key));
    if ($tW > $KeyW) { $KeyW = $tW; }
} else { printf "%s", $key; }

  # Process PID.

if (!$pass) {
    $tW = length(sprintf(" %s", $pid));
    if ($tW > $PidW) { $PidW = $tW; }
} else { printf " %${PidW}.${PidW}s", $pid; }

  # Process parent PID.

$t = defined($Ppids{$pid}) ? $Ppids{$pid} : "";
if (!$pass)
{
    $tW = length(sprintf(" %s", $t));
    if ($tW > $PpidW) { $PpidW = $tW; }
} else { printf " %${PpidW}.${PpidW}s", $t; }
```

```
  # Process command name.

$t = defined($Cmds{$pid}) ? $Cmds{$pid} : "";
if (!$pass) {
    $tW = length(sprintf(" %s", $t));
    if ($tW > $CmdW) { $CmdW = $tW; }
} else { printf " %-${CmdW}.${CmdW}s", $t; }

  # Process file descriptor.

if (!$pass) {
    $tW = length(sprintf(" %s", $fd));
    if ($tW > $FdW) { $FdW = $tW; }
} else { printf " %${FdW}.${FdW}s", $fd; }

  # Process device number.

$t = defined($Devns{$key}) ? $Devns{$key} : "";
if (!$pass) {
    $tW = length(sprintf(" %s", $t));
    if ($tW > $DevW) { $DevW = $tW; }
} else { printf " %${DevW}.${DevW}s", $t; }

  # Process node number.

$t = defined($Inodes{$key}) ? $Inodes{$key} : $t;
if (!$pass) {
    $tW = length(sprintf (" %s", $t));
    if ($tW > $InoW) { $InoW = $tW; }
} else { printf " %${InoW}.${InoW}s", $t; }

  # Print name and line terminater, if this
is a print pass.

if ($pass) {
    if (defined($Name{$key})) { print " $Name{$key}\n"; }
    else { print "\n"; }
}
  }
}


## Sort_by_FD_and_PID() -- sort (PID,FD) doublets by FD first, then PID

sub Sort_by_FD_and_PID {

  local ($pida, $pidb, $fda, $fdj, $rv);
```

```
  ($pida, $fda) = split(",", $a);
  ($pidb, $fdb) = split(",", $b);
  if ($fda < $fdb) { return(-1); }
  if ($fda > $fdb) { return(1); }
  if ($pida < $pidb) { return(-1); }
  if ($pida > $pidb) { return(1); }
  return(0);
}


## Sort_by_PID_and_FD() -- sort (PID,FD) doublets by PID first, then FD

sub Sort_by_PID_and_FD {

  local ($pida, $pidb, $fda, $fdj, $rv);

  ($pida, $fda) = split(",", $a);
  ($pidb, $fdb) = split(",", $b);
  if ($pida < $pidb) { return(-1); }
  if ($pida > $pidb) { return(1); }
  if ($fda < $fdb) { return(-1); }
  return(0);
  if ($fda > $fdb) { return(1); }
}


## isexec($path) -- is $path executable
#
# $path   = absolute or relative path to file to test for
 executabiity.
#     Paths that begin with neither '/' nor '.' that arent't found as
#     simple references are also tested with the path prefixes of the
#     PATH environment variable.

sub
isexec {
  my ($path) = @_;
  my ($i, @P, $PATH);

  $path =~ s/^\s+|\s+$//g;
  if ($path eq "") { return(""); }
  if (($path =~ m#^[\/\.]#)) {
 if (-x $path) { return($path); }
 return("");
  }
  $PATH = $ENV{PATH};
  @P = split(":", $PATH);
```

```
  for ($i = 0; $i <= $#P; $i++) {
 if (-x "$P[$i]/$path") { return("$P[$i]/$path"); }
  }
  return("");
}
```

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/scripts/shared.pl
No license file was found, but licenses were detected in source scan.

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*/
/* Extended regular expression matching and search library,
  version 0.12.
  (Implements POSIX draft P1003.2/D11.2, except for some of the
  internationalization features.)
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Boston, MA 02111-1307, USA. */

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/lib/regex.c
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```
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 *
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*/
/*
* GetOpt() -- Local get option
*
* Liberally adapted from the public domain AT&T getopt() source,
```

```
* distributed at the 1985 UNIFORM conference in Dallas
*
* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/
```

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/main.c
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*
 4. This notice may not be removed or altered.
*/
/*
     * If this is a regular file with a non-numeric FD, it may be the
     * executable.
     */
```

Found in path(s):
* /lsof-4-95-0-orig-1-tar-bz2/lsof_4.95.0.linux/tests/LTbasic.c

1.124 python-cryptography 41.0.7-4ubuntu0.1

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1.134 log-rotate 3.21.0-2build1

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1.135 libyaml 0.2.5-1build1

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1.137 gdbm 1.23-5.1build1

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
==========

1. Berkeley Packet Filter (BPF) requirement
2. Running Wireshark as a non-root user

For general installation instructions, see the INSTALL file, along with
the Developer's Guide located at https://www.wireshark.org/docs/ and
in the docbook/ directory. Additional BSD specific notes and requirements

follow.

1. Berkeley Packet Filter (BPF) requirement

In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw-------  1 root  wheel
 0,  90 Aug 10 21:05 /dev/bpf0
crw-------  1 root  wheel    0,  91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

2. Running wireshark as a non-root user

Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation
on how to make permanent these changes as they
are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the
permissions to rw-rw-r--),

 user {user}

to set the user who owns the device, or

 group {group}

to set the group that owns the device and adding a line such as

 devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

 [localrules=10]
 add path 'bpf*' mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in
the "wheel" group.

1.142 libnetfilter-conntrack 1.0.9-6build1

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1.147 json-c 0.17-1build1

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1.148 libonig 6.9.9-1build1

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1.149 btrfs-progs 6.6.3-1.1build2

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1.150 wayland 1.22.0-2.1build1

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1.151 libedit 3.1-20230828-1build1

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1.152 python-cffi 1.16.0-2build1

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1.153 jbig-kit 2.1-6.1ubuntu2

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1.154 distro-info 1.7build1

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1.159 gettext 0.21-14ubuntu2

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

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

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from a designated place, then offering equivalent access to copy the
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compelled to copy the source along with the object code.

@item

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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
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creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
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that is part of the Library, the object code for the work may be a
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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
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Library will still fall under Section 6.)

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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
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directing the user to the copy of

this License. Also, you must do one
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@item
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
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that the user who changes the contents of definitions files in the
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@item
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@subheading END OF TERMS AND CONDITIONS

@page
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the Program is not required to print an announcement.)
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entire whole, and thus to each and every part regardless of who wrote it.

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exercise the right to control the distribution of derivative or
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received the program in object code or executable form with such
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@end enumerate

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making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
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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

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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.

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to attach them to the start of each source file to most effectively
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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.}
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when it starts in an interactive mode:

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

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

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1.160 libjpeg-turbo 2.1.5-2ubuntu2

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1.161 gobject-introspection 1.80.1-1

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

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

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

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

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

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

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

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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.)

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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,

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

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

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

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

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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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Version 2.1, February 1999

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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.
Copyright pages are not identified by a title or heading, however
they require a TITLE in order to be included in PDF viewer outlines
and the Table of Contents. Supplying '.TITLE "Copyright"'
but disabling the DOCHEADER achieves both these requirements.
.
Pagination
 should also be disabled for the copyright page. Both
docheader and pagination should be re-enabled before the START of
the first chapter.
..
.
.\" Cover setup
.
.\" By default, mom uses the last TITLE macro before START for the
.\" title that appears on the cover. Since the TITLE is "Copyright,"
.\" mom needs to be told explicitly to use a different title.
.
.\" Cover and PDF viewer setup
.
.DOCTITLE "Book Title"
.TITLE DOC_COVER \
 "*[$DOCTITLE]" \" Title for the cover page
.AUTHOR \
 "Book Author"
.DOC_COVER \

```
 TITLE AUTHOR
.PDF_TITLE  \
 "DOCTYPE CHAPTER with copyright page" \" For PDF viewer titlebar
.
.\" Copyright page setup
.
.PRINTSTYLE TYPESET
.DOCTYPE    DEFAULT \" Copyright page is not a chapter.
.
.DOCHEADER  off 1i  \" Turn off docheader for copyright page.
.                   \" Begin text 1 inch from page top.
.PAGINATION off     \" Disable pagination for copyright page.
.
.TITLE "Copyright"  \" Required for the PDF viewer outline; does not
.
                    \" get printed because docheader is disabled.
.NO_TOC_ENTRY       \" So copyright page is not included in the TOC
.
.START              \" Begin example copyright page
All rights reserved.  No part of this publication may be reproduced,
distributed, or transmitted in any form or by any means, including
photocopying, recording, or other electronic or mechanical methods,
without the prior written permission of the publisher, except
in the case of brief quotations embodied in critical reviews
and certain other noncommercial uses permitted by copyright
law.  For permission requests, write to the publisher, addressed
Attention: Permissions Coordinator, at the address below.
.SP
.LEFT
Copyright \[co]2019 Copyright Holder
.SP
Additional information...
.TOC_AFTER_HERE \" Place TOC after copyright page.
.
.COLLATE
.
.\" Chapter setup
.
.DOCTYPE CHAPTER  \" Begin using DOCTYPE CHAPTER.
.TITLE \
 "\*[$DOCTITLE]" \" Needed for page headers.
.                \" Only required
 before first chapter.
.CHAPTER 1
.CHAPTER_TITLE \
 "Sample Chapter"
.DOCHEADER       \" Re-enable docheader.
.PAGINATE        \" Re-enable pagination.
```

.PAGENUMBER 1
.
.START \" Begin first chapter.
.PP
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed at
ante. Mauris eleifend, quam a vulputate dictum, massa quam dapibus
leo, eget vulputate orci purus ut lorem. In fringilla mi in ligula.
Pellentesque aliquam quam vel dolor. Nunc adipiscing. Sed quam odio,
tempus ac, aliquam molestie, varius ac, tellus. Vestibulum ut nulla
aliquam risus rutrum interdum. Pellentesque lorem. Curabitur sit
amet erat quis risus feugiat viverra. Pellentesque augue justo,
sagittis et, lacinia at, venenatis non, arcu. Nunc nec libero. In
cursus dictum risus. Etiam tristique nisl a nulla. Ut a orci.
Curabitur dolor nunc, egestas at, accumsan at, malesuada nec, magna.
.PP
Nulla facilisi. Nunc volutpat. Vestibulum ante ipsum primis in
faucibus orci luctus et ultrices posuere cubilia Curae;
 Ut sit
amet orci vel mauris blandit vehicula. Nullam quis enim. Integer
dignissim viverra velit. Curabitur in odio. In hac habitasse platea
dictumst. Ut consequat, tellus eu volutpat varius, justo orci
elementum dolor, sed imperdiet nulla tellus ut diam. Vestibulum
ipsum ante, malesuada quis, tempus ac, placerat sit amet, elit.
.PP
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parturient montes, nascetur ridiculus mus. Pellentesque aliquet
lacus vitae pede. Nullam mollis dolor ac nisi. Phasellus sit amet
urna. Praesent pellentesque sapien sed lacus. Donec lacinia odio
in odio. In sit amet elit. Maecenas gravida interdum urna. Integer
pretium, arcu vitae imperdiet facilisis, elit tellus tempor nisi,
vel feugiat ante velit sit amet mauris. Vivamus arcu. Integer
pharetra magna ac lacus. Aliquam vitae sapien in nibh vehicula
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 lacus. Proin velit. Nulla semper lobortis mauris. Duis urna
erat, ornare et, imperdiet eu, suscipit sit amet, massa. Nulla nulla
nisi, pellentesque at, egestas quis, fringilla eu, diam.
.PP
Donec semper, sem nec tristique tempus, justo neque commodo nisl,
ut gravida sem tellus suscipit nunc. Aliquam erat volutpat. Ut
tincidunt pretium elit. Aliquam pulvinar. Nulla cursus. Suspendisse
potenti. Etiam condimentum hendrerit felis. Duis iaculis aliquam
enim. Donec dignissim augue vitae orci. Curabitur luctus felis a
metus. Cum sociis natoque penatibus et magnis dis parturient montes,
nascetur ridiculus mus. In varius neque at enim. Suspendisse massa
nulla, viverra in, bibendum vitae, tempor quis, lorem.
.PP

Donec dapibus orci sit amet elit. Maecenas rutrum ultrices lectus.
Aliquam suscipit, lacus a iaculis adipiscing, eros orci pellentesque
nisl, non pharetra dolor urna nec dolor. Integer cursus dolor vel
magna. Integer ultrices feugiat sem. Proin nec nibh. Duis
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lectus arcu rhoncus purus, in fringilla augue elit vel lacus. In
hac habitasse platea dictumst. Aliquam erat volutpat. Fusce iaculis
elit id tellus. Ut accumsan malesuada turpis. Suspendisse potenti.
Vestibulum lacus augue, lobortis mattis, laoreet in, varius at,
nisi. Nunc gravida. Phasellus faucibus. In hac habitasse platea
dictumst. Integer tempor lacus eget lectus. Praesent fringilla augue
fringilla.
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Pellentesque aliquam quam vel dolor. Nunc adipiscing. Sed quam odio,
tempus ac, aliquam molestie, varius ac, tellus. Vestibulum ut nulla
aliquam risus rutrum interdum. Pellentesque lorem. Curabitur sit
amet erat quis risus feugiat viverra. Pellentesque augue justo,
sagittis et, lacinia at, venenatis non, arcu. Nunc nec libero. In
cursus dictum risus. Etiam tristique nisl a nulla. Ut a orci.
.TOC
.\" Local Variables:
.\" mode: nroff
.\" End:
.\" vim: filetype=groff:
-*- text -*-
AUTHOR

Peter Schaffter (peter@schaffter.ca)
6-331 Mona Ave
Vanier (ON) CANADA
K1L 7A3

==========

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grn preprocessor
================

grn, written by Barry Roitblat <barry@rentonww.com> and David
Slattengren <slatteng@Xinet.COM>, was part of the Berkeley
device-independent troff distribution. The files contain no AT&T code
and are in the public domain. Historically, the original package could
be found at <http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z>.

 src/preproc/grn/gprint.h
 src/preproc/grn/hdb.cpp

src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

gxditview output driver
=======================

gxditview is based on the X Window System (Version 11)'s "xditview"
program, and is licensed under the same terms as the rest of X11R5.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap-X11
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

mdoc
macro package
============

mdoc uses the BSD "three-clause" license; that is, it is subject to the
advertising clause rescission.

 tmac/doc.tmac
 tmac/doc-old.tmac
 tmac/mdoc/doc-common
 tmac/mdoc/doc-ditroff
 tmac/mdoc/doc-nroff
 tmac/mdoc/doc-syms
 tmac/groff_mdoc.7.man

me
 macro package
================

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 tmac/e.tmac
 tmac/groff_me.man
 doc/meintro.me
 doc/meintro_fr.me
 doc/meref.me

Hyphenation patterns
====================

groff's hyphenation pattern files are adapted from those used by various
TeX-related projects.

* "tmac/hyphen.cs" is renamed from "czhyphen.tex", and obtained from
 <http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz>.

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* "tmac/hyphen.den" and "tmac/hyphen.det" are renamed from
 "dehyphn-x-2017-03-31.pat" and "dehypht-x-2017-03-31.pat",
 respectively, in the "dehyph-exptl-0.41" package.

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*

"tmac/hyphen.en" is renamed from "hyph-en-us.tex" in the "hyph-utf8"
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.TOC
.\" Local Variables:
.\" mode: nroff
.\" End:
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http://www.aleksey.com/pipermail/xmlsec/2006/007410.html

1.168 netcat-openbsd 1.226-1ubuntu2

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1.169 bsdmainutils 12.1.8

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together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any
problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith
<cpbs@debian.org>. I gathered data for the 1999-2001 calendar files
from various sources on the Internet, and I'd also like to thank Oliver
Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing
much useful data on the various religous calendars. I have edited the
files they provided to fit calendar's requirements, so any errors should
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After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for
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1.170 pyparsing 3.1.1-1

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1.171 modemmanager 1.23.4-0ubuntu2

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1.172 python-distro 1.9.0-1

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1.173 bcache-tools 1.0.8-5build1

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```
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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.174 tcltk-defaults 8.6.14build1

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1.175 libxmlb 0.3.18-1

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Blinker Documentation
=====================

.. image:: _static/blinker-named.png
   :align: center

Blinker provides fast & simple object-to-object and broadcast
signaling for Python objects.

The core of Blinker is quite small but provides powerful features:

- a global registry of named signals
- anonymous signals
- custom name registries
- permanently or temporarily connected receivers
- automatically disconnected receivers via weak referencing
- sending arbitrary data payloads
- collecting return values from signal receivers
- thread safety

Blinker was written by Jason Kirtand and is provided under the MIT License. The library supports Python 3.8 or later; or PyPy3.9 or later.

Decoupling With Named Signals

Named signals are created with :func:`signal`:

.. code-block:: python

```
>>> from blinker import signal
>>> initialized = signal('initialized')
 >>> initialized is signal('initialized')
True
```

Every call to ``signal('name')`` returns the same signal object, allowing unconnected parts of code (different modules, plugins, anything) to all use the same signal without requiring any code sharing or special imports.

Subscribing to Signals

:meth:`Signal.connect` registers a function to be invoked each time the signal is emitted. Connected functions are always passed the object that caused the signal to be emitted.

.. code-block:: python

```
>>> def subscriber(sender):
...     print(f"Got a signal sent by {sender!r}")
...
>>> ready = signal('ready')
>>> ready.connect(subscriber)
<function subscriber at 0x...>
```

Emitting Signals

Code producing events of interest can :meth:`Signal.send`
notifications to all connected receivers.

Below, a simple ``Processor`` class emits a ``ready`` signal when it's
about to process something, and ``complete`` when it is done. It
passes ``self``
 to the :meth:`~Signal.send` method, signifying that
that particular instance was responsible for emitting the signal.

.. code-block:: python

```
>>> class Processor:
...     def __init__(self, name):
...         self.name = name
...
...     def go(self):
...         ready = signal('ready')
...         ready.send(self)
...         print("Processing.")
...         complete = signal('complete')
...         complete.send(self)
...
...     def __repr__(self):
...         return f'<Processor {self.name}>'
...
>>> processor_a = Processor('a')
>>> processor_a.go()
Got a signal sent by <Processor a>
Processing.
```

Notice the ``complete`` signal in ``go()``? No receivers have
connected to ``complete`` yet, and that's a-ok. Calling
:meth:`~Signal.send` on a signal with no receivers will result in no
notifications being sent, and these no-op sends are optimized to be as
inexpensive as possible.

Subscribing to Specific Senders

The default
 connection to a signal invokes the receiver function when
any sender emits it. The :meth:`Signal.connect` function accepts an
optional argument to restrict the subscription to one specific sending
object:

.. code-block:: python

```
>>> def b_subscriber(sender):
...     print("Caught signal from processor_b.")
...     assert sender.name == 'b'
...
>>> processor_b = Processor('b')
>>> ready.connect(b_subscriber, sender=processor_b)
<function b_subscriber at 0x...>
```

This function has been subscribed to ``ready`` but only when sent by
``processor_b``:

.. code-block:: python

```
>>> processor_a.go()
Got a signal sent by <Processor a>
Processing.
>>> processor_b.go()
Got a signal sent by <Processor b>
Caught signal from processor_b.
Processing.
```

Sending and Receiving Data Through Signals

Additional keyword arguments can be passed to :meth:`~Signal.send`.
These will in turn be passed to the connected functions:

.. code-block::
python

```
>>> send_data = signal('send-data')
>>> @send_data.connect
... def receive_data(sender, **kw):
...     print(f"Caught signal from {sender!r}, data {kw!r}")
...     return 'received!'
...
>>> result = send_data.send('anonymous', abc=123)
Caught signal from 'anonymous', data {'abc': 123}
```

The return value of :meth:`~Signal.send` collects the return values of
each connected function as a list of (``receiver function``, ``return
value``) pairs:

.. code-block:: python

```
>>> result
[(<function receive_data at 0x...>, 'received!')]
```

Muting signals

To mute a signal, as may be required when testing, the
:meth:`~Signal.muted` can be used as a context decorator:

.. code-block:: python

```
sig = signal('send-data')
with sig.muted():
    ...
```

Anonymous Signals

Signals need not be named. The :class:`Signal` constructor creates a
unique signal each time it is invoked. For example, an alternative
implementation of the
Processor from above might provide the
processing signals as class attributes:

.. code-block:: python

```
>>> from blinker import Signal
>>> class AltProcessor:
...     on_ready = Signal()
...     on_complete = Signal()
...
...     def __init__(self, name):
...         self.name = name
...
...     def go(self):
...         self.on_ready.send(self)
...         print("Alternate processing.")
...         self.on_complete.send(self)
...
...     def __repr__(self):
...         return f'<AltProcessor {self.name}>'
...
```

``connect`` as a Decorator

You may have noticed the return value of :meth:`~Signal.connect` in
the console output in the sections above. This allows ``connect`` to
be used as a decorator on functions:

.. code-block:: python

```
>>> apc = AltProcessor('c')
>>> @apc.on_complete.connect
... def completed(sender):
...     print f"AltProcessor {sender.name} completed!"
...
>>> apc.go()
Alternate processing.
AltProcessor
c completed!
```

While convenient, this form unfortunately does not allow the
``sender`` or ``weak`` arguments to be customized for the connected
function. For this, :meth:`~Signal.connect_via` can be used:

.. code-block:: python

```
>>> dice_roll = signal('dice_roll')
>>> @dice_roll.connect_via(1)
... @dice_roll.connect_via(3)
... @dice_roll.connect_via(5)
... def odd_subscriber(sender):
...     print(f"Observed dice roll {sender!r}.")
...
>>> result = dice_roll.send(3)
Observed dice roll 3.
```

Optimizing Signal Sending

Signals are optimized to send very quickly, whether receivers are
connected or not. If the keyword data to be sent with a signal is
expensive to compute, it can be more efficient to check to see if any
receivers are connected first by testing the :attr:`~Signal.receivers`
property:

.. code-block:: python

```
>>> bool(signal('ready').receivers)
True
>>> bool(signal('complete').receivers)
```

```
False
>>> bool(AltProcessor.on_complete.receivers)
True
```

Checking for a receiver listening for a particular sender is also
possible:

.. code-block:: python

```
>>> signal('ready').has_receivers_for(processor_a)
True
```

Documenting Signals

Both named and anonymous signals can be passed a ``doc`` argument at
construction to set the pydoc help text for the signal. This
documentation will be picked up by most documentation generators (such
as sphinx) and is nice for documenting any additional data parameters
that will be sent down with the signal.

See the documentation of the :obj:`receiver_connected` built-in signal
for an example.

Async receivers

Receivers can be coroutine functions which can be called and awaited
via the :meth:`~Signal.send_async` method:

.. code-block:: python

```
sig = blinker.Signal()

async def receiver():
    ...

sig.connect(receiver)
await sig.send_async()
```

This however requires that all receivers are awaitable which then
precludes the usage
of :meth:`~Signal.send`. To mix and match the
:meth:`~Signal.send_async` method takes a ``_sync_wrapper`` argument
such as:

.. code-block:: python

  sig = blinker.Signal()

  def receiver():
      ...

  sig.connect(receiver)

  def wrapper(func):

      async def inner(*args, **kwargs):
          func(*args, **kwargs)

      return inner

  await sig.send_async(_sync_wrapper=wrapper)

The equivalent usage for :meth:`~Signal.send` is via the
``_async_wrapper`` argument. This usage is will depend on your event
loop, and in the simple case whereby you aren't running within an
event loop the following example can be used:

.. code-block:: python

  sig = blinker.Signal()

  async def receiver():
      ...

  sig.connect(receiver)

  def wrapper(func):

      def inner(*args, **kwargs):
          asyncio.run(func(*args, **kwargs))

      return inner

  await sig.send(_async_wrapper=wrapper)

Call receivers in order of registration

It
 can be advantageous to call a signal's receivers in the order they
were registered. To achieve this the storage class for receivers should

be changed from an (unordered) set to an ordered set,

.. code-block:: python

  from blinker import Signal
  from ordered_set import OrderedSet

  Signal.set_class = OrderedSet

Please note that ``ordered_set`` is a PyPI package and is not
installed with blinker.

API Documentation

All public API members can (and should) be imported from ``blinker``::

 from blinker import ANY, signal

.. currentmodule:: blinker.base

Basic Signals
+++++++++++++

.. autodata:: blinker.base.ANY

.. autodata:: blinker.base.receiver_connected

.. autoclass:: Signal
  :members:
  :undoc-members:

Named Signals
+++++++++++++

.. function:: signal(name, doc=None)

 Return the :class:`NamedSignal` *name*, creating it if required.

 Repeated calls to this function will return the same signal object.
 Signals are created in a global
 :class:`Namespace`.

.. autoclass:: NamedSignal
  :show-inheritance:
  :members:

```
.. autoclass:: Namespace
  :show-inheritance:
  :members: signal

.. autoclass:: WeakNamespace
  :show-inheritance:
  :members: signal


Changes
=======

.. include:: ../CHANGES.rst


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===========

.. include:: ../LICENSE.rst

Found in path(s):
* /blinker-1-7-0-orig-1-tar-gz/blinker-1.7.0/docs/index.rst
```

1.181 snowball 2.2.0-4build1

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1.182 argon2 0~20190702+dfsg-4build1

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Argon2 reference source code package - reference C implementations

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1.183 libevdev 1.13.1+dfsg-1build1

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1.184 libsort-naturally-perl 1.03-4

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=head1 NAME

Sort::Naturally -- sort lexically, but sort numeral parts numerically

=head1 SYNOPSIS

```
 @them = nsort(qw(
  foo12a foo12z foo13a foo 14 9x foo12 fooa foolio Foolio Foo12a
 ));
 print join(' ', @them), "\n";
```

Prints:

```
 9x 14 foo fooa foolio Foolio foo12 foo12a Foo12a foo12z foo13a
```

(Or "foo12a" + "Foo12a" and "foolio" + "Foolio" and might be
switched, depending on your locale.)

=head1 DESCRIPTION

This module exports two functions, C<nsort> and C<ncmp>; they are used
in implementing my idea of a "natural sorting" algorithm. Under natural
sorting, numeric substrings are compared numerically, and other
word-characters are compared lexically.

This is the way I define natural sorting:

=over

=item *

Non-numeric word-character substrings are sorted lexically,
case-insensitively: "Foo" comes between "fish" and "fowl".

=item *

Numeric substrings are sorted numerically:
"100" comes after "20", not before.

=item
 *

\W substrings (neither words-characters nor digits) are I<ignored>.

=item *

Our use of \w, \d, \D, and \W is locale-sensitive: Sort::Naturally
uses a C<use locale> statement.

=item *

When comparing two strings, where a numeric substring in one
place is I<not> up against a numeric substring in another,
the non-numeric always comes first. This is fudged by
reading pretending that the lack of a number substring has
the value -1, like so:

```
 foo      =>  "foo",  -1
 foobar   =>  "foo",  -1,  "bar"
 foo13    =>  "foo",  13,
 foo13xyz =>  "foo",  13,  "xyz"
```

That's so that "foo" will come before "foo13", which will come
before "foobar".

=item *

The start of a string is exceptional: leading non-\W (non-word,
non-digit)
components are are ignored, and numbers come I<before> letters.

=item *

I define "numeric substring" just as sequences matching m/\d+/ --
scientific notation, commas, decimals, etc., are not seen. If
your data has thousands separators in numbers
("20,000
 Leagues Under The Sea" or "20.000 lieues sous les mers"),
consider stripping them before feeding them to C<nsort> or
C<ncmp>.

=back

=head2 The nsort function

This function takes a list of strings, and returns a copy of the list,
sorted.

This is what most people will want to use:

```
@stuff = nsort(...list...);
```

When nsort needs to compare non-numeric substrings, it
uses Perl's C<lc> function in scope of a <use locale>.
And when nsort needs to lowercase things, it uses Perl's
C<lc> function in scope of a <use locale>. If you want nsort
to use other functions instead, you can specify them in
an arrayref as the first argument to nsort:

```
@stuff = nsort( [
                 \&string_comparator,   # optional
                 \&lowercaser_function  # optional
               ],
               ...list...
             );
```

If you want to specify a string comparator but no lowercaser,
then the options list is C<[\&comparator, "]> or
C<[\&comparator]>. If you want to
specify no string comparator
but a lowercaser, then the options list is
C<[", \&lowercaser]>.

Any comparator you specify is called as
C<$comparator-E<gt>($left, $right)>,
and, like a normal Perl C<cmp> replacement, must return
-1, 0, or 1 depending on whether the left argument is stringwise
less than, equal to, or greater than the right argument.

Any lowercaser function you specify is called as
C<$lowercased = $lowercaser-E<gt>($original)>. The routine
must not modify its C<$_[0]>.

=head2 The ncmp function

Often, when sorting non-string values like this:

```
 @objects_sorted = sort { $a->tag cmp $b->tag } @objects;
```

...or even in a Schwartzian transform, like this:

```
@strings =
  map $_->[0]
  sort { $a->[1] cmp $b->[1] }
  map { [$_, make_a_sort_key_from($_) ]
  @_
;
```

...you wight want something that replaces not C<sort>, but C<cmp>.
That's what Sort::Naturally's C<ncmp> function is for. Call it with
the syntax C<ncmp($left,$right)> instead of C<$left cmp $right>,
but
 otherwise it's a fine replacement:

```
  @objects_sorted = sort { ncmp($a->tag,$b->tag) } @objects;

  @strings =
    map $_->[0]
    sort { ncmp($a->[1], $b->[1]) }
    map { [$_, make_a_sort_key_from($_) ]
    @_
  ;
```

Just as with C<nsort> can take different a string-comparator
and/or lowercaser, you can do the same with C<ncmp>, by passing
an arrayref as the first argument:

```
 ncmp( [
         \&string_comparator,   # optional
         \&lowercaser_function  # optional
       ],
       $left, $right
     )
```

You might get string comparators from L<Sort::ArbBiLex|Sort::ArbBiLex>.

=head1 NOTES

=over

=item *

This module is not a substitute for
L<Sort::Versions|Sort::Versions>! If
you just need proper version sorting, use I<that!>

=item *

If you need something that works I<sort of> like this module's
functions, but not quite the same, consider scouting thru this
module's source code, and adapting what you see. Besides
the functions that actually compile in this
 module, after the POD,
there's several alternate attempts of mine at natural sorting
routines, which are not compiled as part of the module, but which you
might find useful. They should all be I<working> implementations of

slightly different algorithms
(all of them based on Martin Pool's C<nsort>) which I eventually
discarded in favor of my algorithm. If you are having to
naturally-sort I<very large> data sets, and sorting is getting
ridiculously slow, you might consider trying one of those
discarded functions -- I have a feeling they might be faster on
large data sets. Benchmark them on your data and see. (Unless
you I<need> the speed, don't bother. Hint: substitute C<sort>
for C<nsort> in your code, and unless your program speeds up
drastically, it's not the sorting that's slowing things down.
But if it I<is> C<nsort> that's slowing things down, consider
just:

```
    if(@set >= SOME_VERY_BIG_NUMBER) {
      no locale; # vroom vroom
      @sorted = sort(@set);  # feh, good enough
     } elsif(@set >= SOME_BIG_NUMBER) {
      use locale;
      @sorted = sort(@set);  # feh, good enough
    } else {
      # but keep it pretty for normal cases
      @sorted = nsort(@set);
    }
```

=item *

If you do adapt the routines in this module, email me; I'd
just be interested in hearing about it.

=item *

Thanks to the EFNet #perl people for encouraging this module,
especially magister and a-mused.

=back

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=head1 AUTHOR

```
Sean M. Burke C<sburke@cpan.org>

=cut

############   END OF DOCS   ############

##############################################################################
##############################################################################

############
 BEGIN OLD STUFF ############

# We can't have "use integer;", or else (5 <=> 5.1) comes out "0" !

#------------------------------------------------------------------------------
sub nsort {
 my($cmp, $lc);
 return @_ if @_ < 2;   # Just to be CLEVER.

 my($x, $i);  # scratch vars

 # And now, the GREAT BIG Schwartzian transform:

 map
  $_->[0],

 sort {
  # Uses $i as the index variable, $x as the result.
  $x = 0;
  $i = 1;
  DEBUG and print "\nComparing ", map("{$_}", @$a),
              ' : ', map("{$_}", @$b), , "...\n";

  while($i < @$a and $i < @$b) {
    DEBUG and print "  comparing $i: {$a->[$i]} cmp {$b->[$i]} => ",
      $a->[$i] cmp $b->[$i], "\n";
    last if ($x = ($a->[$i] cmp $b->[$i])); # lexicographic
    ++$i;

    DEBUG and print "  comparing $i: {$a->[$i]} <=> {$b->[$i]} => ",
      $a->[$i] <=> $b->[$i], "\n";
    last if ($x = ($a->[$i]
<=> $b->[$i])); # numeric
    ++$i;
  }

  DEBUG and print "{$a->[0]} : {$b->[0]} is ",
    $x || (@$a <=> @$b) || 0
```

```
    ,"\n"
  ;
  $x || (@$a <=> @$b) || ($a->[0] cmp $b->[0]);
    # unless we found a result for $x in the while loop,
    #  use length as a tiebreaker, otherwise use cmp
    #  on the original string as a fallback tiebreaker.
 }

 map {
  my @bit = ($x = defined($_) ? $_ : '');

  if($x =~ m/^[+-]?(?=\d|\.\d)\d*(?:\.\d*)?(?:[Ee](?:[+-]?\d+))?\z/s) {
    # It's entirely purely numeric, so treat it specially:
    push @bit, '', $x;
  } else {
    # Consume the string.
    while(length $x) {
      push @bit, ($x =~ s/^(\D+)//s) ? lc($1) : '';
      push @bit, ($x =~ s/^(\d+)//s) ?    $1  :  0;
    }
  }
  DEBUG and print "$bit[0] => ", map("{$_} ", @bit), "\n";

  # End result: [original bit         , (text, number), (text, number), ...]
  # Minimally:  [0-length original bit,]
  # Examples:
  #    ['10'
  => "   ,  10,             ]
  #    ['fo900'      => 'fo' , 900,             ]
  #    ['foo10'      => 'foo',  10,             ]
  #    ['foo9.pl'    => 'foo',   9,   , '.pl', 0 ]
  #    ['foo32.pl'   => 'foo',  32,   , '.pl', 0 ]
  #    ['foo325.pl'  => 'foo', 325,   , '.pl', 0 ]
  #  Yes, always an ODD number of elements.

  \@bit;
 }
 @_;
}

#--------------------------------------------------------------------------
# Same as before, except without the pure-number trap.

sub nsorts {
 return @_ if @_ < 2;   # Just to be CLEVER.

 my($x, $i);  # scratch vars
```

```
# And now, the GREAT BIG Schwartzian transform:

map
  $_->[0],

sort {
  # Uses $i as the index variable, $x as the result.
  $x = 0;
  $i = 1;
  DEBUG and print "\nComparing ", map("{$_}", @$a),
              ' : ', map("{$_}", @$b), , "...\n";

  while($i < @$a and $i < @$b) {
    DEBUG and print "  comparing $i: {$a->[$i]} cmp {$b->[$i]} => ",
      $a->[$i] cmp $b->[$i], "\n";
     last if ($x = ($a->[$i] cmp $b->[$i])); # lexicographic
    ++$i;

    DEBUG and print "  comparing $i: {$a->[$i]} <=> {$b->[$i]} => ",
      $a->[$i] <=> $b->[$i], "\n";
    last if ($x = ($a->[$i] <=> $b->[$i])); # numeric
    ++$i;
  }

  DEBUG and print "{$a->[0]} : {$b->[0]} is ",
    $x || (@$a <=> @$b) || 0
    ,"\n"
  ;
  $x || (@$a <=> @$b) || ($a->[0] cmp $b->[0]);
    # unless we found a result for $x in the while loop,
    #  use length as a tiebreaker, otherwise use cmp
    #  on the original string as a fallback tiebreaker.
}

map {
  my @bit = ($x = defined($_) ? $_ : '');

  while(length $x) {
    push @bit, ($x =~ s/^(\D+)//s) ? lc($1) : '';
    push @bit, ($x =~ s/^(\d+)//s) ?    $1  :  0;
  }
  DEBUG and print "$bit[0] => ", map("{$_} ", @bit), "\n";

  # End result: [original bit         , (text, number), (text, number), ...]
  # Minimally:  [0-length original bit,]
  # Examples:
  #    ['10'         => '
```

```
  ,  10,             ]
  #    ['fo900'      => 'fo' , 900,             ]
  #    ['foo10'      => 'foo',  10,             ]
  #    ['foo9.pl'    => 'foo',   9,   , '.pl', 0 ]
  #    ['foo32.pl'   => 'foo',  32,   , '.pl', 0 ]
  #    ['foo325.pl'  => 'foo', 325,   , '.pl', 0 ]
  #  Yes, always an ODD number of elements.

  \@bit;
 }
 @_;
}

#--------------------------------------------------------------------------
# Same as before, except for the sort-key-making

sub nsort0 {
 return @_ if @_ < 2;   # Just to be CLEVER.

 my($x, $i);  # scratch vars

 # And now, the GREAT BIG Schwartzian transform:

 map
  $_->[0],

 sort {
  # Uses $i as the index variable, $x as the result.
  $x = 0;
  $i = 1;
  DEBUG and print "\nComparing ", map("{$_}", @$a),
              ' : ', map("{$_}", @$b), , "...\n";

  while($i < @$a and $i < @$b) {
    DEBUG and print "  comparing $i: {$a->[$i]} cmp {$b->[$i]} => ",
      $a->[$i] cmp $b->[$i], "\n";
    last
 if ($x = ($a->[$i] cmp $b->[$i])); # lexicographic
    ++$i;

    DEBUG and print "  comparing $i: {$a->[$i]} <=> {$b->[$i]} => ",
      $a->[$i] <=> $b->[$i], "\n";
    last if ($x = ($a->[$i] <=> $b->[$i])); # numeric
    ++$i;
  }

  DEBUG and print "{$a->[0]} : {$b->[0]} is ",
    $x || (@$a <=> @$b) || 0
```

```
    ,"\n"
  ;
  $x || (@$a <=> @$b) || ($a->[0] cmp $b->[0]);
    # unless we found a result for $x in the while loop,
    #  use length as a tiebreaker, otherwise use cmp
    #  on the original string as a fallback tiebreaker.
}

map {
  my @bit = ($x = defined($_) ? $_ : '');

  if($x =~ m/^[+-]?(?=\d|\.\d)\d*(?:\.\d*)?(?:[Ee](?:[+-]?\d+))?\z/s) {
    # It's entirely purely numeric, so treat it specially:
    push @bit, '', $x;
  } else {
    # Consume the string.
    while(length $x) {
      push @bit, ($x =~ s/^(\D+)//s) ? lc($1) : '';
      # Secret sauce:
      if($x =~ s/^(\d+)//s) {
        if(substr($1,0,1) eq '0' and
$1 != 0) {
          push @bit, $1 / (10 ** length($1));
        } else {
          push @bit, $1;
        }
      } else {
        push @bit, 0;
      }
    }
  }
  DEBUG and print "$bit[0] => ", map("{$_} ", @bit), "\n";

  \@bit;
}
@_;
}

#--------------------------------------------------------------------------
# Like nsort0, but WITHOUT pure number handling, and WITH special treatment
# of pulling off extensions and version numbers.

sub nsortf {
 return @_ if @_ < 2;   # Just to be CLEVER.

 my($x, $i);  # scratch vars

 # And now, the GREAT BIG Schwartzian transform:
```

```
map
  $_->[0],

sort {
  # Uses $i as the index variable, $x as the result.
  $x = 0;
  $i = 3;
  DEBUG and print "\nComparing ", map("{$_}", @$a),
              ' : ', map("{$_}", @$b), , "...\n";

  while($i < @$a and $i < @$b) {
    DEBUG and print "  comparing $i: {$a->[$i]} cmp {$b->[$i]} => ",
      $a->[$i] cmp $b->[$i], "\n";
    last if ($x = ($a->[$i]
cmp $b->[$i])); # lexicographic
    ++$i;

    DEBUG and print "  comparing $i: {$a->[$i]} <=> {$b->[$i]} => ",
      $a->[$i] <=> $b->[$i], "\n";
    last if ($x = ($a->[$i] <=> $b->[$i])); # numeric
    ++$i;
  }

  DEBUG and print "{$a->[0]} : {$b->[0]} is ",
    $x || (@$a <=> @$b) || 0
    ,"\n"
  ;
  $x || (@$a     <=> @$b    ) || ($a->[1] cmp $b->[1])
     || ($a->[2] <=> $b->[2]) || ($a->[0] cmp $b->[0]);
    # unless we found a result for $x in the while loop,
    #  use length as a tiebreaker, otherwise use the
    #  lc'd extension, otherwise the verison, otherwise use
    #  the original string as a fallback tiebreaker.
}

map {
  my @bit = ( ($x = defined($_) ? $_ : ''), ',0 );

  {
    # Consume the string.

    # First, pull off any VAX-style version
    $bit[2] = $1 if $x =~ s/;(\d+)$//;

    # Then pull off any apparent extension
    if( $x !~ m/^\.+$/s and     # don't mangle ".", "..", or "..."
        $x =~
```

```
s/(\.[^\.\;]*)$//sg
        # We could try to avoid catching all-digit extensions,
        #  but I think that's getting /too/ clever.
    ) {
      $i = $1;
      if($x =~ m<[^\\\://]$>s) {
        # We didn't take the whole basename.
        $bit[1] = lc $i;
        DEBUG and print "Consuming extension \"$1\"\n";
      } else {
        # We DID take the whole basename.  Fix it.
        $x = $1;  # Repair it.
      }
    }

    push @bit, '', -1   if $x =~ m/^\./s;
     # A hack to make .-initial filenames sort first, regardless of locale.
     # And -1 is always a sort-firster, since in the code below, there's
     # no allowance for filenames containing negative numbers: -1.dat
     # will be read as string '-' followed by number 1.

    while(length $x) {
      push @bit, ($x =~ s/^(\D+)//s) ? lc($1) : '';
      # Secret sauce:
      if($x =~ s/^(\d+)//s) {
        if(substr($1,0,1) eq '0' and $1 != 0) {
          push @bit, $1 / (10
** length($1));
        } else {
          push @bit, $1;
        }
      } else {
        push @bit, 0;
      }
    }
  }

  DEBUG and print "$bit[0] => ", map("{$_} ", @bit), "\n";

  \@bit;
}
@_;
}

# yowza yowza yowza.
```

Found in path(s):
* /libsort-naturally-perl-1-03-orig-1-tar-gz/Sort-Naturally-1.03/lib/Sort/Naturally.pm

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README for Sort::Naturally
Time-stamp: "2001-05-25 21:17:33 MDT"

Sort::Naturally

[extracted from the Pod...]

NAME
Sort::Naturally -- sort lexically, but sort numeral parts numerically

SYNOPSIS

```
@them = nsort(qw(
 foo12a foo12z foo13a foo 14 9x foo12 fooa foolio Foolio Foo12a
));
print join(' ', @them), "\n";
```

Prints:

9x 14 foo fooa foolio Foolio foo12 foo12a Foo12a foo12z foo13a

(Or "foo12a" + "Foo12a" and "foolio" + "Foolio" and might be switched, depending on your locale.)

DESCRIPTION
This module exports two functions, nsort and ncmp; they are used in implementing my idea of a "natural sorting" algorithm. Under natural sorting, numeric substrings are compared numerically, and other word-characters are compared lexically.

This is the way I define natural sorting:

o
Non-numeric word-character substrings are sorted lexically, case-insensitively: "Foo" comes between "fish" and "fowl".

o Numeric substrings are sorted numerically: "100" comes after "20", not before.

o \W substrings (neither words-characters nor digits) are ignored.

o Our use of \w, \d, \D, and \W is locale-sensitive: Sort::Naturally uses a use locale statement.

- When comparing two strings, where a numeric substring in one place is not up against a numeric substring in another, the non-numeric always comes first. This is fudged by reading pretending that the lack of a number substring has the value -1, like so:

```
foo      =>  "foo",  -1
foobar   =>  "foo",  -1,  "bar"
foo13    =>  "foo",  13,
foo13xyz  =>  "foo",  13,  "xyz"
```

  That's so that "foo" will come before "foo13", which will come before "foobar".

- The start of a string is exceptional: leading non-\W (non-word, non-digit) components are are ignored, and numbers come before letters.

- I define "numeric substring" just as sequences matching m/\d+/ -- scientific notation, commas, decimals, etc., are not seen. If your data has thousands separators in numbers ("20,000 Leagues Under The Sea" or "20.000 lieues sous les mers"), consider stripping them before feeding them to nsort or ncmp.

[end Pod extract]

INSTALLATION

You install Sort::Naturally, as you would install any perl module library, by running these commands:

```
perl Makefile.PL
make
make test
make install
```

If you want to install a private copy of Sort::Naturally in your home directory, then you should try to produce the initial Makefile with something like this command:

```
perl Makefile.PL LIB=~/perl
```

See perldoc perlmodinstall for more information on installing

modules.

DOCUMENTATION

POD-format documentation is included in Naturally.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

SUPPORT

Questions, bug reports, useful code bits, and suggestions for Sort::Naturally should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of Sort::Naturally is available from the Comprehensive Perl Archive Network (CPAN). Visit <http://www.perl.com/CPAN/> to find a CPAN site near you.

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---
abstract: 'sort lexically, but sort numeral parts numerically'
author:
 - 'Sean M. Burke <sburke@cpan.org>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Sort-Naturally
no_index:
 directory:
  - t
  - inc
requires:
 perl: 5
resources:
 repository: https://github.com/bingos/sort-naturally
version: 1.03

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* /libsort-naturally-perl-1-03-orig-1-tar-gz/Sort-Naturally-1.03/META.yml

1.185 mdurl 0.1.2-1

1.185.1 Available under license :

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.parse() is based on Joyent's node.js `url` code:

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1.186 xml-core 0.19

1.186.1 Available under license :

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==========
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==========

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Examples of behavior that contributes to creating a positive environment
include:

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

Examples of unacceptable behavior by participants include:

* The use of sexualized
 language or imagery and unwelcome sexual attention or
advances
* 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

Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable
behavior and are expected to take appropriate and fair corrective action in
response to any instances of unacceptable behavior.

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 representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team at report@palletsprojects.com. All complaints will be reviewed and investigated and will result in a response that is deemed necessary and appropriate to the circumstances. The project team is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

Project maintainers who do not follow or enforce the Code of Conduct in good faith may face temporary or
 permanent repercussions as determined by other
members of the project's leadership.

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Found in path(s):
* /python-click-8-1-6-orig-1-tar-gz/click-8.1.6/CODE_OF_CONDUCT.md

1.189 libestr 0.1.11-1build1

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1.190 libintl-perl 1.33-1build3

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== unifont16 ==

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

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1.199 libterm-readkey-perl 2.38-2build4

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Term::ReadKey 2.36 - Change terminal modes, and perform non-blocking reads.

Copyright (C) 1994-1999 Kenneth Albanowski.
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This module, ReadKey, provides ioctl control for terminals and Win32
consoles
so the input modes can be changed (thus allowing reads of a single
character at a time), and also provides non-blocking reads of stdin, as well
as several other terminal related features, including retrieval/modification
of the screen size, and retrieval/modification of the control characters.
Installation requires MakeMaker 3.5 or higher (MakeMaker 3.7 is included
with perl 5.001, so now is a good time to upgrade if you haven't already.)

To install, unpack somewhere, type "perl Makefile.PL", and then "make test".
If the compilation and the tests are successful, then change to root and run
"make install".

As of 2.17 the interactive test has been removed as the default for the
convenience of automated installers, CPAN-Testers and so on. The non
interactive tests whilst confirming that the module has built correctly
and has a good chance of working correctly cannot determine whether the
effect as observed on the screen is correct so you might want to run:

perl -Mblib

example/test.pl interactive

before you run 'make install'.

Also from 2.17 this module has to provide its own support for compilers
that can't take function prototypes as with Perl 5.8.0 this last vestige
of support for non-ANSI compilers will disappear. The requirement for
an ANSI C compiler has been present since Perl 5.005 so it is likely that
at some point in the future this module will follow that requirement too.
If you have any difficulties with older Perl's please contact the maintainer.

The module has support for Win32 since version 2.10. Version 2.17 has been
tested with ActivePerl build 623 and Visual Studio 6 and found to work
as expected, but do not be surprised if it fails with another compiler
or distribution. There are some limitations, with the ReadLine call
being unavailable, and ReadKey possibly generating bad results if you
are reading from multiple consoles, and key repeat is used. For Win32
users without a C compiler there is a precompiled version of this module
available
as a package for ActivePerl, it is probably a few versions
behind the latest release but has been reported to work well.

VERY IMPORTANT: In 2.00, the ReadKey/ReadLine arguments changed. Now, if
you want a call that is non-blocking and returns immediately if no
character is waiting, please call it with -1, instead of 1. Positive
arguments now indicate a timeout, so 1 would wait a second before timing
out.

As older versions will accept -1, it is reccomended to change all code
that uses ReadMode.

The terminal mode function is controlled by the "ReadMode" function, which
takes a single numeric argument, and an optional filehandle. This argument
should be one of the following:

0: (Reset) Restore original settings.

1: (Cooked) Change to what is commonly the default mode, echo on,
buffered, signals enabled, Xon/Xoff possibly enabled, and 8-bit mode
possibly disabled.

2: (Cooked-Invisible) Same as 1, just with echo off. Nice for reading
passwords.

3:
(CBreak) Echo off, unbuffered, signals enabled, Xon/Xoff possibly
enabled, and 8-bit mode possibly enabled.

4: (Raw) Echo off, unbuffered, signals disabled, Xon/Xoff disabled,
and 8-bit mode possibly disabled.

5: (Really-Raw) Echo off, unbuffered, signals disabled, Xon/Xoff
disabled, 8-bit mode enabled if parity permits, and CR to CR/LF
translation turned off.

If you just need to read a key at a time, then modes 3 or 4 are probably
sufficient. Mode 4 is a tad more flexible, but needs a bit more work to
control. If you use ReadMode 3, then you should install a SIGINT or END
handler to reset the terminal (via ReadMode 0) if the user aborts the
program via ^C. (For any mode, an END handler consisting of "ReadMode 0" is
actually a good idea.)

Non-blocking support is provided via the ReadKey and ReadLine functions. If
they are passed no argument, or an argument of zero, they will act like a
normal getc(STDIN) or scalar(<STDIN>). If
they are passed a negative
argument, then they will immediatly return undef if no input is present. If
passed a positive argument, then they will wait until that time in seconds
has passed before returning undef. In most situations, you will probably
want to use "ReadKey -1".

Note that a non-blocking ReadLine probably won't do what you expect,
although it is perfectly predictable, and that the ReadMode will have to be
1 or 0 for it to make sense at all.

A routine is also provided to get the current terminal size,
"GetTerminalSize". This will either return a four value array containing the
width and height of the screen in characters and then in pixels, or nothing
(if the OS can't return that info). SetTerminalSize allows the stored
settings to be modified. Note that this does _not_ change the physical size
of the screen, it will only change the size reported by GetTerminalSize, and
other programs that check the terminal size in the same manner.

GetControlChars returns a hash containing
all of the valid control
characters, such as ("INTERRUPT" => "\x3", etc.). SetControlChars takes an
array (or a hash) as a parameter that should consist of similar name/value
pairs and will modify the control character settings.

Note that it is entirely possible that there are portability problems with
the routines in ReadKey.xs. If you find any problems, including compilation
failures, or control characters not supported by Set/GetControlChars,
please tell me about them, by mailing the maintainer at jns@gellyfish.co.uk,
or lastly contacting perl5-porters@perl.org. Any problems
will get fixed if at all possible, but that's not going to happen if I don't

know about them.

The code is available at https://github.com/jonathanstowe/TermReadKey so
as ever patches are kindly welcomed, especially for platforms such as
Windows that I am unable to test on.

Oh, you may also be interested in the Configure.pm module. It provides tools
to make porting stuff easier -- calling the compiler,
 finding headers, etc.
It contains documentation inside it, and you are welcome to use it in your
own modules. If you make use of it, I'd be grateful for a message sent to
the above address.

Found in path(s):
* /libterm-readkey-perl-2-38-orig-1-tar-gz/TermReadKey-2.38/README
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---
abstract: 'Change terminal modes, and perform non-blocking reads.'
author:
 - 'Kenneth Albanowski'
 - 'Jonathan Stowe'
build_requires:
 ExtUtils::MakeMaker: '6.58'
configure_requires:
 ExtUtils::MakeMaker: '6.58'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: TermReadKey
no_index:
 file:
   - Configure.pm
 package:
   - Configure
provides:
 Term::ReadKey:
   file: ReadKey.pm.PL
   version: '2.38'
resources:
 repository: https://github.com/jonathanstowe/TermReadKey.git
version: '2.38'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):

* /libterm-readkey-perl-2-38-orig-1-tar-gz/TermReadKey-2.38/META.yml
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```
#! perl

package Term::ReadKey;

# This also needs to be adjusted in the generated code below
# and in the Makefile.PL
use vars qw($VERSION);

$VERSION = '2.38';

use Config;
use File::Basename qw(&basename &dirname);
use File::Spec;
use Cwd;

# List explicitly here the variables you want Configure to
# generate.  Metaconfig only looks for shell variables, so you
# have to mention them as if they were shell variables, not
# %Config entries.  Thus you write
#  $startperl
# to ensure Configure will look for $Config{startperl}.
# Wanted:  $archlibexp

# This forces PL files to create target in same directory as PL file.
# This is so that make depend always knows where to find PL derivatives.
my $origdir = cwd;
my $dir = dirname($0);
chdir $dir;
my $file = 'ReadKey.pm';

open OUT, ">", $file or die "Can't create $file: $!";

print "Creating $file\n";

print OUT <<'!FIRSTPART';
# -*- buffer-read-only: t -*-
#
# This file
 is auto-generated. ***ANY*** changes here will be lost
#
package Term::ReadKey;

use strict;
use warnings;
```

=head1 NAME

Term::ReadKey - A perl module for simple terminal control

=head1 SYNOPSIS

```
  use Term::ReadKey;
  ReadMode 4; # Turn off controls keys
  while (not defined ($key = ReadKey(-1))) {
     # No key yet
  }
  print "Get key $key\n";
  ReadMode 0; # Reset tty mode before exiting
```

=head1 DESCRIPTION

Term::ReadKey is a compiled perl module dedicated to providing simple
control over terminal driver modes (cbreak, raw, cooked, etc.,) support for
non-blocking reads, if the architecture allows, and some generalized handy
functions for working with terminals. One of the main goals is to have the
functions as portable as possible, so you can just plug in "use
Term::ReadKey" on any architecture and have a good likelihood of it working.

Version 2.30.01:
Added handling of arrows, page up/down, home/end, insert/delete keys
under Win32. These keys emit xterm-compatible
 sequences.
Works with Term::ReadLine::Perl.

=over 4

=item ReadMode MODE [, Filehandle]

Takes an integer argument or a string synonym (case insensitive), which
can currently be one of the following values:

```
  INT   SYNONYM    DESCRIPTION

  0    'restore'   Restore original settings.

  1    'normal'    Change to what is commonly the default mode,
                   echo on, buffered, signals enabled, Xon/Xoff
                   possibly enabled, and 8-bit mode possibly disabled.

  2    'noecho'    Same as 1, just with echo off. Nice for
                   reading passwords.

  3    'cbreak'    Echo off, unbuffered, signals enabled, Xon/Xoff
```

possibly enabled, and 8-bit mode possibly enabled.

4 'raw' Echo off, unbuffered, signals disabled, Xon/Xoff
disabled, and 8-bit mode possibly disabled.

5 'ultra-raw' Echo off, unbuffered, signals disabled, Xon/Xoff
disabled, 8-bit mode enabled
if parity permits,
and CR to CR/LF translation turned off.

These functions are automatically applied to the STDIN handle if no other handle is supplied. Modes 0 and 5 have some special properties worth mentioning: not only will mode 0 restore original settings, but it cause the next ReadMode call to save a new set of default settings. Mode 5 is similar to mode 4, except no CR/LF translation is performed, and if possible, parity will be disabled (only if not being used by the terminal, however. It is no different from mode 4 under Windows.)

If you just need to read a key at a time, then modes 3 or 4 are probably sufficient. Mode 4 is a tad more flexible, but needs a bit more work to control. If you use ReadMode 3, then you should install a SIGINT or END handler to reset the terminal (via ReadMode 0) if the user aborts the program via C<^C>. (For any mode, an END handler consisting of "ReadMode 0" is actually a good idea.)

If you are executing another program
that may be changing the terminal mode,
you will either want to say

```
ReadMode 1;             # same as ReadMode 'normal'
system('someprogram');
ReadMode 1;
```

which resets the settings after the program has run, or:

```
$somemode=1;
ReadMode 0;             # same as ReadMode 'restore'
system('someprogram');
ReadMode 1;
```

which records any changes the program may have made, before resetting the mode.

=item ReadKey MODE [, Filehandle]

Takes an integer argument, which can currently be one of the following values:

0 Perform a normal read using getc
-1 Perform a non-blocked read
>0 Perform a timed read

If the filehandle is not supplied, it will default to STDIN. If there is nothing waiting in the buffer during a non-blocked read, then undef will be returned. In most situations, you will probably want to use C<ReadKey -1>.

I<NOTE> that if the OS does not provide any known mechanism for non-blocking reads, then a C<ReadKey -1> can die with a fatal error. This will hopefully not be common.

If MODE is greater then zero, then ReadKey will use it as a timeout value in seconds (fractional seconds are allowed), and won't return C<undef> until that time expires.

I<NOTE>, again, that some OS's may not support this timeout behaviour.

If MODE is less then zero, then this is treated as a timeout of zero, and thus will return immediately if no character is waiting. A MODE of zero, however, will act like a normal getc.

I<NOTE>, there are currently some limitations with this call under Windows. It may be possible that non-blocking reads will fail when reading repeating keys from more then one console.

=item ReadLine MODE [, Filehandle]

Takes an integer argument, which can currently be one of the following values:

0 Perform a normal read using scalar(<FileHandle>)
-1 Perform a non-blocked read
>0 Perform a timed read

If there is nothing waiting in the buffer during a non-blocked read, then undef will be returned.

I<NOTE>, that if the OS does not provide any known mechanism for non-blocking reads, then a C<ReadLine 1> can die with a fatal error. This will hopefully not be common.

I<NOTE> that a non-blocking test is only performed for the first character in the line, not the entire line. This call will probably B<not> do what

you assume, especially with C<ReadMode> MODE values higher then 1. For example, pressing Space and then Backspace would appear to leave you where you started, but any timeouts would now be suspended.

B<This call is currently not available under Windows>.

=item GetTerminalSize [Filehandle]

Returns either an empty array if this operation is unsupported, or a four element array containing: the width of the terminal in characters, the height of the terminal in character, the width in pixels, and the height in pixels. (The pixel size will only be valid in some environments.)

I<NOTE>, under Windows, this function must be called with an B<output> filehandle, such as C<STDOUT>,
or a handle opened to C<CONOUT$>.

=item SetTerminalSize WIDTH,HEIGHT,XPIX,YPIX [, Filehandle]

Return -1 on failure, 0 otherwise.

I<NOTE> that this terminal size is only for B<informative> value, and changing the size via this mechanism will B<not> change the size of the screen. For example, XTerm uses a call like this when it resizes the screen. If any of the new measurements vary from the old, the OS will probably send a SIGWINCH signal to anything reading that tty or pty.

B<This call does not work under Windows>.

=item GetSpeed [, Filehandle]

Returns either an empty array if the operation is unsupported, or a two value array containing the terminal in and out speeds, in B<decimal>. E.g, an in speed of 9600 baud and an out speed of 4800 baud would be returned as (9600,4800). Note that currently the in and out speeds will always be identical in some OS's.

B<No speeds are reported under Windows>.

=item GetControlChars [, Filehandle]

Returns an array containing key/value pairs
suitable for a hash. The pairs
consist of a key, the name of the control character/signal, and the value of that character, as a single character.

B<This call does nothing under Windows>.

Each key will be an entry from the following list:

```
DISCARD
DSUSPEND
EOF
EOL
EOL2
ERASE
ERASEWORD
INTERRUPT
KILL
MIN
QUIT
QUOTENEXT
REPRINT
START
STATUS
STOP
SUSPEND
SWITCH
TIME
```

Thus, the following will always return the current interrupt character, regardless of platform.

```
%keys = GetControlChars;
$int = $keys{INTERRUPT};
```

=item SetControlChars [, Filehandle]

Takes an array containing key/value pairs, as a hash will produce. The pairs should consist of a key that is the name of a legal control character/signal, and the value should be either a single character, or a number in the range 0-255. SetControlChars will die with a runtime error if an invalid character name is passed or there is an error changing the settings. The list of valid names is easily available via

```
%cchars
= GetControlChars();
@cnames = keys %cchars;
```

B<This call does nothing under Windows>.

=back

=head1 AUTHOR

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Currently maintained by Jonathan Stowe <jns@gellyfish.co.uk>

=head1 SUPPORT

The code is maintained at

    https://github.com/jonathanstowe/TermReadKey

Please feel free to fork and suggest patches.

=head1 LICENSE

Prior to the 2.31 release the license statement was:

Copyright (C) 1994-1999 Kenneth Albanowski.
        2001-2005 Jonathan Stowe and others

        Unlimited distribution and/or modification is allowed as long as this
        copyright notice remains intact.

And was only stated in the README file.

Because I believe the original author's intent was to be more open than the
other commonly used licenses I would like to leave that in place. However if
you or your lawyers require something with some more words you can optionally
choose to license this under the standard Perl license:

    This
 module is free software; you can redistribute it and/or modify it
    under the terms of the Artistic License. For details, see the full
    text of the license in the file "Artistic" that should have been provided
    with the version of perl you are using.

    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.

=cut

use vars qw($VERSION);

$VERSION = '2.38';

require Exporter;
require DynaLoader;

```
use vars qw(@ISA @EXPORT_OK @EXPORT);

@ISA = qw(Exporter DynaLoader);

# Items to export into callers namespace by default
# (move infrequently used names to @EXPORT_OK below)

@EXPORT = qw(
 ReadKey
 ReadMode
 ReadLine
 GetTerminalSize
 SetTerminalSize
 GetSpeed
 GetControlChars
 SetControlChars
);

@EXPORT_OK = qw();

bootstrap Term::ReadKey;

# Should we use LINES and COLUMNS to try and get the terminal size?
# Change this to zero
 if you have systems where these are commonly
# set to erroneous values. (But if either are near zero, they won't be
# used anyhow.)

use vars qw($UseEnv $CurrentMode %modes);

$UseEnv = 1;

$CurrentMode = 0;

%modes = (                      # lowercase is canonical
  original    => 0,
  restore     => 0,
  normal      => 1,
  noecho      => 2,
  cbreak      => 3,
  raw         => 4,
  'ultra-raw' => 5
);

# reduce Carp memory footprint, only load when needed
sub croak { require Carp; goto &Carp::croak; }
sub carp  { require Carp; goto &Carp::carp; }
```

```
sub ReadMode
{
  my $mode = $modes{ lc $_[0] };  # lowercase is canonical
  my $fh = normalizehandle( ( @_ > 1 ? $_[1] : \*STDIN ) );

  if ( defined($mode) )    { $CurrentMode = $mode }
  elsif ( $_[0] =~ /^\d/ ) { $CurrentMode = $_[0] }
  else                     { croak("Unknown terminal mode `$_[0]'"); }

  SetReadMode($CurrentMode, $fh);
}

sub normalizehandle
{
  my ($file) = @_; # allows fake signature
 optimization

  no strict;
  # print "Handle = $file\n";
  if ( ref($file) ) { return $file; }    # Reference is fine

  # if ($file =~ /^\*/) { return $file; } # Type glob is good
  if ( ref( \$file ) eq 'GLOB' ) { return $file; }    # Glob is good

  # print "Caller = ",(caller(1))[0],"\n";
  return \*{ ( ( caller(1) )[0] ) . "::$file" };
}

sub GetTerminalSize
{
  my $file = normalizehandle( ( @_ > 0 ? $_[0] : \*STDOUT ) );

  my (@results, @fail);

  if ( &termsizeoptions() & 1 )                    # VIO
  {
     @results = GetTermSizeVIO($file);
     push( @fail, "VIOGetMode call" );
  }
  elsif ( &termsizeoptions() & 2 )                 # GWINSZ
  {
     @results = GetTermSizeGWINSZ($file);
     push( @fail, "TIOCGWINSZ ioctl" );
  }
  elsif ( &termsizeoptions() & 4 )                 # GSIZE
  {
     @results = GetTermSizeGSIZE($file);
```

```
    push( @fail, "TIOCGSIZE ioctl" );
  }
  elsif ( &termsizeoptions() & 8
)                 # WIN32
  {
    @results = GetTermSizeWin32($file);
    push( @fail, "Win32 GetConsoleScreenBufferInfo call" );
  }
  else
  {
    @results = ();
  }

  if ( @results < 4 and $UseEnv )
  {
    my ($C) = defined( $ENV{COLUMNS} ) ? $ENV{COLUMNS} : 0;
    my ($L) = defined( $ENV{LINES} )   ? $ENV{LINES}   : 0;
    if ( ( $C >= 2 ) and ( $L >= 2 ) )
    {
      @results = ( $C + 0, $L + 0, 0, 0 );
    }
    push( @fail, "COLUMNS and LINES environment variables" );
  }

  if ( @results < 4 && $^O ne 'MSWin32')
  {
    my ($prog) = "resize";

    # Workaround for Solaris path silliness
    if ( -f "/usr/openwin/bin/resize" ) {
      $prog = "/usr/openwin/bin/resize";
    }

    my ($resize) = scalar(`$prog 2>/dev/null`);
    if (defined $resize
      and (  $resize =~ /COLUMNS\s*=\s*(\d+)/
          or $resize =~ /setenv\s+COLUMNS\s+'?(\d+)/ )
       )
    {
       $results[0] = $1;
      if (   $resize =~ /LINES\s*=\s*(\d+)/
          or $resize =~ /setenv\s+LINES\s+'?(\d+)/ )
      {
        $results[1] = $1;
        @results[ 2, 3 ] = ( 0, 0 );
      }
      else
      {
```

```
            @results = ();
          }
      }
      else
      {
          @results = ();
      }
      push( @fail, "resize program" );
  }

  if ( @results < 4 && $^O ne 'MSWin32' )
  {
      my ($prog) = "stty size";

      my ($stty) = scalar(`$prog 2>/dev/null`);
      if (defined $stty
          and (  $stty =~ /(\d+) (\d+)/ )
         )
      {
          $results[0] = $2;
          $results[1] = $1;
          @results[ 2, 3 ] = ( 0, 0 );
      }
      else
      {
          @results = ();
      }
      push( @fail, "stty program" );
  }

  if ( @results != 4 )
  {
      carp("Unable to get Terminal Size."
           . join( "", map( " The $_ didn't
 work.", @fail ) ));
 return undef;
  }

  @results;
}

!FIRSTPART

close OUT;
# preload the XS module needed for the blockoptions() expansions below
# does not work with miniperl
package Term::ReadKey;
require DynaLoader;
```

```
our @ISA = qw(DynaLoader);

print "Bootstrapping the XS for blockoptions: ";
bootstrap Term::ReadKey or die;
print blockoptions()."\n";

open OUT, ">>", $file or die "Can't append to $file: $!";
print OUT "# blockoptions: \n";
if ( &blockoptions() & 1 )    # Use nodelay
{
  print OUT "#nodelay\n";
  if ( &blockoptions() & 2 )    #poll
  {
     print OUT <<'!NO!SUBS!';
# poll
sub ReadKey {
 my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
 if (defined $_[0] && $_[0] > 0) {
    if ($_[0]) {
       return undef if &pollfile($File,$_[0]) == 0;
    }
 }
 if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1); }
 my $value = getc $File;
 if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0); }
 $value;
}
sub ReadLine {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if (defined $_[0] && $_[0] > 0) {
     if ($_[0]) {
        return undef if &pollfile($File,$_[0]) == 0;
     }
  }
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1) };
  my $value = scalar(<$File>);
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0) };
  $value;
}
!NO!SUBS!

  }
  elsif ( &blockoptions() & 4 )    #select
  {
     print OUT <<'!NO!SUBS!';
#select
sub ReadKey {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
```

```
  if (defined $_[0] && $_[0] > 0) {
    if ($_[0]) { return undef if &selectfile($File,$_[0]) == 0 }
  }
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1); }
  my $value = getc $File;
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0); }
  $value;
}
sub ReadLine {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  if (defined $_[0] && $_[0] > 0) {
    if ($_[0]) { return undef if &selectfile($File,$_[0]) == 0 }
  }
  if (defined $_[0] && $_[0]
 < 0) { &setnodelay($File,1) };
  my $value = scalar(<$File>);
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0) };
  $value;
}
!NO!SUBS!

  }
  else
  {    #nothing
    print OUT <<'!NO!SUBS!';
sub ReadKey {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  if (defined $_[0] && $_[0] > 0) {
   # Nothing better seems to exist, so I just use time-of-day
   # to timeout the read. This isn't very exact, though.
   $starttime = time;
   $endtime = $starttime + $_[0];
    &setnodelay($File,1);
    my $value;
   while (time < $endtime) { # This won't catch wraparound!
        $value = getc $File;
        last if defined($value);
   }
    &setnodelay($File,0);
    return $value;
  }
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1); }
  my $value = getc $File;
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0); }
  $value;
}
sub ReadLine {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
```

```
  if
 (defined $_[0] && $_[0] > 0) {
   # Nothing better seems to exist, so I just use time-of-day
   # to timeout the read. This isn't very exact, though.
   $starttime = time;
   $endtime = $starttime + $_[0];
     &setnodelay($File,1);
     my $value;
   while (time < $endtime) { # This won't catch wraparound!
         $value = scalar(<$File>);
         last if defined($value);
   }
     &setnodelay($File,0);
     return $value;
  }
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,1) };
  my $value = scalar(<$File>);
  if (defined $_[0] && $_[0] < 0) { &setnodelay($File,0) };
  $value;
}
!NO!SUBS!

  }
}
else {
  print OUT "#no nodelay\n";

  if ( &blockoptions() & 2 )    # Use poll
  {
     print OUT <<'!NO!SUBS!';
#poll
sub ReadKey {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  if (defined $_[0] && $_[0] != 0) {
     return undef if &pollfile($File,$_[0]) == 0
  }
  getc $File;
}
sub ReadLine {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
   if (defined $_[0] && $_[0] != 0 ) {
     return undef if &pollfile($File,$_[0]) == 0;
  }
  scalar(<$File>);
}
!NO!SUBS!

  }
```

```
  elsif ( &blockoptions() & 4 )    # Use select
  {
     print OUT <<'!NO!SUBS!';
#select
sub ReadKey {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  if (defined $_[0] && $_[0] != 0) {
     return undef if &selectfile($File,$_[0]) == 0
  }
  getc $File;
}
sub ReadLine {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  if (defined $_[0] && $_[0] != 0) {
     return undef if &selectfile($File,$_[0]) == 0;
  }
  scalar(<$File>);
}
!NO!SUBS!

  }
  elsif ( &blockoptions() & 8 )    # Use Win32
  {
     print OUT <<'!NO!SUBS!';
#Win32
sub ReadKey {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  if ($_[0] || $CurrentMode >= 3) {
     Win32PeekChar($File, $_[0]);
  } else {
 getc $File;
  }
  #if ($_[0]!=0) {return undef if !Win32PeekChar($File, $_[0])};
   #getc $File;
}
sub ReadLine {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  #if ($_[0]!=0) {return undef if !Win32PeekChar($File, $_[0])};
  #scalar(<$File>);
  if ($_[0]) {
     croak("Non-blocking ReadLine is not supported on this architecture")
  }
  scalar(<$File>);
}
!NO!SUBS!

  }
  else
```

```
  {
    print OUT <<'!NO!SUBS!';
sub ReadKey {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  if ($_[0]) {
    croak("Non-blocking ReadKey is not supported on this architecture")
  }
  getc $File;
}
sub ReadLine {
  my $File = normalizehandle((@_>1?$_[1]:\*STDIN));
  if ($_[0]) {
   croak("Non-blocking ReadLine is not supported on this architecture")
  }
  scalar(<$File>);
}
!NO!SUBS!

  }
}

print OUT <<'EOF';
1;
# ex: set ro:
EOF

close OUT;
if (-s $file < 1000) {
  warn "WARNING: $file probably too small";
} else {
  print "Done\n";
}
```

Found in path(s):
* /libterm-readkey-perl-2-38-orig-1-tar-gz/TermReadKey-2.38/ReadKey.pm.PL
No license file was found, but licenses were detected in source scan.

```
/*
----------------------------------------------------------------------

  ppport.h -- Perl/Pollution/Portability Version 3.21

  Automatically created by Devel::PPPort running under perl 5.014004.

  Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
  includes in parts/inc/ instead.

  Use 'perldoc ppport.h' to view the documentation below.
```

```
------------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.21

=head1 SYNOPSIS

 perl ppport.h [options] [source files]

 Searches current directory for files if no [source files] are given

 --help                  show short help

 --version               show version

 --patch=file            write one patch file with changes
 --copy=suffix           write changed copies with suffix
 --diff=program          use diff program and options

 --compat-version=version
    provide compatibility with Perl version
 --cplusplus             accept C++ comments

 --quiet                 don't output anything except fatal errors
 --nodiag                don't show diagnostics
 --nohints               don't show hints
 --nochanges             don't suggest changes
 --nofilter              don't filter input files

 --strip                 strip all script and doc functionality from
                         ppport.h

 --list-provided         list provided API
 --list-unsupported      list unsupported API
 --api-info=name         show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS
```

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given,
a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagially add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003.
You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.

Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This
 reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by

F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across
 differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

  perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or
 variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global

variants.

For a C<static> function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

Function / Variable	Static Request	Global Request
PL_parser	NEED_PL_parser	NEED_PL_parser_GLOBAL
PL_signals	NEED_PL_signals	NEED_PL_signals_GLOBAL
eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL
grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL
grok_numeric_radix()	NEED_grok_numeric_radix	NEED_grok_numeric_radix_GLOBAL
grok_oct()	NEED_grok_oct	NEED_grok_oct_GLOBAL
load_module()	NEED_load_module	NEED_load_module_GLOBAL
my_snprintf()	NEED_my_snprintf	NEED_my_snprintf_GLOBAL
my_sprintf()	NEED_my_sprintf	NEED_my_sprintf_GLOBAL
my_strlcat()	NEED_my_strlcat	NEED_my_strlcat_GLOBAL
my_strlcpy()	NEED_my_strlcpy	NEED_my_strlcpy_GLOBAL
newCONSTSUB()	NEED_newCONSTSUB	NEED_newCONSTSUB_GLOBAL
newRV_noinc()	NEED_newRV_noinc	NEED_newRV_noinc_GLOBAL
newSV_type()	NEED_newSV_type	NEED_newSV_type_GLOBAL
newSVpvn_flags()	NEED_newSVpvn_flags	NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()	NEED_newSVpvn_share	NEED_newSVpvn_share_GLOBAL
pv_display()	NEED_pv_display	NEED_pv_display_GLOBAL
pv_escape()	NEED_pv_escape	NEED_pv_escape_GLOBAL
pv_pretty()	NEED_pv_pretty	NEED_pv_pretty_GLOBAL
sv_2pv_flags()	NEED_sv_2pv_flags	NEED_sv_2pv_flags_GLOBAL
sv_2pvbyte()	NEED_sv_2pvbyte	NEED_sv_2pvbyte_GLOBAL
sv_catpvf_mg()	NEED_sv_catpvf_mg	NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext()	NEED_sv_catpvf_mg_nocontext	NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags()	NEED_sv_pvn_force_flags	NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()	NEED_sv_setpvf_mg	NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()	NEED_sv_setpvf_mg_nocontext	NEED_sv_setpvf_mg_nocontext_GLOBAL

```
  vload_module()          NEED_vload_module          NEED_vload_module_GLOBAL
  vnewSVpvf()             NEED_vnewSVpvf             NEED_vnewSVpvf_GLOBAL
  warner()                NEED_warner                NEED_warner_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

```
  #define DPPP_NAMESPACE MyOwnNamespace_
  #include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be
 run as a Perl script to check your
source code. Simply say:

```
  perl ppport.h
```

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

```
  perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions
for changes, use:

```
  perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using
the C<--diff> option:

```
  perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
  perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn>
 function,
use:

```
  perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression,
you can use

```
  perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
  perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item
5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.21;

my %opt = (
 quiet   => 0,
 diag   => 1,
 hints   => 1,
 changes   => 1,
 cplusplus => 0,

```
 filter    => 1,
 strip     => 0,
 version   => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/'.'*';
my
 $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt, qw(
   help quiet diag! filter! hints! changes! cplusplus strip version
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
 print "This is $0 $VERSION.\n";
 exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
 }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
```

```
 $opt{'compat-version'} = 5;
}

my
 %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
            ? ( $1 => {
                ($2               ? ( base     => $2 ) : ()),
                ($3               ? ( todo     => $3 ) : ()),
                (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
              } )
            : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
BhkDISABLE||5.019003|
BhkENABLE||5.019003|
BhkENTRY_set||5.019003|
BhkENTRY|||
BhkFLAGS|||
CALL_BLOCK_HOOKS|||
CLASS|||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002|5.004050|p
Copy||5.004050|
CvPADLIST||5.008001|
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set|5.010001||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
```

F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvAV|||
GvCV|||
GvHV|||
GvSVn|5.009003||p
GvSV|||
Gv_AMupdate||5.011000|
HEf_SVKEY||5.004000|
HeHASH||5.004000|
HeKEY||5.004000|
HeKLEN||5.004000|
HePV||5.004000|
HeSVKEY_force||5.004000|
HeSVKEY_set||5.004000|
HeSVKEY||5.004000|
HeUTF8||5.010001|
HeVAL||5.004000|
HvENAMELEN||5.015004|
HvENAMEUTF8||5.015004|
HvENAME||5.013007|
HvNAMELEN_get|5.009003||p
HvNAMELEN||5.015004|
HvNAMEUTF8||5.015004|
HvNAME_get|5.009003||p
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p

IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LINKLIST||5.013006|
LVRET|||
MARK|||
MULTICALL||5.019003|
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002|5.004050|p
Move||5.004050|
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||
OP_CLASS||5.013007|
OP_DESC||5.007003|
OP_NAME||5.007003|
ORIGMARK|||
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SVl|||
PAD_SV|||
PERLIO_FUNCS_CAST|5.009003||p

PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.019002||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.004000||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.019002||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.019002||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.019002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.019002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p

PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3||5.010000|
PERL_SYS_INIT||5.010000|
PERL_SYS_TERM||5.019003|
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_ULONG_MAX|5.004000||p
PERL_ULONG_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn

PL_Sv|5.005000||p
PL_bufend|5.019002||p
PL_bufptr|5.019002||p
PL_check||5.006000|
PL_compiling|5.004050||p
PL_comppad_name||5.017004|
PL_comppad||5.008001|
PL_copline|5.019002||p
PL_curcop|5.004050||p
PL_curpad||5.005000|
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.019002||p
PL_expect|5.019002||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.019002||p
PL_in_my|5.019002||p
PL_keyword_plugin||5.011002|
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.019002||p
PL_lex_stuff|5.019002||p
PL_linestr|5.019002||p
PL_modglobal||5.005000|n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_opfreehook||5.011000|n
PL_parser|5.009005|5.009005|p
PL_peepp||5.007003|n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rpeepp||5.013005|n
PL_rsfp_filters|5.019002||p
PL_rsfp|5.019002||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p

PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.019002||p
POP_MULTICALL||5.019003|
POPi|||n
POPl|||n
POPn|||n
POPpbytex||5.007001|n
POPpx||5.005030|n
POPp|||n
POPs|||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2nat|5.009003||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK|||
PUSH_MULTICALL||5.019003|
PUSHi|||
PUSHmortal|5.009002||p
PUSHn|||
PUSHp|||
PUSHs|||
PUSHu|5.004000||p
PUTBACK|||
PadARRAY||5.019003|
PadMAX||5.019003|
PadlistARRAY||5.019003|
PadlistMAX||5.019003|
PadlistNAMESARRAY||5.019003|
PadlistNAMESMAX||5.019003|
PadlistNAMES||5.019003|
PadlistREFCNT||5.017004|
PadnameIsOUR|||
PadnameIsSTATE|||
PadnameLEN||5.019003|
PadnameOURSTASH|||
PadnameOUTER|||
PadnamePV||5.019003|
PadnameSV||5.019003|
PadnameTYPE|||
PadnameUTF8||5.019003|
PadnamelistARRAY||5.019003|

PadnamelistMAX||5.019003|
PerlIO_clearerr||5.007003|
PerlIO_close||5.007003|
PerlIO_context_layers||5.009004|
PerlIO_eof||5.007003|
PerlIO_error||5.007003|
PerlIO_fileno||5.007003|
PerlIO_fill||5.007003|
PerlIO_flush||5.007003|
PerlIO_get_base||5.007003|
PerlIO_get_bufsiz||5.007003|
PerlIO_get_cnt||5.007003|
PerlIO_get_ptr||5.007003|
PerlIO_read||5.007003|
PerlIO_seek||5.007003|
PerlIO_set_cnt||5.007003|
PerlIO_set_ptrcnt||5.007003|
PerlIO_setlinebuf||5.007003|
PerlIO_stderr||5.007003|
PerlIO_stdin||5.007003|
PerlIO_stdout||5.007003|
PerlIO_tell||5.007003|
PerlIO_unread||5.007003|
PerlIO_write||5.007003|
Perl_signbit||5.009005|n
PoisonFree|5.009004||p
PoisonNew|5.009004||p
PoisonWith|5.009004||p
Poison|5.008000||p
READ_XDIGIT||5.017006|
RETVAL|||n
Renewc|||
Renew|||
SAVECLEARSV|||
SAVECOMPPAD|||
SAVEPADSV|||
SAVETMPS|||
SAVE_DEFSV|5.004050||p
SPAGAIN|||
SP|||
START_EXTERN_C|5.005000||p
START_MY_CXT|5.007003||p
STMT_END|||p
STMT_START|||p
STR_WITH_LEN|5.009003||p
ST|||
SV_CONST_RETURN|5.009003||p
SV_COW_DROP_PV|5.008001||p

SV_COW_SHARED_HASH_KEYS|5.009005||p
SV_GMAGIC|5.007002||p
SV_HAS_TRAILING_NUL|5.009004||p
SV_IMMEDIATE_UNREF|5.007001||p
SV_MUTABLE_RETURN|5.009003||p
SV_NOSTEAL|5.009002||p
SV_SMAGIC|5.009003||p
SV_UTF8_NO_ENCODING|5.008001||p
SVfARG|5.009005||p
SVf_UTF8|5.006000||p
SVf|5.006000||p
SVt_INVLIST||5.019002|
SVt_IV|||
SVt_NULL|||
SVt_NV|||
SVt_PVAV|||
SVt_PVCV|||
SVt_PVFM|||
SVt_PVGV|||
SVt_PVHV|||
SVt_PVIO|||
SVt_PVIV|||
SVt_PVLV|||
SVt_PVMG|||
SVt_PVNV|||
SVt_PV|||
SVt_REGEXP||5.011000|
Safefree|||
Slab_Alloc|||
Slab_Free|||
Slab_to_ro|||
Slab_to_rw|||
StructCopy|||
SvCUR_set|||
SvCUR|||
SvEND|||
SvGAMAGIC||5.006001|
SvGETMAGIC|5.004050||p
SvGROW|||
SvIOK_UV||5.006000|
SvIOK_notUV||5.006000|
SvIOK_off|||
SvIOK_only_UV||5.006000|
SvIOK_only|||
SvIOK_on|||
SvIOKp|||
SvIOK|||
SvIVX|||

SvIV_nomg|5.009001||p
SvIV_set|||
SvIVx|||
SvIV|||
SvIsCOW_shared_hash||5.008003|
SvIsCOW||5.008003|
SvLEN_set|||
SvLEN|||
SvLOCK||5.007003|
SvMAGIC_set|5.009003||p
SvNIOK_off|||
SvNIOKp|||
SvNIOK|||
SvNOK_off|||
SvNOK_only|||
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sv_setpvf_nocontext|||vn
sv_setpvf||5.004000|v
sv_setpviv_mg||5.008001|
sv_setpviv||5.008001|
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sv_setpvn|||
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yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{todo};
   print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
```

```
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
 my $code = shift;
 $code =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | "[^"\\]*(?:\\.[^"\\]*)*"
 | '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
 grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>) {
 if ($hint) {
   my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
   if (m{^\s*\*\s(.*?)\s*$}) {
     for (@{$hint->[1]}) {
       $h->{$_} ||= '';  # suppress warning with older perls
      $h->{$_} .= "$1\n";
     }
   }
   else { undef $hint }
 }

 $hint = [$1, [split /,?\s+/, $2]]
     if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

 if ($define) {
   if ($define->[1] =~ /\\$/) {
     $define->[1] .= $_;
   }
   else {
     if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
       my @n = find_api($define->[1]);
       push @{$depends{$define->[0]}}, @n if @n
     }
     undef $define;
   }
 }

 $define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

 if ($function) {
   if (/^}/) {
     if (exists $API{$function->[0]}) {
       my @n = find_api($function->[1]);
       push @{$depends{$function->[0]}}, @n if @n
```

```
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}

$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace
and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
  my @deps = map { s/\s+//g; $_ } split /,/, $3;
  my $d;
  for $d (map { s/\s+//g; $_ } split /,/, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

for (values %depends) {
 my %s;
 $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E$";
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $f =~ /$match/;
   print "\n=== $f ===\n\n";
   my $info = 0;
   if ($API{$f}{base} || $API{$f}{todo}) {
     my $base = format_version($API{$f}{base} || $API{$f}{todo});

    print "Supported at least starting from perl-$base.\n";
     $info++;
   }
   if ($API{$f}{provided}) {
     my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
```

```
    print "Support by $ppport provided back to perl-$todo.\n";
    print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
    print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
    print "\n$hints{$f}" if exists $hints{$f};
    print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    $info++;
  }
  print "No portability information available.\n" unless $info;
  $count++;
 }
 $count or print "Found no API matching '$opt{'api-info'}'.";
 print "\n";
 exit 0;
}

if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend'   if exists $depends{$f};
  push @flags, 'hint'
    if exists $hints{$f};
  push @flags, 'warning'  if exists $warnings{$f};
  my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
  print "$f$flags\n";
 }
 exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
 my %seen;
 for (@ARGV) {
  if (-e) {
    if (-f) {
      push @files, $_ unless $seen{$_}++;
    }
    else { warn "'$_' is not a file.\n" }
  }
  else {
    my @new = grep { -f } glob $_
       or warn "'$_' does not exist.\n";
    push @files, grep { !$seen{$_}++ } @new;
```

```
  }
 }
}
else {
 eval {
  require File::Find;
  File::Find::find(sub {
    $File::Find::name =~ /($srcext)$/i
        and push @files, $File::Find::name;
  }, '.');
 };
 if ($@) {
  @files = map { glob "*$_" } @srcext;
 }
}

if (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
   my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
  push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
  warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
 }
 @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
 unless (open IN, "<$filename") {
  warn "Unable to read from $filename: $!\n";
  next;
 }

 info("Scanning $filename ...");

 my $c = do { local $/; <IN> };
 close IN;

 my %file = (orig => $c, changes => 0);
```

```
# Temporarily remove C/XS comments and strings from the code
my @ccom;

$c =~ s{
  ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
  | ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
  | "[^"\\]*(?:\\.[^"\\]*)*"
  | '[^'\\]*(?:\\.[^'\\]*)*'
  | / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*
) )
}{ defined $2 and push @ccom, $2;
   defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {

      $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
      }
```

```
    }
  }
 }

 while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else { warning("Possibly wrong #define $1 in $filename") }
 }

 for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}{$func}}, $filename;
  }
 }

 $files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
 if (@{$global{needs}{$need}} > 1) {
  my @targets = @{$global{needs}{$need}};
  my @t = grep $files{$_}{needed_global}{$need}, @targets;
  @targets = @t if @t;
  @t = grep /\.xs$/i, @targets;
  @targets = @t if @t;
  my
 $target = shift @targets;
  $files{$target}{needs}{$need} = 'global';
  for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
  }
 }
}

for $filename (@files) {
 exists $files{$filename} or next;

 info("=== Analyzing $filename ===");

 my %file = %{$files{$filename}};
 my $func;
 my $c = $file{code};
 my $warnings = 0;
```

```
for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
                    { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
                      {$func$1(}g);
  }
}

 for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
          format_version($API{$func}{todo}), ", even with '$ppport'\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
```

```
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = '';
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = '';

  for $func
(sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }
```

```
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = '';
    $file{changes}++;
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
                   || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                   || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                   || ($c =~ s/^/$pp/);
    }
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");
```

```
 if ($file{changes}) {
   if (exists $opt{copy}) {
     my $newfile = "$filename$opt{copy}";
     if (-e $newfile) {
       error("'$newfile' already exists, refusing to write copy of '$filename'");
     }
     else {
       local
*F;
       if (open F, ">$newfile") {
         info("Writing copy of '$filename' with changes to '$newfile'");
         print F $c;
         close F;
       }
       else {
         error("Cannot open '$newfile' for writing: $!");
       }
     }
   }
   elsif (exists $opt{patch} || $opt{changes}) {
     if (exists $opt{patch}) {
       unless ($patch_opened) {
         if (open PATCH, ">$opt{patch}") {
           $patch_opened = 1;
         }
         else {
           error("Cannot open '$opt{patch}' for writing: $!");
           delete $opt{patch};
           $opt{changes} = 1;
           goto fallback;
         }
       }
       mydiff(\*PATCH, $filename, $c);
     }
     else {
fallback:
       info("Suggested changes:");
       mydiff(\*STDOUT, $filename, $c);
     }
   }
   else {
     my $s = $file{changes} == 1 ? '' : 's';
     info("$file{changes} potentially required change$s detected");
   }
 }
 else {
   info("Looks good");
 }
```

```
}

close
 PATCH if $patch_opened;

exit 0;


sub try_use { eval "use @_;"; return $@ eq '' }

sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
   $diff = run_diff($opt{diff}, $file, $str);
 }

 if (!defined $diff and try_use('Text::Diff')) {
   $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
   $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
   $diff = run_diff('diff -u', $file, $str);
 }

 if (!defined $diff) {
   $diff = run_diff('diff', $file, $str);
 }

 if (!defined $diff) {
   error("Cannot generate a diff. Please install Text::Diff or use --copy.");
   return;
 }

 print F $diff;
}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dpppptemp';
```

```
 my $suf = 'aaa';
 my $diff = '';
 local *F;

 while (-e "$tmp.$suf") { $suf++ }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
   print F $str;
   close F;

   if (open F, "$prog $file $tmp |") {
     while (<F>)
 {
       s/\Q$tmp\E/$file.patched/;
       $diff .= $_;
     }
     close F;
     unlink $tmp;
     return $diff;
   }

   unlink $tmp;
 }
 else {
   error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
}

sub rec_depend
{
 my($func, $seen) = @_;
 return () unless exists $depends{$func};
 $seen = {%{$seen||{}}};
 return () if $seen->{$func}++;
 my %s;
 grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
 my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
   return ($1, $2, $3);
 }
```

```
 elsif ($ver !~ /^\d+\.[\d_]+$/) {
   die "cannot parse version '$ver'\n";
 }

 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "cannot parse version '$ver'\n";
   }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) =
 $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "invalid version '$ver'\n";
   }
   $s /= 10;

   $ver = sprintf "%d.%03d", $r, $v;
   $s > 0 and $ver .= sprintf "_%02d", $s;

   return $ver;
 }

 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
```

```
{
 $opt{quiet} and return;
 print @_, "\n";
}

sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
 $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
 $opt{quiet} and return;
 my $func = shift;
 my $rv = 0;
 if (exists $warnings{$func} && !$given_warnings{$func}++) {
   my $warn = $warnings{$func};
   $warn =~ s!^!*** !mg;
   print "*** WARNING: $func\n", $warn;
   $rv++;
 }
 if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
   my $hint = $hints{$func};
   $hint =~ s/^/   /mg;
   print
 "   --- hint for $func ---\n", $hint;
 }
 $rv;
}

sub usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
```

```
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}

sub strip
{
 my $self = do { local(@ARGV,$/)=($0); <> };
 my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
 $copy =~ s/^(?=\S+)/    /gms;
 $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
 $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
 eval { require Devel::PPPort };
 \$@ and die "Cannot require Devel::PPPort, please install.\\n";
 if (eval \$Devel::PPPort::VERSION < $VERSION) {
   die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
     . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
     . "Please install a newer version, or --unstrip will not work.\\n";
  }
 Devel::PPPort::WriteFile(\$0);
 exit 0;
}
print <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

 \$^X \$0 --unstrip

END
/ms;
 my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
 $c =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | ( "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*' )
```

```
| ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
 $c =~ s!\s+$!!mg;
 $c =~ s!^$LF!!mg;
 $c =~ s!^\s*#\s*!#!mg;
 $c =~ s!^\s+!!mg;

 open OUT, ">$0" or die "cannot strip $0: $!\n";
 print OUT "$pl$c\n";

 exit 0;
}

__DATA__
*/
```

Found in path(s):
* /libterm-readkey-perl-2-38-orig-1-tar-gz/TermReadKey-2.38/ppport.h

1.200 python-launchpadlib 1.11.0-6

1.200.1 Available under license :

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1.201 newt 0.52.24-2ubuntu2

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

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

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

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

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

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

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

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1.202 libqrtr-glib 1.2.2-1ubuntu4

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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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1.205 libbytesize 2.10-1ubuntu2

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Module::Find version 0.16
==========

Module::Find lets you find and use modules in categories. This can be very
useful for auto-detecting driver or plugin modules. You can differentiate
between looking in the category itself or in all subcategories.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

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Test::More
File::Spec
File::Find

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=back

=head1 HISTORY

=over 8

=item 0.01, 2004-04-22

Original version; created by h2xs 1.22

=item 0.02, 2004-05-25

Added test modules that were left out in the first version. Thanks to
Stuart Johnston for alerting me to this.

=item 0.03, 2004-06-18

Fixed a bug (non-localized $_) by declaring a loop variable in use functions.
Thanks to Stuart Johnston for alerting me to this and providing a fix.

Fixed non-platform compatibility by using File::Spec.
Thanks to brian d foy.

Added setmoduledirs and updated tests. Idea shamelessly stolen from
...errm... inspired by brian d foy.

=item 0.04, 2005-05-20

Added POD tests.

=item 0.05, 2005-11-30

Fixed issue with bugfix in PathTools-3.14.

=item 0.06, 2008-01-26

Module::Find now won't report duplicate modules several times anymore (thanks to Uwe Völker for the report and the patch)

=item 0.07, 2009-09-08

Fixed RT#38302: Module::Find now follows symlinks by default

(can be disabled).

=item 0.08, 2009-09-08

Fixed RT#49511: Removed Mac OS X extended attributes from distribution

=item 0.09, 2010-02-26

Fixed RT#38302: Fixed META.yml generation (thanks very much to cpanservice for the help).

=item 0.10, 2010-02-26

Fixed RT#55010: Removed Unicode BOM from Find.pm.

=item 0.11, 2012-05-22

Fixed RT#74251: defined(@array) is deprecated under Perl 5.15.7.
Thanks to Roman F, who contributed the implementation.

=item 0.12, 2014-02-08

Fixed RT#81077: useall fails in taint mode
Thanks to Aran Deltac, who contributed the implementation and test.

Fixed RT#83596: Documentation doesn't describe behaviour if a module fails to load
Clarified documentation for useall and usesub.

Fixed RT#62923: setmoduledirs(undef) doesn't reset to searching @INC
Added more explicit tests.
Thanks to Colin Robertson for his input.

=item 0.13, 2015-03-09

This release contains two contributions from Moritz Lenz:

Link to Module::Pluggable and Class::Factory::Util in "SEE ALSO"

Align
package name parsing with how perl does it (allowing single quotes as module separator)

Also, added a test for meta.yml

=item 0.14, 2019-12-25

A long overdue update. Thank you for the many contributions!

Fixed RT#99055: Removed file readability check (pull request contributed by Moritz Lenz)

Now supports @INC hooks (pull request contributed by Graham Knop)

Now filters out filenames starting with a dot (pull request contributed by Desmond Daignault)

Now uses strict (pull request contributed by Shlomi Fish)

Fixed RT#122016: test/ files show up in metacpan (bug report contributed by Karen Etheridge)

=item 0.15, 2019-12-26

Fixed RT#127657 (bug report contributed by Karen Etheridge): Module::Find now uses @ModuleDirs (if specified) for loading modules. Previously, when using setmoduledirs() to set an array of directories that did not contain @INC, Module::Find would find the modules correctly, but load them from @INC.

=item 0.16, 2022-08-01

Fixes an issue where symlink
 tests failed on systems that do not support creation of symlinks.
The issue appears on Windows systems due to changed behaviour in C<File::Find> described in L<perl5/issue #19995|https://github.com/Perl/perl5/issues/19995>
Symlink tests were previously skipped if C<symlink()> is not available, and now also if creation of a symlink is not possible.

Fixes L<issue #9|https://github.com/crenz/Module-Find/issues/9>. Note that on Windows system, the patch to C<File::Find> from L<perl5/PR #20008|https://github.com/Perl/perl5/pull/20008> will be required for proper operation.

=back

=head1 DEVELOPMENT NOTES

The development repository for this module is hosted on GitHub: L<http://github.com/crenz/Module-Find/>. Please report any bugs by opening an issue there.

=head1 SEE ALSO

L<perl>, L<Module::Pluggable>, L<Class::Factory::Util>

=head1 AUTHOR

Christian Renz, E<lt>crenz@web42.comE<gt>

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=cut

Found in path(s):
* /libmodule-find-perl-0-16-orig-1-tar-gz/Module-Find-0.16/Find.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'Find and use installed modules in a (sub)category'
author:
 - 'Christian Renz <crenz@web42.com>'
build_requires:
 Test::More: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Module-Find
no_index:
 directory:
   - t
   - inc
recommends:
 Test::Pod: '1.14'
 Test::Pod::Coverage: '1.04'
requires:
 File::Find: '0'
 File::Spec: '0'
 perl: '5.008001'
resources:
 repository: http://github.com/crenz/Module-Find
version: '0.16'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /libmodule-find-perl-0-16-orig-1-tar-gz/Module-Find-0.16/META.yml

1.207 python-colorama 0.4.6-4

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1.208 pcsc-lite 2.0.3-1build1

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1.212 python-wadllib 1.3.6-5

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1.213 lsb 11.6

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1.214 libfastjson 1.2304.0-1build1

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1.215 duktape 2.7.0+tests-0ubuntu3

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// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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1.218 python-certifi 2023.11.17-1

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1.219 hd-parm 9.65+ds-1build1

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Mark Lord (mlord@pobox.com)

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/*

Adapted from ps.cc by J Robert Ray <jrray@jrray.org>

ps.cc

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Proc::ProcessTable

[![CircleCI](https://circleci.com/gh/jwbargsten/perl-proc-processtable/tree/master.svg?style=svg)](https://circleci.com/gh/jwbargsten/perl-proc-processtable/tree/master)

Please use github or [rt.cpan.org](https://rt.cpan.org/Public/Dist/Display.html?Name=Proc-ProcessTable) to submit bugs and patches.

MAINTENANCE STATUS

This module is maintained by Joachim Bargsten. I have nearly zero knowledge of
the implementation within but wanted to rescue the distribution from
abandonment and try to get critical bug fixes out. This will need to be
a community effort.

The source is in github -

  https://github.com/jwbargsten/perl-proc-processtable

Commit bits will be generously granted, send me your github id.

STATUS

This is BETA software; it seems to work, but use at your own risk :)

Currently works on darwin, nonstop-ux, Windows (both native MSWin32 and Cygwin), linux,
solaris, aix, hpux, freebsd,
 irix, dec_osf, bsdi, netbsd, unixware 7.x,
SunOS and openbsd. Please see the "README.osname" files for details on
individual os implementations. Please see the file PORTING if you are
interested in making it work on something else. Please see the file
TODO for a list of issues that need to be addressed (and send me
patches!).

Please note that the Windows port is derived from Cygwin code and is therefore covered
by the Cygwin license (http://cygwin.com/licensing.html).

Multithread support is now available for Solaris; please see
README.solaris for info. It may work under other OS's as well; please
let me know if it does.

Comments, bug reports, patches and especially ports are greatly
appreciated. If you want to submit a patch, *please* use standard

context-diff format; if you're submitting a port, a tarball of the new
files is great.

DESCRIPTION

This module is a first crack at providing a consistent interface to
Unix (and maybe other multitasking OS's) process table information.
The
 impetus for this came about with my frustration at having to parse
the output of various systems' ps commands to check whether specific
processes were running on different boxes at a larged mixed Unix site.
The output format of ps was different on each OS, and sometimes
changed with each new release of an OS. Also, running a ps subprocess
from within a perl or shell script and parsing the output was not a
very efficient or aesthetic way to do things.

With this module, you can do things like this:

```
  # kill memory pigs
  use Proc::ProcessTable;

  my $t = Proc::ProcessTable->new;
  foreach my $p ( @{$t->table} ) {
      if( $p->pctmem > 95 ){
        $p->kill(9);
      }
  }
```

There is another short example in the file "example.pl" in the
distribution. For a more elaborate example (in German), see
<http://www.linux-magazin.de/ausgabe.1999.02/Proc/proc.html>.
<shameless plug> If you can't read German, try my other module,
WWW::Babelfish!</shameless plug>

There
 are also two contributed modules: a module called Proc::Killall
contributed by Aaron Sherman to kill all processes whose command-lines
match a given pattern, and a module called Proc::Killfam by Stephen
Lidie to kill a list of processes and their children. These modules
are installed along with Proc::ProcessTable. Pod documentation is
included in both of them.

INSTALLATION

This module needs the File::Find and Storable modules in order to
work. File::Find is generally included with perl distributions;
Storable is available from CPAN.

After unpacking the tar file, do:

```
perl Makefile.PL
make
make test
make install
```

There is embedded POD documentation in ProcessTable.pm and
Process/Process.pm.

ACKNOWLEDGEMENTS

Thanks to the many people who have sent in ports and patches. Without
them this module would be impossible to support on so many platforms.
Patches are noted in the Changes file.

* David Paquet <David.Paquet@cnes.fr>: AIX port
* Mike Romberg
 <romberg@fsl.noaa.gov>: HPUX port
* Slaven Rezic <eserte@cs.tu-berlin.de>: FreeBSD port
* W. Phillip Moore <wpm@ms.com>: IRIX port
* Peter ? <hooft@natlab.research.philips.com>: IRIX version patch
* Bernhard Schmalhofer <Bernhard.Schmalhofer@gmx.de>: dec_osf port
* Sean Eskins <sean@gilasoft.com>: bsdi port
* Peter Reich <pr@alles.prima.de>: netbsd port
* Aaron Sherman <ajs@ajs.com>: Proc::Killall module
* Steve Lidie <sol0@Lehigh.EDU>: Killfam.pm module
* Martin Lucina <mato@catalyst.net.nz>: Unixware 7.x port
* Shawn Clifford <shawn.a.clifford@lmco.com> SunOS port
* J Robert Ray <jrray@jrray.org>:Windows (Cygwin) port.
* Tom Wyant <twyant3@comcast.net>:Darwin port.
* Mike Steinert <mike.steinert@motorola.com>: Nonstop-UX port.
* <bsd@openbsd.rutgers.edu>: Openbsd port.

Please note that Bernard Schmalhofer is no longer able to provide
support for the dec_osf port.

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* /libproc-processtable-perl-0-636-orig-tar-gz/Proc-ProcessTable-0.636/README.md

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=head1 NAME

killall - Kill all instances of a process by pattern matching the command-line

=head1 SYNOPSIS

 use Proc::Killall;

 killall('HUP', 'xterm'); # SIGHUP all xterms
 killall('KILL', '^netscape$'); # SIGKILL to "netscape"

=head1 DESCRIPTION

This module provides one function, C<killall()>, which takes two parameters:
a signal name or number (see C<kill()>) and a process pattern. This pattern
is matched against the process' command-line as the C<ps> command would
show it (C<ps> is not used internally, instead a package called
C<Proc::ProcessTable> is used).

C<killall> searches the process table and sends that signal to all processes
which match the pattern. The return value is the number of processes that
were successfully signaled. If any kills failed, the C<$!> variable
will be set based on that last one that failed (even if a successful kill
happened afterward).

=head1 AUTHOR

Written in 2000 by Aaron
 Sherman E<lt>ajs@ajs.comE<gt>

C<Proc::Killall> is copyright 2000 by Aaron Sherman, and may be
distributed under the same terms as Perl itself.

=head1 PREREQUISITES

C<Proc::ProcessTable> is required for C<Proc::Killall> to function.

=head1 SEE ALSO

L<perl>, L<perlfunc>, L<perlvar>, L<Proc::ProcessTable>

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* /libproc-processtable-perl-0-636-orig-tar-gz/Proc-ProcessTable-0.636/lib/Proc/Killall.pm
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/*-
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* from Apple in the adv_cmds portion of the Darwin distribution. The portions
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*
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```
/*
* Copyright (c) 2001 by Shawn A. Clifford <shawn.a.clifford@lmco.com>
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*
* Modification History:
*
* Who When  Description
* --- ---------- -----------------------------------------
* SAC 30July2001 Original code
*/
```

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* /libproc-processtable-perl-0-636-orig-tar-gz/Proc-ProcessTable-0.636/os/SunOS.c
* /libproc-processtable-perl-0-636-orig-tar-gz/Proc-ProcessTable-0.636/os/SunOS.h
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```
---
abstract: 'Perl extension to access the unix process table'
author:
 - 'Joachim Bargsten <jw@bargsten.org>'
build_requires:
 ExtUtils::MakeMaker: '0'
 Test::More: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.64, CPAN::Meta::Converter version 2.150010'
license: artistic_2
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Proc-ProcessTable
no_index:
 directory:
   - t
   - inc
requires:
 File::Find: '0'
 Storable: '0'
 perl: '5.006'
resources:
 repository: https://github.com/jwbargsten/perl-proc-processtable
version: '0.636'
```

x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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port of Proc::ProcessTable under AIX

New files
=========

os/aix.c
os/aix.h
hints/aix.pl
README.aix

Sample (low effort) application (please don't laugh ;)
==============================
minitop.pl
xminitop

Blah
====

o Documentation under AIX is rather cryptic and incomplete. I managed to read
 the process table using undocumented calls : getproc, getuser, getargs.

 I've read C code from Vic Abell <abe@purdue.edu> in lsof-4.36, Jussi Maki
 <Jussi.Maki@csc.fi> and Marcel J.E. Mol <marcel@mesa.nl> in monitor-2.1.2

 as well as a usenet news posted by Michael Wojcik <mike@raederle.mfltd.co.uk>

(Article: 63164 of comp.unix.aix, Date: 04/04/95)

[lsof is a really nice tool and provides C examples to read low-level
structures under nearly any UNIX system on earth.]

o my port was only tested under the following conditions :

AIX 4.1.5
perl 5.005_02

o I am not a C programming terminator, so consider this
as really ALPHA
software.

o I wanted this tool to be usable by a non root user. This is why I don't read
/dev/kmem unlike Vic and Jussi.

Bugs
====

o When mapping tty device numbers to names, I get a 'permission denied' message
due to the /dev/.SRC-unix directory whose perms are as follows :

drwxrwx--- 2 root system 512 Aug 12 11:26 .SRC-unix/

This dir contains only a few unix domain socket files used by IBM's System
Resource Controller, so it is of no interest for getting ttynames.

Maybe we should bind STDERR to /dev/null

o I sometimes get :
"Can't access `pctmem' field in class Proc::ProcessTable::Process"

It comes from the AUTOLOAD function defined in Process.pm. How come we are
able to access fields like "pctcpu" but not "pctmem" ? I am puzzled.

We may chenge the 'croak' statement to a 'warn' but it'd be better if we
knew where this error comes from.

o Hidden ones ? I bet there is some ...

Thanks
======
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--
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* from Apple in the adv_cmds portion of the Darwin distribution. The portions
* of this code which were included from that source are:
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/*alan.martin@oracle.com
* Copyright (c) 1998 by Mike Romberg (romberg@fsl.noaa.gov)
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*
* This will probably only work under HPUX-10 or later.
*
* 8/26/99 Added "fname" field for consistency with other OS's - D. Urist
*
*/

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Proc::ProcessTable

Please use rt.cpan.org to submit bugs and patches.

MAINTENANCE STATUS
==========
This module is now being lightly "maintained" by Jonathan Swartz <swartz@pobox.com>. I have nearly zero knowledge of the implementation within but wanted to rescue the distribution from abandonment and try to get critical bug fixes out. This will need to be a community effort.

The source is in github -

https://github.com/jwbargsten/perl-proc-processtable

Commit bits will be generously granted, send me your github id.

STATUS
======
This is BETA software; it seems to work, but use at your own risk :)

Currently works on darwin, nonstop-ux, Windows (both native MSWin32 and Cygwin), linux, solaris, aix, hpux, freebsd, irix, dec_osf, bsdi, netbsd, unixware 7.x, SunOS and openbsd. Please see the "README.osname" files for details on individual os implementations. Please see the file PORTING if you are interested
in making it work on something else. Please see the file TODO for a list of issues that need to be addressed (and send me patches!).

Please note that the Windows port is derived from Cygwin code and is therefore covered by the Cygwin license (http://cygwin.com/licensing.html).

Multithread support is now available for Solaris; please see README.solaris for info. It may work under other OS's as well; please let me know if it does.

Comments, bug reports, patches and especially ports are greatly
appreciated. If you want to submit a patch, *please* use standard
context-diff format; if you're submitting a port, a tarball of the new
files is great.

DESCRIPTION
===========
This module is a first crack at providing a consistent interface to
Unix (and maybe other multitasking OS's) process table information.
The impetus for this came about with my frustration at having to parse
the output of various systems' ps commands to check whether specific
processes were running on different boxes
 at a larged mixed Unix site.
The output format of ps was different on each OS, and sometimes
changed with each new release of an OS. Also, running a ps subprocess
from within a perl or shell script and parsing the output was not a
very efficient or aesthetic way to do things.

With this module, you can do things like this:

```
  # kill memory pigs
  use Proc::ProcessTable;

  my $t = Proc::ProcessTable->new;
  foreach my $p ( @{$t->table} ) {
     if( $p->pctmem > 95 ){
       $p->kill(9);
     }
  }
```

There is another short example in the file "example.pl" in the
distribution. For a more elaborate example (in German), see
<http://www.linux-magazin.de/ausgabe.1999.02/Proc/proc.html>.
<shameless plug> If you can't read German, try my other module,
WWW::Babelfish!</shameless plug>

There are also two contributed modules: a module called Proc::Killall
contributed by Aaron Sherman to kill all processes whose command-lines
match a given pattern, and a module called Proc::Killfam
 by Stephen
Lidie to kill a list of processes and their children. These modules
are installed along with Proc::ProcessTable. Pod documentation is
included in both of them.

INSTALLATION
============
This module needs the File::Find and Storable modules in order to

work. File::Find is generally included with perl distributions;
Storable is available from CPAN.

After unpacking the tar file, do:

```
    perl Makefile.PL
    make
 make test
    make install
```

There is embedded POD documentation in ProcessTable.pm and
Process/Process.pm.

ACKNOWLEDGEMENTS
==========
Thanks to the many people who have sent in ports and patches. Without
them this module would be impossible to support on so many platforms.
Patches are noted in the Changes file.

David Paquet <David.Paquet@cnes.fr> AIX port
Mike Romberg <romberg@fsl.noaa.gov> HPUX port
Slaven Rezic <eserte@cs.tu-berlin.de> FreeBSD port
W. Phillip Moore <wpm@ms.com> IRIX port
Peter ? <hooft@natlab.research.philips.com> IRIX
 version patch
Bernhard Schmalhofer <Bernhard.Schmalhofer@gmx.de> dec_osf port
Sean Eskins <sean@gilasoft.com> bsdi port
Peter Reich <pr@alles.prima.de> netbsd port
Aaron Sherman <ajs@ajs.com> Proc::Killall module
Steve Lidie <sol0@Lehigh.EDU> Killfam.pm module
Martin Lucina <mato@catalyst.net.nz> Unixware 7.x port
Shawn Clifford <shawn.a.clifford@lmco.com> SunOS port
J Robert Ray <jrray@jrray.org> Windows (Cygwin) port.
Tom Wyant <twyant3@comcast.net> Darwin port.
Mike Steinert <mike.steinert@motorola.com>
   Nonstop-UX port.
<bsd@openbsd.rutgers.edu> Openbsd port.

Please note that Bernard Schmalhofer is no longer able to provide
support for the dec_osf port.

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1.221 rich 13.7.1-1

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Contributors

The following people have contributed to the development of Rich:

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- [Artur Borecki](https://github.com/pufereq)
- [Pedro Aaron](https://github.com/paaaron)
- [Robin Bowes](https://github.com/yo61)
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1.222 lsb-release-minimal 12.0-2

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1.228 json-glib 1.8.0-2build2

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1.233 lazr-restfulclient 0.14.6-1

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1.234 xdg-user-dirs 0.18-1build1

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1.237 libnfs 5.0.2-1build1

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the
use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

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

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Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

the library.

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

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
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1.241 taglib 1.13.1-1build1

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distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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derivative work of the Library even though the source code is not.
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linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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zmta01.collab.prod.int.phx2.redhat.com) (10.5.5.31) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 02:43:28 -0400 (EDT)
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by zmta01.collab.prod.int.phx2.redhat.com (Postfix) with ESMTP id B6AB39081C;
Wed, 19 May 2010 02:43:28 -0400 (EDT)
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with ESMTP id ieqQbA5XErco; Wed, 19 May 2010 02:43:28 -0400 (EDT)
Received: from int-mx04.intmail.prod.int.phx2.redhat.com (int-mx04.intmail.prod.int.phx2.redhat.com [10.5.11.17])
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Received: from gs8.inmotionhosting.com (gs8b.inmotionhosting.com [74.124.194.50])
by mx1.redhat.com (8.13.8/8.13.8) with ESMTP id o4J6hH34025980;
Wed, 19 May 2010 02:43:17 -0400
Received: from 75-54-226-58.lightspeed.frmtca.sbcglobal.net ([75.54.226.58] helo=[192.168.1.67])
by gs8.inmotionhosting.com with esmtpsa (TLSv1:AES256-SHA:256)
(Exim 4.69)
(envelope-from <bill@thedirks.org>)
id 1OEd8K-0004wo-An; Tue, 18 May 2010 23:52:00 -0700

Message-ID: <4BF38878.9030208@thedirks.org>
Date: Tue, 18 May 2010 23:43:04 -0700
From: Bill Dirks <bill@thedirks.org>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.9) Gecko/20100317 Thunderbird/3.0.4
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: License question about v4l1-compat.c
References: <4BF2445B.2080203@redhat.com>
In-Reply-To: <4BF2445B.2080203@redhat.com>
Content-Type: text/plain;
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X-AntiAbuse: Primary Hostname - gs8.inmotionhosting.com
X-AntiAbuse: Original Domain - redhat.com
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X-AntiAbuse: Sender Address Domain - thedirks.org
X-Source:
X-Source-Args:
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X-RedHat-Spam-Score: 0 ()
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.17
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.6

Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your
LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:
> Hi Bill,
>
> AFAIK you've been out of the v4l loop, so I assume you
> don't know me, this let me start with a shot self introduction:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1
 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but

> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>
> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert
 doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and them use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
>   as skype).
>
> And now (finally) my question to you, lately we (the v4l devs) have
> been working on removing the last bits of v4l1 from the kernel.
> We would like to also remove the v4l1 ioctl compatibility (*), but
> currently libv4l1 depends on the v4l1 ioctl compatibility for some
> ioctls.
>
> Fixing this comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
>
 then the GPL. Thus my question is would it be ok to use your v4l1 compat
> code under the LGPL inside libv4l1 ?
>
> Thanks & Regards,
>
> Hans
>
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've

> come to the conclusion that we might just as well drop the
> compatibility from the kernel
>

##

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zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 04:25:49 -0400 (EDT)
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 for <hdegoede@redhat.com>; Wed, 19 May 2010 04:25:47 -0400
Message-ID: <4BF3A088.4050101@redhat.com>
Date: Wed, 19 May 2010 10:25:44 +0200
From: Gerd Hoffmann <kraxel@redhat.com>
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100430 Fedora/3.0.4-2.fc12
 Thunderbird/3.0.4
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

  Hi,

> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Fine with me.

cheers,

Gerd

##

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zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
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      Wed, 19 May 2010 10:27:50 +0200
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In-Reply-To: <4BF3A064.7080602@redhat.com>
References: <4BF3A064.7080602@redhat.com>
Date: Wed, 19 May 2010 10:27:50 +0200
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
From: "Hans Verkuil" <hverkuil@xs4all.nl>
To: "Hans de Goede" <hdegoede@redhat.com>
Cc: "Gerd Hoffmann" <kraxel@redhat.com>,
      "Mauro Carvalho Chehab" <mchehab@redhat.com>,
      "Trent Piepho" <xyzzy@speakeasy.org>,
      "Huzaifa Sidhpurwala" <huzaifas@redhat.com>
User-Agent: SquirrelMail/1.4.18
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1

Content-Transfer-Encoding: 8bit
X-Virus-Scanned: by XS4ALL Virus Scanner
X-RedHat-Spam-Score: -0.02 (RCVD_IN_DNSWL_NONE,T_RP_MATCHES_RCVD)
X-Scanned-By: MIMEDefang
 2.67 on 10.5.11.16
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.14

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
>
> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
>
> For those who don't know me or the v4l1 cleanup effort,
> read below for the long story.
>
> Making libv4l1 independent of the v4l1-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> then the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Permission granted.

Looking
 forward to seeing this in libv4l1 so we can kill this legacy code
in the kernel.

Regards,

Hans Verkuil

>
> Thanks & Regards,
>
> Hans
>
>
> The long story:
>

> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
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>
> One problem with getting these merged is that a lot of webcam
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>
>
This was not acceptable thus it was time to write a library
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> conversion if necessary. This resulted in libv4l2 and
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>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
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> the device and them use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
> as skype).
>
> Lately we (the v4l devs) have been working on removing the last bits
> of v4l1 from the kernel. We would like to also remove the v4l1 ioctl
> compatibility (*), but currently libv4l1 depends on the v4l1 ioctl
>
compatibility for some ioctls, we are working on fixing this
> which involves re-using code from v4l1-compat.c, hence the
> re-licensing permission question.
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel.

>

--
Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

##

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 (version=TLSv1/SSLv3 cipher=DHE-RSA-AES256-SHA bits=256 verify=NO);
 Wed, 19 May 2010 10:25:00 -0400
Message-ID: <4BF3F4B9.3060803@redhat.com>
Date: Wed, 19 May 2010 11:24:57 -0300
From: Mauro Carvalho Chehab <mchehab@kernel.org>
User-Agent: Thunderbird 2.0.0.22 (X11/20090609)
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
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      Trent Piepho <xyzzy@speakeasy.org>,
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Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hans de Goede wrote:
> Hi All,
>
> I'm writing you all because you've contributed patches

> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
>
> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
>
> For those who don't know me or the v4l1 cleanup effort,
> read below for the long story.
>
> Making libv4l1 independent of the v4l1-compat.c code in the
> kernel comes down to looking at what the kernel compat code
> does and then implementing
 that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> then the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

LGPL for v4l1-compat code is fine for me.

Cheers,
Mauro

##

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1.243 libproxy 0.5.4-4build1

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.244 libthai 0.1.29-2build1

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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary

General Public License therefore permits
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entire combination fits its criteria of freedom. The Lesser General
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case, there is little to gain by limiting the
free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
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be combined with the library in order to
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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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.)

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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
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the
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threshold for this to be true is not precisely defined by law.

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1.245 cdparanoia 3.10.2+debian-14build3

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

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1.246 lcms 2.14-2build1

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1.247 cairo 1.18.0-3build1

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refers to a function or a
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under the terms of Sections 1 and 2 above on a
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source code from the same place satisfies the requirement to
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creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

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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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link a "work that uses the Library" with the Library to produce a
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That's all there is to it!

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1.252 libvisual 0.4.2-2build1

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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Any executables containing that work also fall under Section 6,
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1.254 webrtc-audio-processing 0.3.1-0ubuntu6

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modules/audio_coding/codecs/g711/main/source/g711.h
modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c
modules/audio_coding/codecs/isac/main/source/fft.c
modules/audio_device/mac/portaudio/pa_memorybarrier.h
modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h
modules/audio_processing/aec/aec_rdft.c
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*
* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine

* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*
* ----- Original Message -----
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
 * Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

Files:
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modules/audio_coding/codecs/g711/main/source/g711.h

License:
/*
* SpanDSP - a series of DSP components for telephony
*
* g711.h - In line A-law and u-law conversion routines
*
* Written by Steve Underwood <steveu@coppice.org>
*
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modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c

License:
/*

```
 * SpanDSP - a series of DSP components for telephony
*
* g722_decode.c - The ITU G.722 codec, decode part.
*
* Written by Steve Underwood <steveu@coppice.org>
*
* Copyright (C) 2005 Steve Underwood
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*  even the slimy ones who might try to proprietize my work and use it
*  to my detriment.
*
* Based in part on a single channel G.722 codec which is:
*
* Copyright (c) CMU 1993
* Computer Science, Speech Group
* Chengxiang Lu and Alex Hauptmann
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* that everyone benefits.
*/

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modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h

License:

/*
 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
*
* Author: Bjorn Roche, XO Audio, LLC
*
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*/

/*
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
*
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
*
* Note that this is safe only for a single-thread reader and a
* single-thread writer.
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common_audio/fft4g.c
modules/audio_processing/aec/aec_rdft.c

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http://www1.cse.wustl.edu/~schmidt/ACE-copying.html

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Source:
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1.256 libvorbis 1.3.7-1build3

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1.257 libraw 2.1.2-2build3

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1.258 libogg 1.3.5-3build1

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1.263 glib-networking 2.80.0-1build1

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Version 2.1, February 1999

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

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

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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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
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be optional: if the application does not supply it, the square
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

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

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

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the work with the complete corresponding
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1.264 ding-libs 0.6.2-2.1build1

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

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

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the

earlier work or a work "based on" the earlier work.

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

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

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1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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1.266 libiec 1.2.0-6build1

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

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

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

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1.272 tcl 8.6.14+dfsg-1build1

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1.273 lame 3.100-6build1

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The current maintainer is Rogrio Brito <rbrito@users.sf.net>.

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1.275 session-migration 0.3.9build1

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1.276 x11-utils 7.7+6build2

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.280 xft 2.3.6-1build1

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1.281 libshout 2.4.6-1build2

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[This is the first released version of the library GPL. It is
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code. If you link a program with the library, you must provide
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with the library, after making
 changes to the library and recompiling
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 Finally, any free program is threatened constantly by software
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 Most GNU software, including some libraries, is covered by the ordinary
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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
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 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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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:

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must itself be a software library.

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

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

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

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

root function must still compute square roots.)

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

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

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

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

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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.

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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.

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

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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
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to use the modified definitions.)

b) Accompany
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1.282 x11-xkb-utils 7.7+8build2

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

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

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

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

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

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

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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.

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

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

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

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

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

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

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a) Accompany

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

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1.285 aalib 1.4p5-51.1

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1.286 yajl 2.1.0-5build1

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1.288 libsamplerate 0.2.2-4build1

1.288.1 Available under license :

---
layout: default

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1.289 free-type 2.13.2+dfsg-1build3

1.289.1 Available under license :

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```
/***************************************************************************
*
*  grx11.c  graphics driver for X11.
*
*  This is the driver for displaying inside a window under X11,
*  used by the graphics utility of the FreeType test suite.
*
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
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*
***************************************************************************/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/x11/grx11.c

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

```
/***************************************************************************
*
*  grwin32.h  graphics driver for Win32 platform (header)
*
*  This is the driver for displaying inside a window under Win32,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Antoine Leca.
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
*
*  Borrowing liberally from the other FreeType drivers.
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*
```

**/

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/win32/grwin32.h
No license file was found, but licenses were detected in source scan.

and distributed under the terms of the FreeType project license,

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/meson.build
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/meson_options.txt
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/meson.build
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/ftinspect/meson.build
No license file was found, but licenses were detected in source scan.

2023-08-25 Werner Lemberg <wl@gnu.org>

 * Version 2.13.2 released.
 ==========================

 Tag sources with 'VER-2-13-2'.

 * README: Updated.
 * meson.build: Updated.
 * man/*.1: Updated.

2023-08-25 Werner Lemberg <wl@gnu.org>

 Fix clang warnings.

 * graph/gblblit.c (gblender_glyph_upgray), src/ftmulti.c (Render_All): Add
   cast.
 * src/ftdump.c (get_english_name_entry): Initialize `name`.

2023-08-24 Werner Lemberg <wl@gnu.org>

 * subprojects/*.wrap: Updated.

2023-08-17 Hugh McMaster <hugh.mcmaster@outlook.com>

 ftlint.1: Instruct man(1) to run the groff `tbl` preprocessor

 The latest version of groff (1.23.0) emits a warning when it detects the
 use of table macros (.TS, .TE) with no .TW (table width) macro defined:

   tbl preprocessor failed, or it or soelim was not run; table(s) likely
   not rendered (TE macro called with TW register undefined).

The warning occurs because the `tbl` preprocessor
was not invoked by
the `man` command. To fix the issue, we need to instruct man(1) to
run the `tbl` preprocessor before rendering the source as text.

This issue was detected by Debian's Lintian tool.

2023-08-13 Hugh McMaster <hmc@debian.org>

* src/ftmulti.c: Miscellaneous spelling and readability fixes.

 * Update comments.
 * Fix a typo: dimentions -> dimensions.

2023-08-06 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix default named instance handling.

Now the named instance selector no longer doubles the default named instance.
`FT_Get_Default_Named_Instance` is used to get the default NI index.
The default one is labeled as " (default)".

* src/ftinspect/widgets/tripletselector.cpp: Properly handle the new 1-based
  named instance indices. Label the default NI correctly.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `Engine::defualtNamedInstanceIndex`.

* src/ftinspect/engine/mmgx.cpp: Change comments.

2023-08-06 Charlie
Jiang <w@chariri.moe>

[ftinspect] Fix named instances switching.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/mmgx.hpp:
  Load the default values of MMGX axes from the named instance instead of
  the global default one.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Switch the named instance using `FT_Set_Named_Instance` when loading
  fonts.

2023-07-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (usage): Document the `-a` option.

2023-07-26 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix the glyph index selector layout when the window resizes.

Fixes #26. When the window resizes, the invisible tabs don't get notified.
Therefore, when the active tab changes, we need to trigger a manual
relayouting of invisible tabs.

* src/ftinspect/widgets/glyphindexselector.hpp,
  src/ftinspect/widgets/glyphindexselector.cpp:
  Extract public method `relayoutNavigation` from `resizeEvent`.

* src/ftinspect/panels/abstracttab.hpp:
Add `relayout` virtual method.

* src/ftinspect/maingui.cpp: Call `AbstractTab::relayout` on the new tab
  when the active tab changes.

* src/ftinspect/panels/singular.cpp, src/ftinspect/panels/singular.hpp,
  src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  Implement `relayout` method and call `relayoutNavigation` of the glyph
  index selector in `relayout`.

2023-07-26 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_MM_Info): Fix signedness mismatch.

2023-07-21 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

* vms_make.com: Synchronize with similar changes in the FreeType library.

2023-07-16 Hin-Tak Leung <htl10@users.sourceforge.net>

src/rsvg-port.c: Correct usage of `FT_Bool` vs `gboolean` comparison.

`TRUE` in this context is from glib headers (`glib-2.0/glib/gmacros.h`),
imported indirectly from rsvg headers. It should not be used for comparison
with `FT_Bool` types. Other usages of `TRUE/FALSE` in this file is
okay.

2023-07-08 Hin-Tak Leung <htl10@users.sourceforge.net>

rsvg-port.c: Simplify usage of `rsvg_handle_render_*`.

* src/rsvg-port.c (rsvg_port_preset_slot): Remove usage of
`rsvg_handle_render_document` (and `rsvg_handle_render_cairo`). They are
functionally the same as `rsvg_handle_render_layer` (and
`rsvg_handle_render_cairo_sub`) with argument id set to NULL.

2023-07-08 Hin-Tak Leung <htl10@users.sourceforge.net>

* src/ttdebug.c (RunIns): Signature fix.

A somewhat similar change to what happened in the FreeType library:

  commit 95d635eab1b08a0051de07b6c33067d2c1984848
  Author: Werner Lemberg <wl@gnu.org>
  Date: Sun May 7 08:34:32 2023 +0200

      [truetype] Signature fixes.

2023-06-24 Werner Lemberg <wl@gnu.org>

* Version 2.13.1 released.
==========================

Tag sources with 'VER-2-13-1'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.
* subprojects/zlib.wrap: Updated.

2023-06-24 Werner Lemberg <wl@gnu.org>

* src/rsvg-port.c
(rsvg_port_preset_slot): Fix C++ compilation warning.

2023-06-03 Hin-Tak Leung <htl10@users.sourceforge.net>

Fix out-of-memory conditions with newer 'librsvg'.

Excerpts from `rsvg_handle_get_intrinsic_dimensions` section in
`librsvg/rsvg.h`:

```
Before librsvg 2.54.0, the `out_has_width` and `out_has_height` arguments
would be set to true or false depending on whether the SVG document actually
had `width` and `height` attributes, respectively.

However, since librsvg 2.54.0, `width` and `height` are now [geometry
properties](https://www.w3.org/TR/SVG2/geometry.html) per the SVG2
specification; they are not plain attributes.  SVG2 made it so that the
initial value of those properties is `auto`, which is equivalent to
specifying a value of `100%`.  In this sense, even SVG documents which lack
`width` or `height` attributes semantically have to make them default to
`100%`.  This is why since librsvg 2.54.0, `out_has_width` and
```

`out_has_heigth` are always
returned as `TRUE`, since with SVG2 all
documents *have* a default width and height of `100%`.
```

* src/rsvg-port.c (rsvg_port_preset_slot): Adjust for change of behavior of
`rsvg_handle_get_intrinsic_dimensions` in librsvg 2.53+. We avoid
`LIBRSVG_CHECK_VERSION` as it is possible to build against one version but
run against another version.

2023-06-03 Hin-Tak Leung <htl10@users.sourceforge.net>

Fix 'librsvg' deprecation warnings.

* src/rsvg-port.c (rsvg_port_preset_slot): Use `rsvg_handle_render_document`
instead of `rsvg_handle_render_cairo`, and `rsvg_handle_render_layer`
instead of `rsvg_handle_render_cairo_sub`, as suggested by the warning,
conditionally on newer librsvg 2.52+.

2023-05-22 Werner Lemberg <wl@gnu.org>

man/ftview.1: Improve documentation of option `-l`.

2023-05-19 Seigo Nonaka <nona@google.com>

* src/ftmulti.c (main): Make program actually handle option `-a`.

2023-05-19 Seigo Nonaka <nona@google.com>

[ftbench] New option `-a` to apply
design coordinates.

The performance of MM fonts is quite different in comparison to static
fonts. To be able to get benchmarks for the former, add a new command-line
option to pass design coordinates.

* src/ftbench.c: Include `ftmm.h`.
(MAX_MM_AXES): New macro.
(multimaster, design_pos, requested_pos, requested_cnt, used_num_axes): New
global variables.
(get_face): Load MM data if requested.
(parse_design_coords): New function.

* man/ftbench.1: Updated.

2023-05-15 Werner Lemberg <wl@gnu.org>

[ftview] New key 'Z' to flip SVG rendering.
```

* src/ftcommon.h (FTDemo_Handle): New field `use_svg`.
* src/ftcommon.c (FTDemo_New, FTDemo_Update_Current_Flags): Handle it.

* src/ftview.c (Process_Event): Make key 'Z' toggle SVG usage.
(event_help, write_header): Updated.

2023-05-14 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Set up cache earlier.

* src/ftbench.c (main): Run `FTC_Manager_New` and `FTC_*Cache_New`
earlier and decide the test availability accordingly.
(test_*_cache,benchmark):
Do not check if cache is set.

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

*src/ftbench.c (test_stroke): Test outline glyphs only.

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Assure cache setup, clean exit.

2023-05-12 Ben Wagner <bungeman@chromium.org>

Correct type of icon_span

The `icon_span` is used as a `FT_SpanFunc`. To avoid undefined behavior
and a CFI sanitizer report, this function needs to called through a
pointer of the same type. Fix this by making `icon_span` take the right
parameter types and cast the argument in the function body.

* src/ftcommon.c (icon_span): take correct parameters and cast in
function body. (FTDemo_Icon): remove cast

2023-05-12 Ben Wagner <bungeman@chromium.org>

[graph] Correct function pointer types

Building the demos with the CFI sanitizer detects a number of uses of
undefined behavior in the Minimalist Graphics Subsystem where an
indirect function
call is made through a pointer of a different type.
All of these cases worked in practice since the differing argument
types were the same size and would have the same pointer value at
runtime.

Change the functions to take the correct types and downcast inside the function.

* graph/beos/grbeos.cpp: remove casts

* graph/mac/grmac.c: correct return type of `listen_event`, remove casts

* graph/os2/gros2pm.c: correct function signatures, downcast inside functions, remove function pointer casts

* graph/win32/grwin32.c: ditto

* graph/x11/grx11.c: ditto

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Use proper `face_requester`.

It is wrong to forfeit the face ownership to the cache manager. Fixes #29.

* src/ftbench.c (face_requester): Call `get face`.
(main): Never pass `face` to the cache manager.

2023-05-10 Werner Lemberg <wl@gnu.org>

subprojects/*.wrap: Updated.

2023-05-09 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

vms_make.com:
Correctly handle 'libbz2'.

2023-05-08 Werner Lemberg <wl@gnu.org>

* src/ftdump.c (Print_Sfnt_Tables): Insert spaces between bytes.

2023-05-08 Werner Lemberg <wl@gnu.org>

[ftdump] Show more variation font info.

* src/ftdump.c (Print_MM_Axes): Rename to...
(Print_MM_Info): ...this.
Show Variation Font PostScript name prefix.
Show named instances.

2023-05-08 Werner Lemberg <wl@gnu.org>

[ftdump] Code cleanup.

* src/ftdump.c (Print_MM_Axes): Move code to find an English name entry
to...
(get_english_name_entry): ... this new function.

2023-05-08 Werner Lemberg <wl@gnu.org>

* src/output.c: Handle `\0` specially.

Broken or intentionally invalidated fonts might contain NULL bytes at
arbitrary places.

2023-05-05 suzuki toshiya <mpsuzuki@hiroshima-u.ac.jp>

[ftdump] Print CID-keyed font properties if available.

* src/ftdump.c

(FT_CID_MAX): New macro.

(usage): Mention the CID coverage in `-c' and `-C'
options.

(Print_UInt_Range): New function to print
2 numbers
with a separator if needed.

(Print_CIDs): New function to print the implemented
CIDs in a compressed syntax. If a case
`gid_N < gid_M && CID_N > CID_M' is found, ftdump
aborts and guide the user to file the issue.

(Print_ROS_From_Face): New function to print the
Registry, Ordering, and Supplement of the CID-keyed
fonts, if available. If `-c' or `-C' option is
given, Print_CIDs() is invoked.

(main): Invoke Print_ROS_From_Face().

2023-04-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (grid_status_rescale): Use PPEM-based scaling.

The zoom becomes well defined for the given size but the ascender and
descender lines might be offside.

2023-04-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_{All,Fancy,Stroke}): Improve zero-width glyphs.

2023-04-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_{All,Fancy,Stroke}): Tweak zero-width glyphs.

This helps to avoid collisions and unhides zero-width
glyphs better.

2023-04-21 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Use green empty boxes instead.

* src/ftview.c (status): Store green color.
(main): Initialize it.
(Render_*): Use it.

2023-04-21 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (main): Remove unnecessary code.

2023-03-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Handle rendering errors differently.

2023-03-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Fix segfault with bad command line.

2023-03-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftlint] Examine the outline shape complexity.

Measured as a ratio of the outline half-perimeter to the sum of its
control box dimensions, the shape complexity is a useful metric.
For example, an `I` and an `M` would have complexities of about
1.0 and 2.0, respectively.

* src/ftlint.c (Examine): Implement the shape complexity calculation.
(main) Report the shape complexity.
* man/ftlint.1:
Add a brief explanation.

2023-03-15 Charlie Jiang <w@chariri.moe>

[ftinspect] Support gray level scaling.

See commit 746d5be5: Convert to 256 grays. Slightly tweaked code style.

* src/ftinspect/engine/rendering.cpp (RenderingEngine::convertBitmapTo8Bpp):
Implement it.

2023-03-10 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

Update VMS installation support.

2023-03-03 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix uninitialized memory issue and reference misuse.

Fixes issue #23.

* src/ftinspect/engine/rendering.cpp (RenderingEngine::convertBitmapTo8Bpp):
Properly initialize `FT_Bitmap` since it is a value type.
(RenderingEngine::convertBitmapToQImage): Fix the accidental overwriting of
the source bitmap when converting the bitmap format (only happens for
`FT_PIXEL_MODE_GRAY2` and `FT_PIXEL_MODE_GRAY4`) due to a misuse of a C++
reference.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp
(GlyphContinuous::drawCacheGlyph): Fix a crash when the `QImage`
was failed
to produce.

2023-03-02 Werner Lemberg <wl@gnu.org>

* graph/gblblit.c: Include `<stdlib.h>`.

This is for the `abs` function.

2023-03-02 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Handle glyphs with 4 or 16 grays.

* graph/gblblit.c (gblender_glyph_upgray): Convert to 256 grays.
(gblender_blit_init): Call it if necessary.

2023-02-27 Werner Lemberg <wl@gnu.org>

TrueType mode v38 is gone.

Synchronize with FreeType commit 'Hide Infinality.' from 2023-Feb-17.

Both macros `TT_INTERPRETER_VERSION_38` and `TT_INTERPRETER_VERSION_40` have
now the same value, leading to numerous compilation errors because we use
these two macros as (different) case labels in switch statements.

* src/ftbench.c (tt_interpreter_versions, header, usage, main): Don't use
`TT_INTERPRETER_VERSION_38`.
* src/ftcommon.c (FTDemo_Hinting_Engine_Change, FTDemo_Get_Info): Ditto.
* src/ftdiff.c (ColumnStateRec, render_state_init, render_state_draw):
Ditto.
* src/ftmulti.c
(tt_interpreter_versions, main): Ditto.
* src/ttdebug.c (tt_interpreter_versions, Usage, main): Ditto.

* src/ftinspect/engine/engine.hpp (EngineDefaultValues): Ditto.
* src/ftinspect/engine/engine.cpp (Engine::queryEngine): Ditto.
* src/ftinspect/models/customcomboboxmodels.hpp (HintingModeComboBoxModel):
Ditto.
* src/ftinspect/models/customcomboboxmodels.cpp
(HintingModeComboBoxModel::HintingModeComboBoxModel): Ditto.
* src/ftinspect/panels/settingpanel.cpp (SettingPanel::setDefaults): Ditto.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftmulti.c: Clean up loading and scaling.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftmulti.c (main, Init_Display): Clean up GUI setup.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftmulti.c: Clean up and fix MSVC warnings.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

 * man/ftmulti.1: Updated.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftmulti] Enable
 fill rule flag testing.

 Variation fonts often relay on overlapping contours. To reveal them,
 we enable turning the even-odd fill rule on and off. This flag is
 always off in FreeType by default but supported by the anti-aliased
 renderer.

 * src/ftmulti.c (Process_Event): Reassign F3 to fill rule toggle,
 assign Tab to anti-aliasing toggle.
 (Render_Glyph): Tinker with the fill rule flags before rendering.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftmulti.c: Clean up and fix warnings.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftmulti.c (Process_Event): Miscellaneous tweaks.

 Set default step at 1/40 which covers most preferable coordinates.
 Adjust the step by doubling or halving it. Round all large-range
 coordinates, not just MM. Wrap the coordinates around.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftmulti.c (Render_All, Render_Text, main): Layout tweaks.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftmulti]
 Enable overlap flag testing.

 Variation fonts often relay on overlapping contours, which require
 oversampling to render properly. FreeType relies on FT_OUTLINE_OVERLAP
 to trigger the expensive mitigation algorithm. This commit enables
 tinkering with the overlap flags and, therefore, the oversampling.
 Normally, the flags should be set by the font designers sparingly.

 The bitmap strike toggle is no longer available, which has never
 been important for the variation font testing.

 * src/ftmulti.c (Process_Event): Reassign F4 to overlap toggle.
 (Render_Glyph): Tinker with the overlap flags before rendering.

2023-02-11 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftmulti.c (Init_Display): Use automatic color depth.

2023-02-11 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftmulti.c (main): Synchronize options with the others.

2023-02-09 Werner Lemberg <wl@gnu.org>

 * Version 2.13.0 released.
 ========================

 Tag sources with 'VER-2-13-0'.

*
README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

2023-02-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (Message_Process): Drop some sizing messages.

With the window procedure in a separate thread we only need to forward
basic WM_SIZE, which is sent frequently enough.

2023-02-08 Werner Lemberg <wl@gnu.org>

Fix various minor compiler warnings.

2023-02-08 Werner Lemberg <wl@gnu.org>

[ftgrid] Synchronize with FreeType git.

The changes are necessary due to the commit

```
Avoid reserved identifiers that are globally defined.
```

2023-02-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Render_All): Tighten right margin.

2023-02-07 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Add ftmulti.

* builds/windows/msvc/ftmulti.vcxproj: New project.
* builds/windows/msvc/ft2demos.sln: Add it to solutions.

2023-02-07 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Minor driver improvements.

*
graph/win32/grwin32.c: (gr_win32_device_init): Do not set icon
or background, which is covered anyway.
(Message_Process) [WM_PAINT]: Paint only updated rectangle.

2023-02-06 Werner Lemberg <wl@gnu.org>

* src/ftmulti.c (Process_Event): Simplify.

2023-02-06 Werner Lemberg <wl@gnu.org>

[ftmulti] More key reassignments.

This is a try to better harmonize with other demo programs, and to make the selection of axes more mnemonic.

* src/ftmulti.c (MAX_MM_AXES): Set to 16.
(Process_Event): Use keys 'aA' for axis 0, 'bB' for axis 1, ..., 'pP' for axis 16.
Use F1 for help, too.
Use 16, 256, and 4096 as the glyph index increments.
Also adjust other keys to avoid collisions.
(Help): Updated.
(main): Show mnemonic letter next to axis.
Updated.

2023-02-05 Werner Lemberg <wl@gnu.org>

[ftmulti] Display up to 15 axes.

Due to the support of the 'avar' version 2 OpenType extension it is expected that the number of axes in many fonts will increase because adding 'virtual
axes' is cheap now.

* src/ftmulti.c (MAX_MM_AXES): Set to 15.
(Help): Updated.
(Process_Event): Handle keys '7890-=' for axes 6-8, '!@#$%^' for axes 9-11, and '&*()_+' for axes 12-14.

2023-02-05 Werner Lemberg <wl@gnu.org>

[ftmulti] Change layout to list axes vertically.

* src/ftmulti.c (Render_All, Render_Text): Shift 'upper left corner' for glyph display up and to the right.
(main): Emit one axis per line at the left side of the screen.

2023-02-05 Werner Lemberg <wl@gnu.org>

* graph/grevents.h (grKey): Add `grKeyHash` and `grKeyAmpersand`.

2023-02-04 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (my_face_requester): Recognize t1 file extension.

2023-02-04 Alexei Podtelezhnikov <apodtele@gmail.com>

 * graph/win32/grwin32.c (Message_Process): Return TRUE on WM_SIZING.

2023-02-02 Alexei Podtelezhnikov <apodtele@gmail.com>

 [graph/win32] Improve error handling.

 * graph/win32/grwin32.c (gr_win32_surface_resize): Change return type.
(gr_win32_surface_init):
 Ditto and handle failure gracefully.

2023-02-01 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftstring.c (write_header): Change layout.

2023-01-30 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftlint.c (Analyze): Report void bitmaps.

2023-01-30 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftstring] Reduce floating point use.

 * src/ftcommon.c (FTDemo_String_Load): Use signed integers, not doubles.
 * src/ftstring.c (event_angle_change): Minor.

2023-01-30 Werner Lemberg <wl@gnu.org>

 * subprojects/libpng.wrap: Updated.

2023-01-29 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftstring.c (write_header): Always report kerning info.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftstring] New feature: simple string editor.

 It only handles printable ASCII characters and backspace to erase them.

 * src/ftstring.c (Process_Event): Use Enter key to initiate this mode.
(Process_TTY): Intercept and handle relevant keys
while editing.
(Render_TTY): Special rendering mode while editing.
(main, event_help): Updated.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftstring.c (event_render_mode_change): Remove report.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

 * graph/win32/grwin32.c (key_translators): Sort virtual-key codes.

2023-01-27 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftstring.c (Render_Waterfall): Avoid bitmap reloading.

 This hides horrible performance of compressed PCF fonts.

2023-01-25 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftview.c (Render_Waterfall): Fill the right margin.

 The waterfall looks better if the string runs over the edge.

2023-01-25 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftgrid,ftstring,ftview] Option to select charmap by index.

 * src/ftcommon.c (FTDemo_Install_Font): Accept a charmap index.
(FTDemo_Make_Encoding_Tag): Fall back on a numeric value to return.

 * src/ftgrid.c, src/ftstring.c, src/ftview.c
(usage): Updated.
* man/ftgrid.1, man/ftstring.1, man/ftview.1: Ditto.

2023-01-24 Alexei Podtelezhnikov <apodtele@gmail.com>

 Typos.

2023-01-23 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftlint.c (Usage): Output to stderr, like others do.

2023-01-22 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftbench,ftgrid,ftmulti,ftview] Accept hexadecimal glyph indices.

 This helps to use charcodes on the command line.

 * src/ftbench.c (main): Use sscanf with "%i".
* src/ftgrid.c (parse_cmdline): Ditto.
* src/ftmulti.c (main): Ditto.

* src/ftview.c (parse_cmdline): Ditto.

2023-01-21 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_init): Polish gray mode.

2023-01-21 Alexei Podtelezhnikov <apodtele@gmail.com>

Edit comments.

2023-01-20 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Explain the blender cache.

2023-01-18 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-17 Werner Lemberg <wl@gnu.org>

Update
all copyright notices.

2023-01-17 Werner Lemberg <wl@gnu.org>

* src/ftinspect/*.[ch]pp: Normalize copyright notices

This allows the use of FreeType's `update-copyright-year` script.

2023-01-17 Werner Lemberg <wl@gnu.org>

Minor comment typos.

2023-01-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Fix -Wswitch warning.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Microoptimization.

* src/ftview.c (parse_cmdline, write_header, Process_Event, parse):
Prioritize easy checks.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Trigger screen updates locally.
(main, status): Cleaned up.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftview.c (Process_Event): Minor refactoring.

2023-01-13 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftview.c (Process_Event): Small harmonization.

2023-01-12 Alexei Podtelezhnikov <apodtele@gmail.com>

 Typos.

2023-01-11
 Alexei Podtelezhnikov <apodtele@gmail.com>

 Minor comment.

2023-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftcommon.c (FTDemo_Draw_Header): Minor.

2023-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/*.c: Pair up `grRefreshSurface` and `grListenSurface` calls.

2023-01-10 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftstring.c (main, write_header): Reset custom header differently.

2023-01-10 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftstring] Fix error reporting.

 * src/ftstring.c (Render_*): Do not return or overwrite errors.
(main): Updated accordingly.

2023-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftview.c: Remove obsolete comments.

2023-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftcommon.c (FTDemo_Draw_Header): Show sizing errors again.

2023-01-08 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftview, ftstring] Prevent locking on broken unsizable fonts.

* src/ftstring.c (Render_Waterfall):
Break on error.
* src/ftview.c (Render_Waterfall): Break on error.

2023-01-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c: Fix a warning.

2023-01-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Decorate opening and sizing errors.

2023-01-03 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c (FTDemo_Draw_Header): Handle invalid `size` objects.

2022-12-07 Werner Lemberg <wl@gnu.org>

* subprojects/zlib.wrap: Micro-update from upstream.

2022-12-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Sync the render mode and the load target.

2022-11-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Honor render mode with FT_LOAD_RENDER.

2022-11-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c: Relocate and undo BBox rotations.

2022-11-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* man/ftbench.1: Minor updates.

2022-11-11 Alexei Podtelezhnikov <apodtele@gmail.com>

*
src/ftbench.c (test_get_bbox): Use `FT_Set_Transform`.

2022-11-11 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Fix up charmap benchmarking.

* src/ftbench.c (main): Parse and process the charmap index option.
(header): Report the active charmap index.

(usage): Document it.
(test_cmap_cache): Call `FTC_CMapCache_Lookup` with correct argument.
(test_cmap_iter): Do not count idle charmaps.

* man/ftbench.1: Document the charmap selection.

2022-10-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Improve error tracking.

* src/ftcommon.c (FTDemo_Error_String): Spin off new function from...
(PanicZ): ... this function.
* src/ftcommon.h (FTDemo_Error_String): Declare it.
* src/ftview.c (Process_Error): Count and track persistent errors.
(Render_*): Use it.
(main): Report the persistent error code and description.

2022-10-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_Stroke): Render bitmaps without stroking.

2022-10-24 Werner Lemberg
<wl@gnu.org>

Replace '1/50th' (and similar entries) with '1/64' in output and comments.

2022-10-20 Werner Lemberg <wl@gnu.org>

* subprojects/zlib.wrap: Update to zlib version 1.2.13.

2022-10-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/x11/grx11.c (gr_x11_surface_{init,done}): Use DefaultGC.

2022-10-07 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/x11/grx11.c (gr_x11_surface_init): Ignore border and colormap.

The colormap is unused. The border is set by a window manager.

2022-10-03 Charlie Jiang <w@chariri.moe>

[ftinspect] Change unclear comments.

* src/ftinspect/engine/fontinfo.hpp,
src/ftinspect/glyphcomponents/glyphcontinuous.cpp: Clearify comments.

* src/ftinspect/maingui.cpp: Actually the left widget does more than

setting the margin, so the comment line about removing the left widget and
layout is removed.

2022-10-03 Charlie Jiang <w@chariri.moe>

* src/ftinspect/engine/engine.cpp: Fix CBDT/CBLC colored fonts.

Add
`FT_LOAD_COLOR` for those fonts.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/widgets/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/panels/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/models/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/glyphcomponents/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/engine/*`.

2022-10-02 Werner Lemberg <wl@gnu.org>

[ftinspect] Format build files for cmake and meson.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Do it.
Also sort entries.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Activate the color layers by default.

Don't deactivate it when color layers are absent. Also fix typo.

* src/ftinspect/panels/settingpanel.cpp: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect]
Fix memory-related crash, and refactor outline-retaining...

graphics items. Also fix some compiler warnings.

* src/ftinspect/glyphcomponents/glyphoutline.cpp,
  src/ftinspect/glyphcomponents/glyphoutline.hpp:
  Don't retain the `FT_Outline*` whose lifetime is bound to the glyph.
  Prepare the path in the ctor so the outline isn't saved.
  Add `GlyphUsingOutline` as the base class for all classes that have to
  retain a `FT_Outline` object.

* src/ftinspect/glyphcomponents/glyphpointnumbers.cpp,
  src/ftinspect/glyphcomponents/glyphpointnumbers.hpp,
  src/ftinspect/glyphcomponents/glyphpoints.cpp,
  src/ftinspect/glyphcomponents/glyphpoints.hpp: Refactored.

* src/ftinspect/engine/engine.hpp, src/ftinspect/panels/singular.hpp,
  src/ftinspect/engine/rendering.hpp
  Add default values to initialize member fields.

* src/ftinspect/panels/singular.cpp:
  Pass the `FT_Library` into the graphics items.

* src/ftinspect/models/fontinfomodels.cpp:
Fix warning.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add transformation and scaling info to the composite glyph view.

Note: Untested since no font with non-1.0 scale subglyphs is found.

* src/ftinspect/engine/fontinfo.cpp, src/ftinspect/engine/fontinfo.hpp:
  Fetch transformation and scaling info from the font.

* src/ftinspect/models/fontinfomodels.cpp,
  src/ftinspect/models/fontinfomodels.hpp:
  Change the "Position" column to "Position and Transformation".
  Display the transformation info.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Improve bitmap display in the glyph details pane.

Now the ppem square is displayed as light gray, ink box as blue,
xy-axis as thin black lines.
Adding ppem square improves displaying of non-spacing glyphs.

* src/ftinspect/panels/glyphdetails.cpp:
  Pass the ppem box to the `GlyphBitmap` widget.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.hpp:
  Add a `placeholderRect`
to store the ppem square info. Layout the glyph
  bitmap on the basis of the ppem square.
  Draw auxiliary lines on the canvas.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Modify the about text and add actual version.

* src/ftinspect/maingui.cpp: As described.

* src/ftinspect/ftinspect.cpp: Pass the actual version.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `dynamicLibraryVersion` func.

2022-09-25 Charlie Jiang <w@chariri.moe>

* src/ftinspect/engine/engine.cpp: Minor formatting.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix random crash when closing fonts.

* src/ftinspect/widgets/tripletselector.cpp: Disallow font indices below 0.
  It seems the CFF driver can't handle this properly.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Font Info" tab.

* src/ftinspect/panels/info.cpp, src/ftinspect/panels/info.hpp:
  New files, add the `InfoTab` class.

* src/ftinspect/engine/fontinfo.cpp,
src/ftinspect/engine/fontinfo.hpp:
  Add `SFNTTableInfo`, `FontBasicInfo`, `FontTypeEntries`, `FontFixedSize`
  and `CompositeGlyphInfo`. The `SFNTTableInfo` and `CompositeGlyphInfo`
  classes retrieve info without the related FreeType API, but directly

parse the font data.

* src/ftinspect/models/fontinfomodels.cpp,
src/ftinspect/models/fontinfomodels.hpp:
New files. Add models for the tables and the tree view in the info tab to
use.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `loadDefaults` function for the composite glyphs view to draw its
small icon.
Add `currentFontHasGlyphName`, `currentFontPSInfo`,
`currentFontPSPrivateInfo` and `currentFontSFNTTableInfo` to obtain info.
Add getters.

* src/ftinspect/engine/fontinfonamesmapping.cpp: New file for name mapping.

* src/ftinspect/engine/fontfilemanager.cpp,
src/ftinspect/engine/fontfilemanager.hpp:
Add `currentReloadDueToPeriodicUpdate` so the composite glyph
tree isn't
refreshed (which is a very expensive process) for the periodic updating of
symbolic font files.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add the font info tab info the main window and wire events.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Comparator View".

* src/ftinspect/panels/comparator.cpp, src/ftinspect/panels/comparator.hpp:
New files, adding the `ComparatorTab`.

* src/ftinspect/panels/settingpanel.cpp,
src/ftinspect/panels/settingpanel.hpp: Add comparator mode.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add comparator tab and modify `switchTab` to prevent unwanted window
resizing, and to fix the tab bar position.
Modify `applySettings` to skip applying for comparator tab.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add left/right click

behaviour to the continuous view.

Left clicking will open the glyph details pane, and right clicking will
switch to the singular tab.

* src/ftinspect/panels/glyphdetails.cpp,
  src/ftinspect/panels/glyphdetails.hpp:
  New files, add the `GlyphDetails` class.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
  src/ftinspect/glyphcomponents/glyphcontinuous.hpp:
  Add `mouseReleaseEvent` event handler which emits the new
  `updateGlyphDetails` and `rightClickGlyph` signals.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.hpp:
  Add `GlyphBitmapWidget` to show the enlarged bitmap.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  Add code to update the details panel, and wire up events.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add code to initialize the glyph details panel, and wire up components and
  events.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25
 Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Continuous View".

Most new features in the continuous view are included in the commit, except
the mouse left (details pane)/right (go to singular) click behaviour.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  New files, the main continuous tab.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
  src/ftinspect/glyphcomponents/glyphcontinuous.hpp:
  New files, adding the `GlyphContinuous` as the actual canvas for
  continuous rendering.

* src/ftinspect/engine/stringrenderer.cpp,
  src/ftinspect/engine/stringrenderer.hpp:
  New files, adding `StringRenderer` to layout the strings and produce
  glyphs for the canvas to draw.

* src/ftinspect/widgets/charmapcombobox.cpp,
  src/ftinspect/widgets/charmapcombobox.hpp:
  New files, add the `CharMapComboBox` widget.

* src/ftinspect/engine/charmap.cppsrc/ftinspect/engine/charmap.hpp:
  New files, adding `CharMapInfo` class.

*
src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add necessary fields and getters for string rendering.
  Retrieve charmap when loading fonts.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the continuous view to the main window.
  Call `ContinuousTab::highlightGlyph` when switching from singular to
  continuous view.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

This is a combination of 2 commits.
This is the 1st commit message:

[ftinspect] Add "Continuous View".

Most new features in the continuous view are included in the commit, except
the mouse left (details pane)/right (go to singular) click behaviour.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
  New files, the main continuous tab.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
  src/ftinspect/glyphcomponents/glyphcontinuous.hpp:

 New files, adding the `GlyphContinuous` as the actual canvas for
  continuous rendering.

* src/ftinspect/engine/stringrenderer.cpp,
  src/ftinspect/engine/stringrenderer.hpp:
  New files, adding `StringRenderer` to layout the strings and produce
  glyphs for the canvas to draw.

* src/ftinspect/widgets/charmapcombobox.cpp,
  src/ftinspect/widgets/charmapcombobox.hpp:
  New files, add the `CharMapComboBox` widget.

* src/ftinspect/engine/charmap.cppsrc/ftinspect/engine/charmap.hpp:
  New files, adding `CharMapInfo` class.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add necessary fields and getters for string rendering.
  Retrieve charmap when loading fonts.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the continuous view to the main window.
  Call `ContinuousTab::highlightGlyph` when switching from singular to
  continuous view.

* src/ftinspect/panels/settingpanel.cpp: Uncomment
functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

This is the commit message #2:

* src/ftinspect/engine/stringrenderer.cpp: Fix infinite loop.

Don't limit the glyph position and exit too early, or the loop in `render`
function won't stop forever. Also, since the string can be moved by the
mouse, there's no point to limit the line position in the canvas viewport.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add SFNT `name` table retrieving.

* src/ftinspect/engine/fontinfo.cpp, src/ftinspect/engine/fontinfo.hpp:
  New files, add `SFNTName` to retrieve `name` table.
  Conversions to `QString` from mainstream encodings are supported.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentFontSFNTNames` and retrieve the `name` table when loading the
  font. Also pass the SFNT name table when loading palettes.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/paletteinfo.cpp:
  Uncomment functional
code to make use of the `name` table.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support MM/GX.

* src/ftinspect/panels/settingpanelmmgx.cpp,
  src/ftinspect/panels/settingpanelmmgx.hpp:
  Add GUI widgets for MM/GX settings.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/mmgx.hpp:
  Add `MMGXAxisInfo` to retrieve axes info. However, the SFNT name table
  isn't implemented, so the SFNT based axis names are unavailable.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `applyMMGXDesignCoords`. Add getters `currentFontMMGXState` and
  `currentFontMMGXAxes`. Info is retrieved when loading font.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp: Uncomment functional code.
  Remove `checkHintingMode` and `checkStemDarkening`. Applying of delayed
  settings is taken care by the `MainGUI`. So emitting `fontReloadNeeded`

simply will do the work.

* src/ftinspect/maingui.cpp: Don't reset the cache so aggressively.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add auxiliary lines for the grid view.

The aux lines will show advance and asc/descender.

* src/ftinspect/glyphcomponents/grid.cpp,
  src/ftinspect/glyphcomponents/grid.hpp: Implement aux lines.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentSizeAscDescPx`.

* src/ftinspect/panels/singular.cpp, src/ftinspect/panels/singular.hpp:
  Pass parameters to the `Grid` graphics item.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support opening files drag-dropping.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Add related code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support opening files via command-line.

* src/ftinspect/engine/fontfilemanager.cpp,
  src/ftinspect/engine/fontfilemanager.hpp:

  Add `loadFromCommandLine` func.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add and call `loadCommandLine` func.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support LCD rendering.

* src/ftinspect/engine/rendering.cpp, src/ftinspect/engine/rendering.hpp:
  Implement `convertLCDToARGB` and `convertLCDVToARGB`.
  Add `lcdUsesBGR` property.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support color layers.

* src/ftinspect/engine/rendering.cpp:
  Add implementation of `tryDirectRenderColorLayers`.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Implement `loadPaletteInfos` and `loadPalette`.
  Add `currentFontHasColorLayers` and a group of getters/setters supporting
  color layer rendering.
  Also reorder fields as the number of fields grows.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp:
  Implement
`populatePalettes` and reorder functions.
  Fix `checkPalette` about combo box enabling state and reset the cache when
  the palette settings change.
  Uncomment functional code.

* src/ftinspect/engine/paletteinfo.cpp,
  src/ftinspect/engine/paletteinfo.hpp: New files adding `PaletteInfo`.
  Retrieving palette names using SFNT name tables is not supported yet.

* src/ftinspect/panels/singular.cpp:
  Call `Engine::loadPalette` when drawing.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support stem darkening.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `setStemDarkening` func.

* src/ftinspect/panels/settingpanel.cpp: Uncomment function code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support tricky fonts.

For tricky fonts, we disable auto-hinter and limit the TT interpreter
version.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:

  Add `currentFontTricky` function and turn off hinting forcibly when the
  user turns it off in the GUI for tricky fonts.

* src/ftinspect/panels/settingpanel.cpp: As described.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support embedded bitmap and bitmap-only fonts.

Bitmap glyphs are already supported in the new rendering engine, so we make
the option effective in the GUI. Also support bitmap-only fonts by coercing
sizes to available ones and force embedded bitmaps.

* src/ftinspect/widgets/fontsizeselector.cpp,
  src/ftinspect/widgets/fontsizeselector.hpp:
  Retrieve fixed sizes info from the engine and coerce to nearest available
  sizes when using bitmap-only fonts.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `embeddedBitmapEnabled` property and `currentFontHasEmbeddedBitmap`,
  `currentFontBitmapOnly` and `currentFontFixedSizes` getters.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

2022-09-25
  Charlie Jiang <w@chariri.moe>

[ftinspect] Refactor `Engine` and fix the singular tab.

This comment brings the new glyph loading and bitmap rendering code.

The bitmap rendering part is in `RenderingEngine` which can be obtained
from the `Engine`. The `Engine` now supports loading the glyph by loading
with image cache and without image cache.
The `loadOutline` function is removed.

Accompanying this change, some new features are introduced as well. Most
notable the improvements in rendering: back/foreground color and gamma,
support bitmap glyphs (not enabled in the UI). Support for LCD and color
layer font is absent yet.

The singular tab is now enabled by uncommented functional code that was
commented in the last commit.

In `Engine`, a `ftFallbackFace_` is introduced for all non-rendering work,
and the old `ftSize_` is only used for rendering. This helps dealing with
non-scalable fonts since we can safely retrieve info with the fallback face.

* src/ftinspect/engine/engine.cpp,
src/ftinspect/engine/engine.hpp:
  Integrate the `RenderingEngine`.
  Change `loadFont` to update the `ftFallbackFace_` as well.
  Change all info-retrieving functions to use `ftFallbackFace_`.
  Add `loadGlyph`, `loadGlyphIntoSlotWithoutCache` and
  `loadGlyphWithoutUpdate`, and remove `loadOutline`.
  Extract code about "get a face object from the cache and do sth."
  into a new function `withFace`.
  Add property `antiAliasingEnabled` and `renderMode` for the rendering
  engine.
  Some minor changes are included.

* src/ftinspect/engine/rendering.cpp, src/ftinspect/engine/rendering.hpp:
  New files, as described.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/panels/singular.cpp: Uncomment functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add the `SingularTab` and related widgets.

This introduces
the new singular tab. However, because the new tab heavily
depend on the new engine structure, it's current not functional. No bitmap
or outline will be displayed. This would be fixed after the `Engine` was
refactored in the next commit.

The new singular tab has the size and glyph index selector moved out as
modular widgets to be reused.

The new scroll and shortcut behaviours are introduced in this commit, which
depend on scroll events introduced in the custom `QGraphicsViewx`.

The infinity panning of grid is implemented mainly via
`SingularTab::updateGrid` and `Grid::updateRect`.

This commit is introducing new features since it would be unfavorable to
"backport" old version of glyph components, and add those new features in
future commits - this is way too complex.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentFontNumberOfGlyphs` and `dpi` functions.

* src/ftinspect/widgets/fontsizeselector.cpp,
  src/ftinspect/widgets/fontsizeselector.hpp:

  This is the new font size selector to replace the old size/DPI/zoom boxes.
  This widget is capable of handling wheel and key events delegated from
  other widgets.
  The support for fixed sizes and bitmap-only font is not yet added.

* src/ftinspect/widgets/glyphindexselector.cpp,
  src/ftinspect/widgets/glyphindexselector.hpp:
  This is the new glyph index selector to replace the old navi buttons.
  This selector is aware of index min/max, consists of a group of navi
  buttons, a text box (actually a spin box without buttons) to directly
  input glyph index.

* src/ftinspect/glyphcomponents/graphicsdefault.cpp,
  src/ftinspect/glyphcomponents/graphicsdefault.hpp:
  This struct contains all default graphical settings (mainly for singular
  view, e.g. the grid line color).

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the new tab into the main window.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.hpp:

  This will now delegate rendering to the engine instead of doing rendering
  itself. However, since the rendering part of the `Engine` is not
  implemented, code initializing `image_` is left commented.
  Also add another constructor for initializing directly from a `QImage`.

* src/ftinspect/glyphcomponents/glyphoutline.cpp,
  src/ftinspect/glyphcomponents/glyphoutline.hpp,
  src/ftinspect/glyphcomponents/glyphpointnumbers.cpp,
  src/ftinspect/glyphcomponents/glyphpointnumbers.hpp,
  src/ftinspect/glyphcomponents/glyphpoints.cpp,
  src/ftinspect/glyphcomponents/glyphpoints.hpp:
  Constructors of those items now accept a `FT_Glyph` instead of
  `FT_Outline`. The conversion is done inside the view, and the view won't
  be displayed if the glyph isn't outline glyph.
  This simplifies the code of `SingularTab`.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rewrite `MainGUI`.

Note:
This commit compiles, but the main view is removed, so you will get a
blank right panel. The singular view will be added back with major changes
in the next commit.

This commit mainly introduces below changes:

1. The original `MainGUI` contains almost all GUI elements. Most of them are
   taken out to modular components. The current `MainGUI` serves only as
   a skeleton provides coordinate between components, greatly shortened.
   It also provides some auxiliary code such as calling to file chooser.
2. The left panel is moved to `SettingPanel` class. The current
   `settingpanel.[ch]pp` are directly modified from the latest code, so they
   contains some options not implemented in the `Engine`.
   Structural code that is only added accompanying later change is removed,
   such as the comparator mode. Such code will be added back with the
   related feature. However, code for unimplemented options are simply
   commented out.
3. The main part is transformed into
a tabbed view. The original code is
   removed. Refactored, it will be added back in the next commit.
4. The navigation buttons (Next/Prev Font/Face/NI) are changed into the new
   triplet-selector, which is a major UI improvement.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: As described.

* src/ftinspect/panels/abstracttab.hpp: Add `AbstractTab` which is an
  interface for all tabs listening for font reloading and repainting.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp:

As described, this is the left panel. This requires intensive reviewing
since many bugs had rooted here.

* src/ftinspect/widgets/tripletselector.cpp,
src/ftinspect/widgets/tripletselector.hpp:
As described, this is the triplet (Font/Subface/NI) selector.
This component is also responsible for repopulating triplet information
and keep up with the font file change (i.e. the
`FontFileManager::currentFileChanged` event is captured here).

*
src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `fontValid` and `namedInstanceName` since `TripletSelector` requires
them. However, they'll subject to change later.

* src/ftinspect/ftinspect.cpp: Remove call to `MainGUI::setDefaults`.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] WIP: Rewrite `MainGUI`.

Note: This commit doesn't compile. This change is splitted into 2 commits
to avoid a complicated diff.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Old version removed.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rename `rendering` dir to `glyphcomponents`.

All classes in `rendering` directory will be responsible for draw
glyphs, either as independent widgets or as `QGraphicsItem`. However, the
actual drawing part will be placed into `RenderingEngine`. Therefore, we
rename it to `glyphcomponents`.

* src/ftinspect/rendering/**: Renamed.

*
src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build,
src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Re-organize custom widgets.

* src/ftinspect/widgets/customwidgets.cpp,

src/ftinspect/widgets/customwidgets.cpp: New files.
Include `QGraphicsViewx`, `ZoomSpinBox` and `UnboundScrollArea` (for later use).

* src/ftinspect/widgets/qspinboxx.hpp, src/ftinspect/widgets/qspinboxx.hpp:
Changed into `ZoomSpinBox` in `customwidgets.cpp`.

* src/ftinspect/widgets/qgraphicsviewx.cpp,
src/ftinspect/widgets/qgraphicsviewx.hpp:
Merged into `customwidgets.cpp`

* src/ftinspect/widgets/qcomboboxx.hpp,
src/ftinspect/widgets/qcomboboxx.cpp: Removed. No longer needed.
We're using custom `QAbstractListModel`'s `flags` func to disable items.

* src/ftinspect/widgets/qpushbuttonx.hpp,
src/ftinspect/widgets/qpushbuttonx.cpp: Removed. No longer needed.
We're using `setButtonNarrowest` in `uihelper.cpp`.

*
src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Updated to use new custom widgets.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Use custom `QAbstractListModel` instead of manually mapping.

In `maingui.cpp`, mapping between `QComboBox` indices and actual FreeType values was done manually. The enabled statuses of individual ComboBox items were also maintained in `maingui.cpp`.

In this commit, those code was moved to seperate custom classes implementating `QAbstractListModel`. All mapping was done there.
Enable/Disable states was maintained in the classes as well.
By doing this, the reason why some items were disabled was made more clear and explicit. Adding more items is easier.

The `QComboBoxx` custom widget is no longer needed since disable flag can be provided by the custom model by overriding the `flags` function.

`SimpleComboBoxModel` is a basic class for Key-Value-DisplayName mapping.
Other models could extend this class if no complicated mapping (e.g. `HintingModeComboBoxModel`) is needed.

* src/ftinspect/models/customcomboboxmodels.cpp,

src/ftinspect/models/customcomboboxmodels.cpp: New files.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
`Engine` now accepts "load target" value of certain anti-aliasing mode
instead of the anti-aliasing enum value. The mapping was moved into
`AntiAliasingComboBoxModel`.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Move all mappings
and enabled/disabled statuses to separate models.
Remove mapping `QHash`es. Use `QComboBox` instead of `QComboBoxx`.

* src/ftinspect/meson.build, src/ftinspect/CMakeLists.txt: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rename all private member variables with an underscore suffix.

(pure mechnical commit)

* src/ftinspect/**: Renaming. Also some variables with abbreviations
were renamed.

This
will enable nicer getter/setters, as discussed in #13.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Refactor `Engine`.

This commit decouples `Engine` so it no longer depends on `MainGUI`.

Because of that, a lot of getters and setters are added to `Engine`, and
`MainGUI` call setters in its `applySettings` function, which makes applying
of the settings lazy (only happen when the glyph repaints).

In the later commits, options will be divided into two types: mostly lazy
ones, and a few eager ones which need to be immediately applied, because
they need the cache to be purged.

Some code in `MainGUI` is moved into `Engine`, as well.

Functions in the `Engine` are re-ordered. Constructor is greatly reduced to
`queryEngine`.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
As described.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:

As described.

* src/ftinspect/ftinspect.cpp: Remove dependency of `Engine` against
`MainGUI`.

2022-09-25
Charlie Jiang <w@chariri.moe>

[ftinspect] Move out font file managing/watching out to a new class.

Introduce the feature that rejects invalid files.

* src/ftinspect/maingui.hpp, src/ftinspect/maingui.cpp: Move `fontList`,
`fontWatcher`, `timer` and other code related to font file managing to
new class `FontFileManager`.

* src/ftinspect/engine.hpp, src/ftinspect/engine.cpp:
`Engine` class now holds `FontFileManager`.
Also, make `MainGUI` open and close fonts indirectly via `Engine`.

* src/ftinspect/fontfilemanager.hpp, src/ftinspect/fontfilemanager.cpp:
New files.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Update build system settings.

* src/ftinspect/CMakeLists.txt: Fix MSVC-only options. Require Qt 5.15 and
enable higher warning level.

* src/ftinspect/meson.build: Set C++ version. Require Qt 5.15.

2022-09-24 Alexei Podtelezhnikov <apodtele@gmail.com>

*
graph/x11/grx11.c (gr_x11_blitter_reset): Minor improvement.

2022-09-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/meson.build: No macOS driver yet.

Fixes #19.

2022-09-17 Alexei Podtelezhnikov <apodtele@gmail.com>

Revert "* src/ftlint.c (Checksum): Accept negative pitch."

This reverts commit bac9a53080b24e76a2dfe8def2b15682135b8454.
The pitch is always positive in the converted bitmap.

2022-09-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Checksum): Accept negative pitch.

2022-09-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Fix for negative pitch.

Reported by Anurag Thakur.

2022-09-15 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Clean up the cache clearance.

Use separate functions to clear the color and channel gradient
caches and call them conditionally instead of passing the switch
around.

* graph/gblender.c (gblender_clear): Separate out...
(gblender_clear_channels): ...
this function.
(gblender_use_channels): Removed.
* graph/gblender.h: Update their declarations.
* graph/gblglblit.c (gblender_blit_init, grSetTargetPenBrush):
Updated to call the above functions and formatted.

2022-09-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdiff.c: Add const qualifier to the executable basename.

2022-09-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Display_New): Handle window titles.
* src/ftcommon.h: Update its prototype.
* src/ftgamma.c, src/ftgrid.c, src/ftsdf.c, src/ftstring.c, src/ftview.c
(main): Updated accordingly.

2022-09-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdiff.c (render_state_draw), src/common.d (ft_strdup): Clean up.

2022-09-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/*.*: Add const qualifier to the executable basename.

2022-09-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grobjs.* (grAlloc): Return void pointer.

2022-09-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Fortify channel cache.

Using signed short offsets in the channel cache will risk to overflow
if the current cache size is to increase. Here we switch to unsigned
index and express it in the cache units.

* graph/gblender.h (GBlenderChanKeyRec): Update `index`.
* graph/gblender.c (gblender_clear, gblender_lookup_channel,
gblender_reset_channel_key): Updated accordingly.

2022-09-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.* (GBlenderRec): Cosmetic changes to cache array.

2022-08-29 shugaley <https://gitlab.freedesktop.org/shugaley>

* src/ftpngout.c (FTDemo_Display_Print): Declare `code` volatile.

Fixes #18.

2022-08-29 Alexei Podtelezhnikov <apodtele@gmail.com>

* Makefile (FTCOMMON_OBJ): Add `graph` dependency, include `rsvg-port`.

2022-08-29 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Rework #ifdef GBLENDER_STORE_BYTES.

This also settles on tripling the number of channel keys, which is
a safe bet in all
circumstances. Quadrupling might only work on
64-bit architectures or with added key structure padding, without
GBLENDER_STORE_BYTES defined.

* graph/gblender.h (GBlenderCell): Change definition.
* graph/gblblit.c (GDST_STOREB): Updated accordingly.
* graph/gblender.c (gblender_clear, gblender_reset_key,
  gblender_lookup, gblender_lookup_channel): Ditto.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Better hash function and a fix.

* graph/gblender.c (gblender_clear): Initialize recently grown array.
(gblender_lookup_channel): Improve hash function.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_lookup): Quest for perfect hash function.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Minor fixes.

(gblender_clear): Initialize with black background, whereas
foreground stays invalid.
(gblender_lookup_channel): Increase cache utilization.

2022-08-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Slight optimization of cached gradients.

This saves about 1% of `ftgrid` execution time.

* graph/gblender.c (gblender_reset_key, gblender_reset_channel_key):
Implement faster gradients, which are rounded anyway.

2022-08-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Rework cache management.

With more complex rendering in `ftgrid`, the old cache management
resulted in excessive clashes and slow `gblender_lookup`. It is
better to replace the clashing entries than to preserve them and
search for an available spot in the table. This saves about 10%
of execution time in `ftgrid` without much effect on the others.

* graph/gblender.c (gblender_lookup): Replace old clashing entries
and hash function.
(gblender_lookup_channel): Ditto.
* graph/gblender.h (GBlenderRec): Remove `stat_clears`.

2022-08-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_lookup*): Count clashes directly.

2022-08-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Count the number of hash clashes.

The hash table lookups take very noticeable time when rendering is
complex like in `ftgrid`. This can help optimize the hash function.

* graph/gblender.h (GBLENDER_STATS): New field for clashes.
* graph/gblender.c (gblender_init, gblender_lookup{,_channel},
gblender_dump_stats): Initialize, collect, and report clashes.

2022-08-18 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Fix mishandling of LCDv formats.

* graph/gblblit.c (gblender_blit)init): Triple the LCDv pitch.
* graph/gblany.h (_gblender_blit_{vrgb,vbgr}_*): Updated accordingly.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c: Minor.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (grBlitGlyphToSurface): Remove redundant check.

The rare empty glyphs will be caught later in `gblender_blit_init`.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table):
Reintroduce linear loops.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table): Updated sRGB ramps.

When we use finite approxination it is more appropriate to use the
actual values for the linear portion instead of the standard ones.

2022-08-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/common.c (utf8_next): Use more efficient algorithm.

2022-08-15 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_String_Set): Refactor.

2022-08-15 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftcommon.c (FTDemo_Make_Encoding_Tag): Refactor.

2022-08-11 Alexei Podtelezhnikov <apodtele@gmail.com>

 * graph/gblender.c (gblender_set_gamma_table): Minor improvements.

2022-08-11 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftcommon.c (FTDemo_Draw_Header): Show non-trivial face index.

 This is a useful hint if a file contains multiple faces.

2022-08-07 Alexei Podtelezhnikov <apodtele@gmail.com>

 *
 src/win32/grwin32.c: Cosmetic updates.

2022-08-06 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftgrid,ftmulti,ftstring,ftview] Document optional size.

 * man/ftgrid.1, man/ftmulti.1, man/ftstring.1, man/ftview.1: Update.
 * src/ftgrid.c, src/ftmulti.c, src/ftstring.c, src/ftview.c: Ditto.

2022-08-05 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftgrid,ftmulti,ftstring,ftview] Make the size optional.

 * src/ftgrid.c (parse_cmdline), src/ftview.c (parse_cmdline),
 src/ftstring.c (parse_cmdline), src/ftmulti.c (main): Fallback on
 a default size if it is missing on the command line.

2022-07-30 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftgrid.c: Sync with freetype.

2022-07-30 Werner Lemberg <wl@gnu.org>

 * src/ftlint.c (main): Check number of glyphs.

 Problem reported by Marc Schönefeld <marc.schoenefeld@gmx.org>.

2022-07-30 Werner Lemberg <wl@gnu.org>

 [ftgrid] Fix memory-related problems.

Reported by Marc Schönefeld <marc.schoenefeld@gmx.org>.

*
src/ftgrid.c (bitmap_scale): Limit bitmap size.
(grid_status_draw_outline): Handle errors in `FT_Get_Glyph`.

2022-07-11 Charlie Jiang <w@chariri.moe>

[meson] Add option to disable librsvg dependency.

As discussed in #14.

Currently, 'librsvg' is used to render OT-SVG glyphs. However, 'librsvg' is
far from simple to build as it requires tons of transitive dependencies,
especially on Windows.

Therefore we introducee a configuration option to switch 'librsvg' on or
off. This is trivial because the source code itself already honors a
`HAVE_LIBRSVG` macro.

* meson_options.txt: Add `librsvg` option (feature), defaulting to
`enabled`.

* meson.build: Honor the option above.

2022-06-28 Charlie Jiang <w@chariri.moe>

[ftinspect] Drop QMake, add CMake.

* src/ftinspect/CMakeLists.txt: Add CMake build file for `ftinspect`.

* src/ftinspect/ftinspect.pro: Remove QMake build file.

Fixes #11

2022-06-28 Charlie Jiang <w@chariri.moe>

* /src/ftinspect/.gitignore: Ignore
Visual Studio specific files.

This is for `ftinspect`.

2022-06-28 Charlie Jiang <w@chariri.moe>

[ftinspect] Eliminate compile warnings.

* src/ftinspect/engine.hpp: Use `uintptr_t` as type for `faceCounter`
instead of `int`.

* src/ftinspect/engine.cpp: Changing all casts to use `FTC_IDType` type
(=`uintptr_t`) we defined.

Fixes #10.

2022-06-21 Hugh McMaster <hugh.mcmaster@outlook.com>

* Makefile: Append CPPFLAGS to CFLAGS so that they work in `graph`.

2022-06-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Hinting_Engine_Change): Minor fix.

2022-06-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Minor.

2022-06-04 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Minor tweaks.

* builds/windows/msvc/ftbench.vcxproj: Do not depend on "common.c".
* src/ftbench.c: Do not include "common.h".
(main): Minor output optimization.

2022-06-03 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (main):
Report filename.

2022-06-03 Alexei Podtelezhnikov <apodtele@gmail.com>

* subprojects/zlib.wrap: Update to zlib version 1.2.12.

2022-06-02 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Indicate memory-mapped fonts.

2022-05-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Create more concise and informative header.

* src/ftbench.c (header): Report face, driver, and target info.
Borrowed from `FTDemo_Get_Info`.
(main): Remove and rearrange output.

2022-05-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Output spaces before units.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Reformat output (cont'd).

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Reformat output.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Check the number of glyphs.

Fixes #8.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

*
graph/win32/grwin32.c: Do not include <string.h>, formatting.

2022-05-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Simplify icon setting further.

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Use `CreateIcon`.

2022-05-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Simplify icon setting.

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Use basic
`CreateBitmap` for color, which seems to work.

2022-05-22 Alexei Podtelezhnikov <apodtele@gmail.com>

This reverts commit 454797135a90.

* graph/win32/grwin32.c (gr_win32_surface_refresh_rectangle): Revert
to fix the 24 bpp rectangle invalidation.

2022-05-19 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_refresh_rectangle): Minor move.

2022-05-01 Werner Lemberg <wl@gnu.org>

* Version 2.12.1 released.
==========

Tag sources with 'VER-2-12-1'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

2022-04-09
Charlie Jiang <w@chariri.moe>

[windows] Fix IME freezing window, don't filter messages by HWND

* graph/win32/grwin32.c (Window_ThreadProc): Remove HWND filter of GetMessage call

2022-04-08 Charlie Jiang <w@chariri.moe>

[windows] Fix some GUI keys not working

* graph/win32/grwin32.c (gr_win32_surface_listen_event, Message_Process): Switch to custom Windows messaage ID.

2022-03-31 Werner Lemberg <wl@gnu.org>

* Version 2.12.0 released.
==========

Tag sources with 'VER-2-12-0'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

* Makefile (dist): Generate `ChangeLog` entries for all commits since
version 2.11.0 (when we stopped creating this file manually).

2022-03-31 Werner Lemberg <wl@gnu.org>

Fix clang++ warnings.

* src/ftsdf.c (event_font_update, write_header, draw), src/rsvg-port.c
(rsvg_port_preset_slot): Add or remove casts.

2022-03-24 Anuj Verma <anuj@womp.xyz>

[ftsdf] Fix segmentation fault.

* src/ftsdf.c (draw):
Use integer to avoid overflow while reverse
looping `j`.

2022-02-19 Werner Lemberg <wl@gnu.org>

/: Replace header macros with file names.

We already did the same some time ago in the FreeTye library.

Also remove redundant inclusion of some header macros.

2022-02-19 Ben Wagner <bungeman@chromium.org>

[ftview] Handle foreground COLR.

* src/ftview.c (Render_All): handle 0xFFFF `layer_color_idx` without
crashing.

2022-02-11 Werner Lemberg <wl@gnu.org>

[ftdump] Emit PS dictionary info for option `-n` if available.

* src/ftdump.c: Include `FT_TYPE1_TABLES_H`.
(Print_Array): New function.
(Print_FontInfo_Dictionary, Print_FontPrivate_Dictionary): New functions.
(main): Use them.
(usage): Updated.

2022-02-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Add `rsvg` port to project files.

* builds/windows/msvc/ftgamma.vcxproj: Updated.
* builds/windows/msvc/ftgrid.vcxproj: Updated.
* builds/windows/msvc/ftstring.vcxproj: Updated.
* builds/windows/msvc/ftview.vcxproj:
Updated.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Minor tweaks.

* src/ftgrid.c (scale_bitmap): Take the buffer immediately.
(DO_BITMAP): Minor.
* src/ftcommon.c (FTDemo_Glyph_To_Bitmap): Clarify ownership.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (bitmap_scale): Implement BGRA scaling.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Implement embedded bitmap toggle.

* src/ftgrid.c (grid_status_draw_outline): Undo the last change.
(Process_Event): Implement the embedded bitmap toggle and shift
some other toggle keys for consistency.
(event_help, main): Updated.

2022-02-01 Werner Lemberg <wl@gnu.org>

src/ftgrid.c (grid_status_draw_outline): Enable embedded bitmaps.

Previously, bitmap-only fonts were displayed but bitmap strikes were not.

2022-01-30 Werner Lemberg <wl@gnu.org>

src/ftinspect/ftinspect.pro (PKGCONFIG, LIBS): Add 'librsvg'.

2022-01-28 Werner
Lemberg <wl@gnu.org>

* meson.build: We need 'librsvg' version 2.46.0 or newer.

Older versions don't have function `rsvg_handle_get_intrinsic_dimensions`.

2022-01-26 Werner Lemberg <wl@gnu.org>

* meson.build: Fix typo.

2022-01-25 Werner Lemberg <wl@gnu.org>

Use 'librsvg' conditionally.

* src/ftcommon.c, src/rsvg-port.c: Guard SVG code with `HAVE_LIBRSVG`.

2022-01-23 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c (FTDemo_New): Update to recent FreeType change.

2022-01-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Reshuffle some headers.

* graph/grobjs.c, graph/grobjs.h, graph/win32/grwin32.c: Updated.

2022-01-20 Moazin Khatti <moazinkhatri@gmail.com>

Prototype SVG support.

* src/rsvg-port.c, src/rsvg-port.h: New files, providing SVG rendering hooks
using the 'librsvg' library.

* src/ftcommon.c: Include `FT_OTSVG_H` and `rsvg-port.h`.
(FTDemo_New): Set SVG renderer hooks.
(FTDemo_Glyph_To_Bitmap): Also accept SVG glyph format.

* Makefile:
Update for recent FreeType changes; the library's `configure`
script now tests for 'librsvg'.
(COMPILE): Updated to use `FT_DEMO_CFLAGS` for normal compilation, and
manually adding flags for 'librsvg' otherwise.
Update all users.
(LINK_LIBS): Updated to use `FT_DEMO_LDFLAGS` for normal compilation, and
manually adding flags for 'librsvg' otherwise.
(COMMON_OBJ): Updated
(rsvg-port): New rule.

* meson.build (librsvg_dep): New dependency.
(ftcommon_lib): Add `rsvg-port.*` files and update dependencies.

2022-01-16 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Fix up the key event handling.

* graph/win32/grwin32.c (key_translators): Do not translate the keys
that Windows translates. We used to by-pass the system.
(gr_win32_surface_listen_event): Move custom translations from here...
(Message_Process): ... to here, which reduces the message posting.

2022-01-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Use lighter gridlines to improve readability.

*
src/ftgrid.c (grid_status_colors, grid_status_alt_colors): Updated.

2022-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (write_header): Show page with glyph number or code.

2022-01-11 Werner Lemberg <wl@gnu.org>

Update all copyright notices.

2022-01-11 Werner Lemberg <wl@gnu.org>

* subprojects/libpng.wrap, subprojects/zlip.wrap: Update from upstream.

2022-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Remove double dereferencing.

2022-01-08 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Fix negative pitch issues.

Some cropping issues were identified by forcing unusual negative
pitch in glyphs. This fixes those issues and removes some unused
fields.

* graph/gblblit.c (GBlenderBlitRec): Remove unused fields.
* graph/gblblit.c (graph/gblblit.c): Revise negative pitch code.
* graph/gblender.h (gblender_dump_stats): Remove macro semicolon.

2022-01-07 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c
(icon_span): Fix undefined left-shift behaviour.

2022-01-07 Werner Lemberg <wl@gnu.org>

graph/grobjs.c (grFindColor): Fix undefined left-shift behaviour.

2022-01-01 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Consolidate resizing calls.

Suggested by Dmitry Timoshkov.

* graph/win32/grwin32.c (gr_win32_surface_listen_event): Purge
obsolete WM_RESIZE.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c: Logging and formatting clean-ups.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Implement smooth resizing.

The window creation and the message loop has to be put in a separate
thread in order to achieve smooth resizing. Othrewise, the modal
loop cannot be interrupted to redraw the canvas. The main thread
also has a loop to receive the reposted messages, to update the
canvas and send WM_PAINT back via UpdateWindow. After this update
the win32 resizing feels similar to the X11 resizing.

*
graph/win32/grwin32.c (grWin32Surface): Store the host thread id.
(gr_win32_surface_init): Spin off `CreateWindow` from here...
(Window_ThreadProc): ... to here and run the window message loop.
(Message_Process): Updated to repost messages to the host thread.
(gr_win32_surface_listen_event): Run the host thread message loop.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_init): Check allocations.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Done): Flush stdout for mintty.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Improve surface initialization.

* graph/win32/grwin32.c (gr_win32_surface_init): Allocate bitmaps by
calling `gr_win32_surface_resize`.

2021-12-11 Ben Wagner <bungeman@chromium.org>

[ftbench] Free stroker when done.

LeakSanitizer reported that the stroker object was being leaked.
Properly free it with FT_Stroker_Done. (!14)

* src/ftbench.c
(test_stroke): Free stroker.

2021-12-02 Werner Lemberg <wl@gnu.org>

* Version 2.11.1 released.
==========================

Tag sources with 'VER-2-11-1'.

* README: Updated.
* meson.build: Updated.

* man/*.1: Updated.

* ChangeLog: Renamed to ...
* ChangeLog.old: ... this.

* Makefile (version_tag, CHANGELOG_SCRIPT): New variables.
(dist): Generate `ChangeLog` file with all commits since last release.

2021-11-30 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Minor clean-ups.

* graph/gblender.c (gblender_reset_key): Remove unnecessary masks.
* graph/gblany.h (*vrgb*, *vbgr*): Remove redundant casts.

2021-11-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Remove dummy fallback.

2021-11-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/*.*: Remove legacy blitter ghosts.

2021-11-24 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Revise function arguments.

* graph/gblblit.c (grSetTargetGamma, grSetTargetPenBrush):
Input
surface instead of bitmap as more appropriate.
* graph/graph.h (grSetTargetGamma, grSetTargetPenBrush): Update
decarations.
* graph/grdevice.c, src/ftcommon.c, src/ftdiff.c: Update callers.

2021-11-22 Werner Lemberg <wl@gnu.org>

Whitespace, typos, other minor issues.

2021-11-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Show empty charmaps if error, including UVS.

* src/ftcommon.c (get_last_char): Call `FT_Set_Charmap` and handle
its errors effectively setting `num_indices` to 0.
* src/ftview.c (event_index_change, event_encoding_change): Updated.

2021-11-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Charmaps): Do not iterate UVS charmaps.

2021-11-20 Werner Lemberg <wl@gnu.org>

* graph/*: Fix clang compilation warnings.

Add casts for signed vs. unsigned issues.

2021-11-20 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Report the last shown index or charcode.

Together with the index or charcode
limit, it gives a sense of the
portion of the font under review. This is reported at the bottom-
left corner.

* src/ftview.c (main): Pass the last shown index instead of error.
(Render_*): Return the last shown index, charcode, or -1.
(write_header): Receive and display the last shown index or charcode.

2021-11-18 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (get_last_char): Speed up sparse convergence.

2021-11-17 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Report the last available index or charcode.

* src/ftcommon.c (get_last_char): Implement the binary search for
the last charcode using `FT_Get_Next_Char`.
(FTDemo_Set_Current_Font): Set the number of indices accordingly.
* src/ftview.c (write_header): Display the last charcode or index.

2021-11-17 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Complete removal of legacy blitter.

This switches the remaing monochrome rendering of headers to the main
blender and deletes the
legacy blitter. The old blitter can handle
exotic target surfaces like monochrome or 4-bit bitmaps. Anything
beyond the alpha blender can do.

* graph/grfont.c (grWriteCellChar, grWriteCellString): Switch from
`grBlitGlyphToBitmap` to `grBlitGlyphToSurface`.
* graph/grblit.[ch]: Delete files.
* graph/graph.h, graph/grconfig.h: Remove references.

* graph/rules.mk, graph/meson.build, vms_make.com,
builds/windows/msvc/migs.vcxproj: Update build scripts.

2021-11-15 Werner Lemberg <wl@gnu.org>

* src/*: Fix clang warnings.

All of them are minor and belong to one of the following categories:

* signedness casts
* corrected `printf` signatures
* missing `static` keyword for local functions

2021-11-15 Werner Lemberg <wl@gnu.org>

[ftbench] Fix clang warnings.

* src/ftbench.c (first_index, last_index): Make these two global variables
signed, to be of the same type as `incr_index` (which can be positive or
negative).
Update all related code.

2021-11-15 Alexei Podtelezhnikov
<apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Add background.

2021-11-15 Alexei Podtelezhnikov <apodtele@gmail.com>

Minor.

2021-11-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Use `props` to share dependencies.

Merges !12 from @ubawurinna.

* builds/windows/msvc/ft2demos.props: Consolidate FreeType dependencies.
* builds/windows/msvc/*.vcxproj: Updated.

2021-10-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] New project and solution files.

These files can be used to build selected FreeType demo programs
using Microsoft Visual C++. FreeType should be compiled in the
parallel folder with freetype.lib available in freetype\objs\
for compilation. The executables will be delivered into

freetype-demos\bin\ and expect freetype.dll there as well.

* builds/windows/msvc/ft2demos.sln: Solution file.
* builds/windows/msvc/*.vcxproj: Project files.

2021-10-26 Alexei Podtelezhnikov <apodtele@gmail.com>

*
Makefile: Remove obsolete rule.

2021-10-26 Alexei Podtelezhnikov <apodtele@gmail.com>

* Makefile: Reduce FT2_BUILD_FREETYPE usage

Public macro FT_FACE_DRIVER_NAME utilized in d01c79af9838 makes
FT2_BUILD_LIBRARY unnecassary in most cases.

* src/ftinspect/ftinspect.pro: Ditto.

2021-10-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grBlitClean): Fix warnings.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grGetSaturation, grBlitClean): Dead fixes.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

Minor.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grGetSaturation): Fix return value.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Avoid unnecessary memory zeroing.

* graph/x11/grx11.c (gr_x11_surface_init): Call `malloc` explicitly.
* graph/grblit.c (grGetSaturation, grGetConversion): Call `malloc`
and `memset` explicitly even though this code is unused.

2021-10-18
 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grdevice.c (grWriteSurface{Char,String}): Use GR_FONT_SIZE.

2021-10-18 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Do not zero a new bitmap.

The `grNewBitmap` function is mostly used to allocate and resize
canvas, which is shortly flooded with a background color. There is
no need to zero it.

* graph/grobjs.c (grNewBitmap): Always call `realloc` directly,
which does not initialize the buffer.
* graph/grobjs.c (grNewBitmap): Update description.

2021-10-13 Hugh McMaster <hugh.mcmaster@outlook.com>

graph/x11/rules.mk: Use standard pkg-config variable naming

2021-10-13 Hugh McMaster <hugh.mcmaster@outlook.com>

graph/x11/rules.mk: Use pkg-config to find the X11 headers and library

2021-10-07 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftinspect/engine/engine.cpp: Include FT_MODULE_H.

Fixes #2.

2021-10-05 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* vms_make.com: Updated to include
more demos.

2021-10-03 Alexei Podtelezhnikov <apodtele@gmail.com>

Synchronize with FreeType.

* src/ftcommon.c (FTDemo_Hinting_Engine_Change, FTDemo_Get_Info):
Use new public `FT_FACE_DRIVER_NAME` macro.
* src/ftdump.c (Print_Type): Ditto.
* src/ftdiff.c (process_event, render_state_draw): Ditto.
* src/ftinspect/engine/engine.cpp (loadFont): Ditto.

2021-10-01 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* graph/grtypes.h [__VMS]: Accomodate non-compliant C99.

2021-10-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_device_init): Use neutral background.

2021-09-30 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

 * vms_make.com, src/mlgetopt.h [VMS]: Updated.

2021-09-30 Alexei Podtelezhnikov <apodtele@gmail.com>

 * graph/grtypes.h: Don't give up on <stdint.h>.

2021-09-16 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftdump.c (Print_Name): Reformat font revision.

2021-09-10 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftdump.c
(Print_Name): Ignore negative pre-epoch time.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftdump.c (Print_Name): Avoid negative pre-epoch time.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftdump.c (Print_Programs, Print_Glyfs): Handle no-data glyphs.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftdump.c (Print_Programs, Print_Glyfs): Generalize messages.

2021-08-26 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftstring] Loop through a custom string if present.

 * src/ftstring.c (Sample): Use the initial pointer for a custom string.
(parse_cmdline): Assing the pointer here if any.
(event_text_change): Loop through the pointer if set.
(main): Minor tweak.

2021-07-24 Werner Lemberg <wl@gnu.org>

 * meson.build: Build `ttdebug`.

 Problem reported by Andreas Radke <andreas.radke@mailbox.org>.

2021-07-24 Werner Lemberg <wl@gnu.org>

 * meson.build: Sort executable rules.

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/ChangeLog
No license file was found, but licenses were detected in source scan.

/*
* This is a cheap replacement for getopt() because that routine is not
* available on some platforms and behaves differently on other platforms.
* This code was written from scratch without looking at any other
* implementation.
*
* This code is hereby expressly placed in the public domain.
* mleisher@crl.nmsu.edu (Mark Leisher)
* 10 October 1997
*
* Last update 2019-06-10.
*/

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/mlgetopt.c
No license file was found, but licenses were detected in source scan.

/**
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**/

Found in path(s):

* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/mac/getargv.c
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*
*  grwin32.c  graphics driver for Win32 platform
*
*  This is the driver for displaying inside a window under Win32,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Antoine Leca.
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
*
*  Borrowing liberally from the other FreeType drivers.
*
*  This file is part of the FreeType project, and may only be used
*  modified and distributed under the terms of the FreeType project
*  license, LICENSE.TXT. By continuing to use, modify or distribute
*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
***************************************************************************/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/win32/grwin32.c
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*
*  grbeos.c  graphics driver for BeOS platform.            0.1
*
*  This is the driver for displaying inside a window under BeOS,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Michael Pfeiffer.
*  Copyright (C) 2001-2023 by
*  Michael Pfeiffer
*
*  This file is part of the FreeType project, and may only be used
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*  license, LICENSE.TXT. By continuing to use, modify or distribute
*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
***************************************************************************/
```

Found in path(s):

* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/beos/grbeos.cpp
No license file was found, but licenses were detected in source scan.

```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
*
*  This code is hereby expressly placed in the public domain.
*  mleisher@crl.nmsu.edu (Mark Leisher)
*  10 October 1997
*/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/mlgetopt.h
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*
*  grbatch.c  Batch processing driver.
*
*  This driver maintains the image in memory without displaying it,
*  used by the graphics utility of the FreeType test suite.
*
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*
***************************************************************************/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/batch/grbatch.c
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```
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
*
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*
* See md5.c for more information.
*/

Found
 in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/md5.h
No license file was found, but licenses were detected in source scan.

/***
*
* grx11.h graphics driver for X11 (header)
*
* This is the driver for displaying inside a window under X11,
* used by the graphics utility of the FreeType test suite.
*
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*
***/

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* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/x11/grx11.h
No license file was found, but licenses were detected in source scan.

/***
*
* grmac.c graphics driver for MacOS platform.
*
* This is the driver for displaying inside a window under MacOS,
* used by the graphics utility of the FreeType test suite.

```
*
*  Largely written by Just van Rossum, but derived from grwin32.c.
*  Copyright (C) 1999-2023 by
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*  David Turner, Robert Wilhelm, and Werner Lemberg.
*
*  Borrowing liberally from the other FreeType drivers.
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*
*************************************************************************/
```

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* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/mac/grmac.c
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*
* rsvg-port.c
*
*   Librsvg-based hook functions for OT-SVG rendering in FreeType
*   (implementation).
*
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*
*/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/rsvg-port.c
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```
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```

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* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/ftinspect/maingui.cpp
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*
* rsvg-port.h
*
*   Librsvg based hook functions for OT-SVG rendering in FreeType
*   (headers).
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*
*/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/rsvg-port.h
No license file was found, but licenses were detected in source scan.

```
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
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 *
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
```

* unsigned integer data type will do), there's no compile-time endianness
* configuration, and the function prototypes match OpenSSL's. No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible. Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/md5.c
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/* Author: David Turner <david@freetype.org>
*
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*/

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/grswizzle.c

1.290 usb-ids 2024.03.18-1

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1.291 xkeyboard-config 2.41-2ubuntu1.1

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1.292 wget 1.21.4-1ubuntu4.1

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Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding
Source as a System Library, need not be
included in conveying the object code work.

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suffice to ensure that the continued functioning of the modified object
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if neither you nor any third party retains the ability to install
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.297 libseccomp 2.5.5-1ubuntu3.1

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1.299 bzip2 1.0.8-5.1build0.1

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.300 e2fsprogs 1.47.0-2.4~exp1ubuntu4.1

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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

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That's all there is to it!

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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1.301 d-bus 1.14.10-4ubuntu4.1

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1.305 libslirp 4.7.0-1ubuntu3

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1.306 libdeflate 1.19-1build1.1

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1.307 gsettings-desktop-schemas 46.1-0ubuntu1

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

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Any executables containing that work also fall under Section 6,
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to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy

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1.310 icu 74.2-1ubuntu3.1

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```
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

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

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

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

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

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

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



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

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

## Versioned libraries rules

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

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

##  Bind internal references

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

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

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

## End BSD-specific setup
```

1.311 libndp 1.8-1fakesync1ubuntu0.24.04.1

1.311.1 Available under license :

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1.312 python 3.12.3-0ubuntu2

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

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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1.313 tmux 3.4-1ubuntu0.1

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1.322 gojsonschema v1.2.1-0.20201027075954-b076d39a02e5

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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the
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Otherwise, if the work is a derivative of the Library, you may distribute the object
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(24) - RISC-V Semihosting (riscv-* targets)

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1.328 pyyaml 6.0.2

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1.329 cffi 1.17.1

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1.331 libusb 2:1.0.27-1

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1.334 cpu-checker 0.7-1.3build2

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1.335 libxi 2:1.1.4-3build1

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1.337 libxss 1:1.2.3-1build3

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1.338 procps 2:4.0.4-4ubuntu3.2

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```
#[cfg(target_os = "freebsd")]
use crate::Error;
use crate::{Errno, NixPath, Result};
use libc::c_int;
#[cfg(target_os = "freebsd")]
use libc::{c_char, c_uint, c_void};
#[cfg(target_os = "freebsd")]
use std::{
  borrow::Cow,
  ffi::{CStr, CString},
  fmt, io,
  marker::PhantomData,
};

libc_bitflags!(
  /// Used with [`Nmount::nmount`].
  pub struct MntFlags: c_int {
    /// ACL support enabled.
    #[cfg(any(target_os = "netbsd", target_os = "freebsd"))]
    #[cfg_attr(docsrs, doc(cfg(all())))]
    MNT_ACLS;
    /// All I/O to the file system should be done asynchronously.
    MNT_ASYNC;
    /// dir should instead be a file system ID encoded as FSID:val0:val1.
    #[cfg(target_os = "freebsd")]
    #[cfg_attr(docsrs, doc(cfg(all())))]
```

```
        MNT_BYFSID;
        /// Force a read-write mount even if the file system appears to be
        /// unclean.
        MNT_FORCE;
        /// GEOM journal support enabled.
        #[cfg(target_os = "freebsd")]
         #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_GJOURNAL;
        /// MAC support for objects.
        #[cfg(any(target_os = "macos", target_os = "freebsd"))]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_MULTILABEL;
        /// Disable read clustering.
        #[cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_NOCLUSTERR;
        /// Disable write clustering.
        #[cfg(any(target_os = "dragonfly", target_os = "freebsd"))]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_NOCLUSTERW;
        /// Enable NFS version 4 ACLs.
        #[cfg(target_os = "freebsd")]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_NFS4ACLS;
        /// Do not update access times.
        MNT_NOATIME;
        /// Disallow program execution.
        MNT_NOEXEC;
        /// Do not honor setuid or setgid bits on files when executing them.
        MNT_NOSUID;
        /// Do not follow symlinks.
        #[cfg(any(target_os
    = "dragonfly", target_os = "freebsd"))]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_NOSYMFOLLOW;
        /// Mount read-only.
        MNT_RDONLY;
        /// Causes the vfs subsystem to update its data structures pertaining to
        /// the specified already mounted file system.
        MNT_RELOAD;
        /// Create a snapshot of the file system.
        ///
        /// See [mksnap_ffs(8)](https://www.freebsd.org/cgi/man.cgi?query=mksnap_ffs)
        #[cfg(any(target_os = "macos", target_os = "freebsd"))]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_SNAPSHOT;
        /// Using soft updates.
        #[cfg(any(
```

```
            target_os = "dragonfly",
            target_os = "freebsd",
            target_os = "netbsd",
            target_os = "openbsd"
        ))]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_SOFTDEP;
        /// Directories with the SUID bit set chown new files to their own
        /// owner.
        #[cfg(any(target_os
 = "dragonfly", target_os = "freebsd"))]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_SUIDDIR;
        /// All I/O to the file system should be done synchronously.
        MNT_SYNCHRONOUS;
        /// Union with underlying fs.
        #[cfg(any(
            target_os = "macos",
            target_os = "freebsd",
            target_os = "netbsd"
        ))]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_UNION;
        /// Indicates that the mount command is being applied to an already
        /// mounted file system.
        MNT_UPDATE;
        /// Check vnode use counts.
        #[cfg(target_os = "freebsd")]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        MNT_NONBUSY;
    }
);

/// The Error type of [`Nmount::nmount`].
///
/// It wraps an [`Errno`], but also may contain an additional message returned
/// by `nmount(2)`.
#[cfg(target_os = "freebsd")]
#[derive(Debug)]
pub struct NmountError {
    errno: Error,
    errmsg: Option<String>,
}

#[cfg(target_os
 = "freebsd")]
impl NmountError {
    /// Returns the additional error string sometimes generated by `nmount(2)`.
```

```
  pub fn errmsg(&self) -> Option<&str> {
    self.errmsg.as_deref()
  }

  /// Returns the inner [`Error`]
  pub const fn error(&self) -> Error {
    self.errno
  }

  fn new(error: Error, errmsg: Option<&CStr>) -> Self {
    Self {
      errno: error,
      errmsg: errmsg.map(CStr::to_string_lossy).map(Cow::into_owned),
    }
  }
}

#[cfg(target_os = "freebsd")]
impl std::error::Error for NmountError {}

#[cfg(target_os = "freebsd")]
impl fmt::Display for NmountError {
  fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
    if let Some(errmsg) = &self.errmsg {
      write!(f, "{:?}: {}: {}", self.errno, errmsg, self.errno.desc())
    } else {
      write!(f, "{:?}: {}", self.errno, self.errno.desc())
    }
  }
}

#[cfg(target_os = "freebsd")]
impl From<NmountError> for io::Error
 {
  fn from(err: NmountError) -> Self {
    err.errno.into()
  }
}

/// Result type of [`Nmount::nmount`].
#[cfg(target_os = "freebsd")]
pub type NmountResult = std::result::Result<(), NmountError>;

/// Mount a FreeBSD file system.
///
/// The `nmount(2)` system call works similarly to the `mount(8)` program; it
/// takes its options as a series of name-value pairs.  Most of the values are
/// strings, as are all of the names.  The `Nmount` structure builds up an
```

```
/// argument list and then executes the syscall.
///
/// # Examples
///
/// To mount `target` onto `mountpoint` with `nullfs`:
/// ```
/// # use nix::unistd::Uid;
/// # use ::sysctl::{CtlValue, Sysctl};
/// # let ctl = ::sysctl::Ctl::new("vfs.usermount").unwrap();
/// # if !Uid::current().is_root() && CtlValue::Int(0) == ctl.value().unwrap() {
/// #     return;
/// # };
/// use nix::mount::{MntFlags, Nmount, unmount};
/// use std::ffi::CString;
/// use tempfile::tempdir;
///
/// let mountpoint = tempdir().unwrap();
///
 let target = tempdir().unwrap();
///
/// let fstype = CString::new("fstype").unwrap();
/// let nullfs = CString::new("nullfs").unwrap();
/// Nmount::new()
///     .str_opt(&fstype, &nullfs)
///     .str_opt_owned("fspath", mountpoint.path().to_str().unwrap())
///     .str_opt_owned("target", target.path().to_str().unwrap())
///     .nmount(MntFlags::empty()).unwrap();
///
/// unmount(mountpoint.path(), MntFlags::empty()).unwrap();
/// ```
///
/// # See Also
/// * [`nmount(2)`](https://www.freebsd.org/cgi/man.cgi?query=nmount)
/// * [`nullfs(5)`](https://www.freebsd.org/cgi/man.cgi?query=nullfs)
#[cfg(target_os = "freebsd")]
#[cfg_attr(docsrs, doc(cfg(all())))]
#[derive(Debug, Default)]
pub struct Nmount<'a> {
  // n.b. notgull: In reality, this is a list that contains
  //               both mutable and immutable pointers.
  //               Be careful using this.
  iov: Vec<libc::iovec>,
  is_owned: Vec<bool>,
  marker: PhantomData<&'a ()>,
}

#[cfg(target_os = "freebsd")]
#[cfg_attr(docsrs,
```

```
 doc(cfg(all())))]
impl<'a> Nmount<'a> {
  /// Helper function to push a slice onto the `iov` array.
  fn push_slice(&mut self, val: &'a [u8], is_owned: bool) {
      self.iov.push(libc::iovec {
          iov_base: val.as_ptr() as *mut _,
          iov_len: val.len(),
      });
      self.is_owned.push(is_owned);
  }

  /// Helper function to push a pointer and its length onto the `iov` array.
  fn push_pointer_and_length(
      &mut self,
      val: *const u8,
      len: usize,
      is_owned: bool,
  ) {
      self.iov.push(libc::iovec {
          iov_base: val as *mut _,
          iov_len: len,
      });
      self.is_owned.push(is_owned);
  }

  /// Helper function to push a `nix` path as owned.
  fn push_nix_path<P: ?Sized + NixPath>(&mut self, val: &P) {
      val.with_nix_path(|s| {
          let len = s.to_bytes_with_nul().len();
          let ptr = s.to_owned().into_raw() as *const u8;

          self.push_pointer_and_length(ptr,
 len, true);
      })
      .unwrap();
  }

  /// Add an opaque mount option.
  ///
  /// Some file systems take binary-valued mount options.  They can be set
  /// with this method.
  ///
  /// # Safety
  ///
  /// Unsafe because it will cause `Nmount::nmount` to dereference a raw
  /// pointer.  The user is responsible for ensuring that `val` is valid and
  /// its lifetime outlives `self`!  An easy way to do that is to give the
  /// value a larger scope than `name`
```

```
    ///
    /// # Examples
    /// ```
    /// use libc::c_void;
    /// use nix::mount::Nmount;
    /// use std::ffi::CString;
    /// use std::mem;
    ///
    /// // Note that flags outlives name
    /// let mut flags: u32 = 0xdeadbeef;
    /// let name = CString::new("flags").unwrap();
    /// let p = &mut flags as *mut u32 as *mut c_void;
    /// let len = mem::size_of_val(&flags);
    /// let mut nmount = Nmount::new();
    /// unsafe { nmount.mut_ptr_opt(&name,
p, len) };
    /// ```
    pub unsafe fn mut_ptr_opt(
        &mut self,
        name: &'a CStr,
        val: *mut c_void,
        len: usize,
    ) -> &mut Self {
        self.push_slice(name.to_bytes_with_nul(), false);
        self.push_pointer_and_length(val.cast(), len, false);
        self
    }

    /// Add a mount option that does not take a value.
    ///
    /// # Examples
    /// ```
    /// use nix::mount::Nmount;
    /// use std::ffi::CString;
    ///
    /// let read_only = CString::new("ro").unwrap();
    /// Nmount::new()
    ///     .null_opt(&read_only);
    /// ```
    pub fn null_opt(&mut self, name: &'a CStr) -> &mut Self {
        self.push_slice(name.to_bytes_with_nul(), false);
        self.push_slice(&[], false);
        self
    }

    /// Add a mount option that does not take a value, but whose name must be
    /// owned.
    ///
```

```
  ///
  /// This has higher runtime cost than [`Nmount::null_opt`], but is useful
  /// when the name's lifetime doesn't
outlive the `Nmount`, or it's a
  /// different string type than `CStr`.
  ///
  /// # Examples
  /// ```
  /// use nix::mount::Nmount;
  ///
  /// let read_only = "ro";
  /// let mut nmount: Nmount<'static> = Nmount::new();
  /// nmount.null_opt_owned(read_only);
  /// ```
  pub fn null_opt_owned<P: ?Sized + NixPath>(
      &mut self,
      name: &P,
  ) -> &mut Self {
      self.push_nix_path(name);
      self.push_slice(&[], false);
      self
  }

  /// Add a mount option as a [`CStr`].
  ///
  /// # Examples
  /// ```
  /// use nix::mount::Nmount;
  /// use std::ffi::CString;
  ///
  /// let fstype = CString::new("fstype").unwrap();
  /// let nullfs = CString::new("nullfs").unwrap();
  /// Nmount::new()
  ///     .str_opt(&fstype, &nullfs);
  /// ```
  pub fn str_opt(&mut self, name: &'a CStr, val: &'a CStr) -> &mut Self {
      self.push_slice(name.to_bytes_with_nul(), false);
      self.push_slice(val.to_bytes_with_nul(),
false);
      self
  }

  /// Add a mount option as an owned string.
  ///
  /// This has higher runtime cost than [`Nmount::str_opt`], but is useful
  /// when the value's lifetime doesn't outlive the `Nmount`, or it's a
  /// different string type than `CStr`.
  ///
```

```
/// # Examples
/// ```
/// use nix::mount::Nmount;
/// use std::path::Path;
///
/// let mountpoint = Path::new("/mnt");
/// Nmount::new()
///     .str_opt_owned("fspath", mountpoint.to_str().unwrap());
/// ```
pub fn str_opt_owned<P1, P2>(&mut self, name: &P1, val: &P2) -> &mut Self
where
    P1: ?Sized + NixPath,
    P2: ?Sized + NixPath,
{
    self.push_nix_path(name);
    self.push_nix_path(val);
    self
}

/// Create a new `Nmount` struct with no options
pub fn new() -> Self {
    Self::default()
}

/// Actually mount the file system.
pub fn nmount(&mut self, flags: MntFlags) -> NmountResult {
     const ERRMSG_NAME: &[u8] = b"errmsg\0";
    let mut errmsg = vec![0u8; 255];

    // nmount can return extra error information via a "errmsg" return
    // argument.
    self.push_slice(ERRMSG_NAME, false);

    // SAFETY: we are pushing a mutable iovec here, so we can't use
    //         the above method
    self.iov.push(libc::iovec {
        iov_base: errmsg.as_mut_ptr() as *mut c_void,
        iov_len: errmsg.len(),
    });

    let niov = self.iov.len() as c_uint;
    let iovp = self.iov.as_mut_ptr();
    let res = unsafe { libc::nmount(iovp, niov, flags.bits) };
    match Errno::result(res) {
        Ok(_) => Ok(()),
        Err(error) => {
            let errmsg = match errmsg.iter().position(|&x| x == 0) {
                None => None,
```

```
                Some(0) => None,
                Some(n) => {
                    let sl = &errmsg[0..n + 1];
                    Some(CStr::from_bytes_with_nul(sl).unwrap())
                }
            };
            Err(NmountError::new(error, errmsg))
        }
    }
  }
}

#[cfg(target_os = "freebsd")]
impl<'a> Drop for Nmount<'a> {
  fn drop(&mut self) {
    for (iov, is_owned) in self.iov.iter().zip(self.is_owned.iter()) {
      if *is_owned {
        // Free the owned string.  Safe because we recorded ownership,
        // and Nmount does not implement Clone.
        unsafe {
          drop(CString::from_raw(iov.iov_base as *mut c_char));
        }
      }
    }
  }
}

/// Unmount the file system mounted at `mountpoint`.
///
/// Useful flags include
/// * `MNT_FORCE` -     Unmount even if still in use.
#[cfg_attr(
  target_os = "freebsd",
  doc = "
* `MNT_BYFSID` -    `mountpoint` is not a path, but a file system ID
                encoded as `FSID:val0:val1`, where `val0` and `val1`
                are the contents of the `fsid_t
 val[]` array in decimal.
                The file system that has the specified file system ID
                will be unmounted.  See
                [`statfs`](crate::sys::statfs::statfs) to determine the
                `fsid`.
"
)]
pub fn unmount<P>(mountpoint: &P, flags: MntFlags) -> Result<()>
where
  P: ?Sized + NixPath,
{
```

```
  let res = mountpoint.with_nix_path(|cstr| unsafe {
    libc::unmount(cstr.as_ptr(), flags.bits)
  })?;

  Errno::result(res).map(drop)
}
```

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```
!<arch>
/               1516160780  0     0     0       260       `
H&&

__C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_a_iname_head_C__Users_Peter_Code_win
api_rs_x86_64_lib_libwinapi_oemlicense_aRemoveDemoAppLicense__imp_RemoveDemoAppLicenseAddDemo
AppLicense__imp_AddDemoAppLicensedgbabt.o/      1516160780  0     0     100666  638       `
d$.text
P`.data@P.bssP.idata$4@0.idata$5@0.idata$7@0OEMLicense.dll.filegfake.text.data.bss.idata$4.idata$5.idata$7L_
_C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_a_inamedgbabh.o/      1516160780  0     0
100666  744       `
d6.text P`.data@P.bssP.idata$2@0.idata$5@0.idata$4@0
.filegfakehnamefthunk.text.data.bss.idata$2.idata$4.idata$5J_head_C__Users_Peter_Code_winapi_rs_x86_64_lib_l
ibwinapi_oemlicense_a__C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_a_inamedgbabs000
01.o/  1516160780  0     0     100666  694       `
d
.text,` 0`.data@0.bss0.idata$74j0.idata$58t0.idata$4@~0.idata$6H %RemoveDemoAppLicense
.text.data.bss.idata$7.idata$5.idata$4.idata$64zRemoveDemoAppLicense__imp_RemoveDemoAppLicense_head_C
__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_adgbabs00000.o/
  1516160780  0     0     100666  684       `
d
.text,\ 0`.data@0.bss0.idata$74f0.idata$58p0.idata$4@z0.idata$6H %AddDemoAppLicense
```

.text.data.bss.idata$7.idata$5.idata$4.idata$6.tAddDemoAppLicense__imp_AddDemoAppLicense_head_C__Users_Peter_Code_winapi_rs_x86_64_lib_libwinapi_oemlicense_a
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```
use crate::errno::Errno;
use crate::sys::signal::Signal;
use crate::unistd::Pid;
use crate::Result;
use cfg_if::cfg_if;
use libc::{self, c_int};
use std::ptr;

pub type RequestType = c_int;

cfg_if! {
  if #[cfg(any(target_os = "dragonfly",
               target_os = "freebsd",
               target_os = "macos",
               target_os = "openbsd"))] {
     #[doc(hidden)]
     pub type AddressType = *mut ::libc::c_char;
  } else {
     #[doc(hidden)]
     pub type AddressType = *mut ::libc::c_void;
  }
}

libc_enum! {
  #[repr(i32)]
  /// Ptrace Request enum defining the action to be taken.
  #[non_exhaustive]
  pub enum Request {
     PT_TRACE_ME,
     PT_READ_I,
     PT_READ_D,
     #[cfg(target_os = "macos")]
     #[cfg_attr(docsrs, doc(cfg(all())))]
     PT_READ_U,
     PT_WRITE_I,
     PT_WRITE_D,
     #[cfg(target_os = "macos")]
     #[cfg_attr(docsrs, doc(cfg(all())))]
     PT_WRITE_U,
     PT_CONTINUE,

  PT_KILL,
     #[cfg(any(any(target_os = "dragonfly",
                target_os = "freebsd",
                target_os = "macos"),
                all(target_os = "openbsd", target_arch = "x86_64"),
                all(target_os = "netbsd", any(target_arch = "x86_64",
                                    target_arch = "powerpc"))))]
```

```
        PT_STEP,
        PT_ATTACH,
        PT_DETACH,
        #[cfg(target_os = "macos")]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        PT_SIGEXC,
        #[cfg(target_os = "macos")]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        PT_THUPDATE,
        #[cfg(target_os = "macos")]
        #[cfg_attr(docsrs, doc(cfg(all())))]
        PT_ATTACHEXC
    }
}

unsafe fn ptrace_other(
    request: Request,
    pid: Pid,
    addr: AddressType,
    data: c_int,
) -> Result<c_int> {
    Errno::result(libc::ptrace(
        request as RequestType,
        libc::pid_t::from(pid),
        addr,
        data,
    ))
    .map(|_| 0)
}

///
 Sets the process as traceable, as with `ptrace(PT_TRACEME, ...)`
///
/// Indicates that this process is to be traced by its parent.
/// This is the only ptrace request to be issued by the tracee.
pub fn traceme() -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_TRACE_ME, Pid::from_raw(0), ptr::null_mut(), 0)
            .map(drop)
    }
}

/// Attach to a running process, as with `ptrace(PT_ATTACH, ...)`
///
/// Attaches to the process specified by `pid`, making it a tracee of the calling process.
pub fn attach(pid: Pid) -> Result<()> {
    unsafe {
        ptrace_other(Request::PT_ATTACH, pid, ptr::null_mut(), 0).map(drop)
```

```
  }
}

/// Detaches the current running process, as with `ptrace(PT_DETACH, ...)`
///
/// Detaches from the process specified by `pid` allowing it to run freely, optionally delivering a
/// signal specified by `sig`.
pub fn detach<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {
  let data = match sig.into() {
     Some(s) => s as c_int,
      None => 0,
  };
  unsafe {
     ptrace_other(Request::PT_DETACH, pid, ptr::null_mut(), data).map(drop)
  }
}

/// Restart the stopped tracee process, as with `ptrace(PTRACE_CONT, ...)`
///
/// Continues the execution of the process with PID `pid`, optionally
/// delivering a signal specified by `sig`.
pub fn cont<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {
  let data = match sig.into() {
     Some(s) => s as c_int,
     None => 0,
  };
  unsafe {
     // Ignore the useless return value
     ptrace_other(Request::PT_CONTINUE, pid, 1 as AddressType, data)
        .map(drop)
  }
}

/// Issues a kill request as with `ptrace(PT_KILL, ...)`
///
/// This request is equivalent to `ptrace(PT_CONTINUE, ..., SIGKILL);`
pub fn kill(pid: Pid) -> Result<()> {
  unsafe {
     ptrace_other(Request::PT_KILL, pid, 0 as AddressType, 0).map(drop)
  }
}

/// Move the stopped tracee process forward by a single step as with
/// `ptrace(PT_STEP,
 ...)`
///
/// Advances the execution of the process with PID `pid` by a single step optionally delivering a
/// signal specified by `sig`.
```

```
///
/// # Example
/// ```rust
/// use nix::sys::ptrace::step;
/// use nix::unistd::Pid;
/// use nix::sys::signal::Signal;
/// use nix::sys::wait::*;
/// // If a process changes state to the stopped state because of a SIGUSR1
/// // signal, this will step the process forward and forward the user
/// // signal to the stopped process
/// match waitpid(Pid::from_raw(-1), None) {
///     Ok(WaitStatus::Stopped(pid, Signal::SIGUSR1)) => {
///         let _ = step(pid, Signal::SIGUSR1);
///     }
///     _ => {},
/// }
/// ```
#[cfg(any(
  any(target_os = "dragonfly", target_os = "freebsd", target_os = "macos"),
  all(target_os = "openbsd", target_arch = "x86_64"),
  all(
    target_os = "netbsd",
    any(target_arch = "x86_64", target_arch = "powerpc")
  )
))]
pub fn step<T: Into<Option<Signal>>>(pid: Pid, sig: T) -> Result<()> {
  let
 data = match sig.into() {
    Some(s) => s as c_int,
    None => 0,
  };
  unsafe {
    ptrace_other(Request::PT_STEP, pid, ptr::null_mut(), data).map(drop)
  }
}

/// Reads a word from a processes memory at the given address
// Technically, ptrace doesn't dereference the pointer.  It passes it directly
// to the kernel.
#[allow(clippy::not_unsafe_ptr_arg_deref)]
pub fn read(pid: Pid, addr: AddressType) -> Result<c_int> {
  unsafe {
    // Traditionally there was a difference between reading data or
    // instruction memory but not in modern systems.
    ptrace_other(Request::PT_READ_D, pid, addr, 0)
  }
}
```

```
/// Writes a word into the processes memory at the given address
// Technically, ptrace doesn't dereference the pointer.  It passes it directly
// to the kernel.
#[allow(clippy::not_unsafe_ptr_arg_deref)]
pub fn write(pid: Pid, addr: AddressType, data: c_int) -> Result<()> {
  unsafe { ptrace_other(Request::PT_WRITE_D, pid, addr, data).map(drop)
 }
}
```

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limitations under the License.
//! `ioctl` opcode behavior for BSD platforms.

use super::{Direction, RawOpcode};

pub(super) const fn compose_opcode(
    dir: Direction,
    group: RawOpcode,
    num: RawOpcode,
    size: RawOpcode,
) -> RawOpcode {
    let dir = match dir {
        Direction::None => NONE,
        Direction::Read => READ,
        Direction::Write => WRITE,
        Direction::ReadWrite => READ | WRITE,
    };

    dir | num | (group << 8) | ((size & IOCPARAM_MASK) << 16)
}

// `IOC_VOID`
pub const NONE: RawOpcode = 0x2000_0000;
// `IOC_OUT` ("out" is from the perspective of the kernel)

pub const READ: RawOpcode = 0x4000_0000;
// `IOC_IN`
pub const WRITE: RawOpcode = 0x8000_0000;
pub const IOCPARAM_MASK: RawOpcode = 0x1FFF;
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1.347 unzip 6.0-28ubuntu4.1

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- -

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
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```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
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  *
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```

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```
   *  MacBinaryIII.h
   *
   *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
   *
   *  Basic encoding and decoding of Macintosh files to the
   *  MacBinary III spec.
   * ---------------------------------------------------------------------
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```
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```

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

Despite the fact that our "normal" code has been entirely rewritten and by default
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Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
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1.348 firewalld 2.1.1-1

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1.351 libxv 2:1.0.11-1.1build1

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1.354 libx11 2:1.8.7-1build1

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1.355 ksmtuned 4.20150326

1.355.1 Available under license :

Upstream sources: https://git.centos.org/summary/rpms!qemu-kvm

ksmtuned:
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 Author: Dan Kenigsberg <danken@redhat.com>

ksmctl.c:
 Start/stop KSM, for systemd.
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 Written by Paolo Bonzini <pbonzini@redhat.com>.
 Based on the original sysvinit script by Dan Kenigsberg <danken@redhat.com>
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1.356 libxtst 2:1.2.3-1.1build1

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1.357 numad 0.5+20150602-8

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/*

numad - NUMA Daemon to automatically bind processes to NUMA nodes
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*/

Found in path(s):
* /numad-0-5-20150602-orig-1-tar-gz/numad-0.5+20150602/numad.c

1.358 diffutils 1:3.10-1build1

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1.362 ntfs-3g 1:2022.10.3-1.2ubuntu3

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1.366 libxdmcp 1:1.1.3-0ubuntu6

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1.367 msr-tools 1.3-5build1

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1.368 ethtool 1:6.7-1build1

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1.371 libxxf86vm 1:1.1.4-1build4

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1.373 thin-provisioning-tools 0.9.0-2ubuntu5.1

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The source code for a work means the preferred form of the work for

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1.376 file 1:5.45-3build1

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1.377 gawk 1:5.2.1-2build3

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[This is the first released version of the library GPL. It is
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1.380 appstream 1.0.2-1build6

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1.383 tk 8.6.14-1build1

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1.384 python-linux-procfs 0.6.3-1.1build1

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1.388 httpx 0.28.1

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---

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
        traditional one-character options, and GNU'ish
        --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs

shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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1.398 bcg729 1.1.1-2build1

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

Any executables containing that work also fall under Section 6,
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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
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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copyright notice for the Library among them, as well as a reference
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of these things:

a) Accompany
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machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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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
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use
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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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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
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4. You may copy and distribute the Library (or a portion or
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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
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

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

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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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man/fmtcheck.3bsd
man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c
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src/strtonum.c
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man/expand_number.3bsd
man/flopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
src/expand_number.c
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src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
 src/getentropy_solaris.c
src/getentropy_win.c
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1.411 nghttp2 1.59.0-1ubuntu0.2

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1.415 libunwind 1.6.2-3build1.1

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1.416 libdrm 2.4.122-1~ubuntu0.24.04.1

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* Arm Framebuffer Compression (AFBC) modifiers
*
* AFBC is a proprietary lossless image compression protocol and format.
* It provides fine-grained random access and minimizes the amount of data
* transferred between IP blocks.
*
* AFBC has several features which may be supported and/or used, which are
* represented using bits in the modifier. Not all combinations are valid,
* and different devices or use-cases may support different combinations.
*
* Further information on the use of AFBC modifiers can be found in
* Documentation/gpu/afbc.rst
*/
/*
* Arm Fixed-Rate Compression (AFRC) modifiers
*
* AFRC is a proprietary fixed rate image compression protocol and format,
* designed to provide guaranteed bandwidth and memory footprint
* reductions
 in graphics and media use-cases.
*
* AFRC buffers consist of one or more planes, with the same components
* and meaning as an uncompressed buffer using the same pixel format.
*
* Within each plane, the pixel/luma/chroma values are grouped into
* "coding unit" blocks which are individually compressed to a
* fixed size (in bytes). All coding units within a given plane of a buffer

```
* store the same number of values, and have the same compressed size.
*
* The coding unit size is configurable, allowing different rates of compression.
*
* The start of each AFRC buffer plane must be aligned to an alignment granule which
* depends on the coding unit size.
*
* Coding Unit Size   Plane Alignment
* ---------------   ---------------
* 16 bytes          1024 bytes
* 24 bytes          512  bytes
* 32 bytes          2048 bytes
*
* Coding units are grouped into paging tiles. AFRC buffer dimensions must be aligned
* to a multiple of the paging tile dimensions.
* The dimensions
 of each paging tile depend on whether the buffer is optimised for
* scanline (SCAN layout) or rotated (ROT layout) access.
*
* Layout   Paging Tile Width   Paging Tile Height
* ------   -----------------   ------------------
* SCAN     16 coding units     4 coding units
* ROT      8  coding units     8 coding units
*
* The dimensions of each coding unit depend on the number of components
* in the compressed plane and whether the buffer is optimised for
* scanline (SCAN layout) or rotated (ROT layout) access.
*
* Number of Components in Plane   Layout      Coding Unit Width   Coding Unit Height
* -----------------------------   ---------   -----------------   ------------------
* 1                               SCAN        16 samples          4 samples
* Example: 16x4 luma samples in a 'Y' plane
*          16x4 chroma 'V' values, in the 'V' plane of a fully-planar YUV buffer
* -----------------------------   ---------   -----------------   ------------------
* 1
                                  ROT         8 samples           8 samples
* Example: 8x8 luma samples in a 'Y' plane
*          8x8 chroma 'V' values, in the 'V' plane of a fully-planar YUV buffer
* -----------------------------   ---------   -----------------   ------------------
* 2                               DONT CARE   8 samples           4 samples
* Example: 8x4 chroma pairs in the 'UV' plane of a semi-planar YUV buffer
* -----------------------------   ---------   -----------------   ------------------
* 3                               DONT CARE   4 samples           4 samples
* Example: 4x4 pixels in an RGB buffer without alpha
* -----------------------------   ---------   -----------------   ------------------
* 4                               DONT CARE   4 samples           4 samples
* Example: 4x4 pixels in an RGB buffer with alpha
*/
```

```
/*
* Amlogic Video Framebuffer Compression modifiers
*
* Amlogic uses a proprietary lossless image compression protocol and format
 * for their hardware video codec accelerators, either video decoders or
* video input encoders.
*
* It considerably reduces memory bandwidth while writing and reading
* frames in memory.
*
* The underlying storage is considered to be 3 components, 8bit or 10-bit
* per component YCbCr 420, single plane :
* - DRM_FORMAT_YUV420_8BIT
* - DRM_FORMAT_YUV420_10BIT
*
* The first 8 bits of the mode defines the layout, then the following 8 bits
* defines the options changing the layout.
*
* Not all combinations are valid, and different SoCs may support different
* combinations of layout and options.
*/
/*
* 64K_S is the same for GFX9/GFX10/GFX10_RBPLUS and hence has GFX9 as canonical
* version.
*/
```

Found in path(s):
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/drm_fourcc.h
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/jpeg_tests.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drm.c

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```
/* drmsl.c -- Skip list test
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh.  Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/
```

Found in path(s):
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/drmsl.c
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```
/* xf86drmSL.c -- Skip list support
```

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*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/

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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmSL.c
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- state.xml   (18940 bytes, from 2016-09-06 14:14:12)
- common.xml   (20583 bytes, from 2016-09-06 14:14:12)
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The release criteria for libdrm is essentially "if you need a release,
make one". There is no designated release engineer or maintainer.
Anybody is free to make a release if there's a certain feature or bug
fix they need in a released version of libdrm.

When new ioctl definitions are merged into drm-next, we will add
support to libdrm, at which point we typically create a new release.
However, this is up to whoever is driving the feature in question.

Follow these steps to release a new version of libdrm:

 1) Bump the version number in meson.build. We seem to have settled for
    2.4.x as the versioning scheme for libdrm, so just bump the micro
    version.

 2) Run `ninja -C builddir/ dist` to generate the tarballs.
    Make sure that the version number of the tarball name in
    builddir/meson-dist/ matches the number you bumped to. Move that
    tarball to the libdrm repo root for the release script to pick
 up.

 3) Push the updated main branch with the bumped version number:

 git push origin main

assuming the remote for the upstream libdrm repo is called origin.

4) Use the release.sh script from the xorg/util/modular repo to
upload the tarballs to the freedesktop.org download area and
create an announce email template. The script takes one argument:
the path to the libdrm checkout. So, if a checkout of modular is
at the same level than the libdrm repo:

./modular/release.sh libdrm

This copies the two tarballs to freedesktop.org and creates
libdrm-2.4.16.announce which has a detailed summary of the
changes, links to the tarballs, MD5 and SHA1 sums and pre-filled
out email headers. Fill out the blank between the email headers
and the list of changes with a brief message of what changed or
what prompted this release. Send out the email and you're done!

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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/tegra.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/meson.build
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/nouveau/nouveau.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/write_bmp.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/bof.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic41.h
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/host1x.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic30.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic-clear.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic41.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/syncpt-wait.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic-flip.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic42.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic40.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic42.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic.c
*
 /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/syncpt-timeout.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic30.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic-blit.c

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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/etnaviv_cmd_stream_test.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/etnaviv/etnaviv_gpu.c

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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/kms.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/format.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/pattern.h

* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/common.h
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*   Keith Whitwell <keith@tungstengraphics.com>
*/

Found in path(s):
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/amdgpu_drm.h
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/amdgpu/amdgpu_bo.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/amdgpu/amdgpu_internal.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/amdgpu/amdgpu_gpu_info.c
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/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*- linux-c -*-
* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com
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*   Jeff Hartmann <jhartmann@valinux.com>
*   Keith Whitwell <keith@tungstengraphics.com>
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/mga_drm.h
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/*
* sync abstraction
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```
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Contributing to libdrm
======================

Submitting Patches
------------------

Patches should be sent to dri-devel@lists.freedesktop.org, using git
send-email. For patches only touching driver specific code one of the driver
mailing lists (like amd-gfx@lists.freedesktop.org) is also appropriate. See git
documentation for help:

http://git-scm.com/documentation

Since dri-devel is a very busy mailing list please use --subject-prefix="PATCH
libdrm" to make it easier to find libdrm patches. This is best done by running

  git config --local format.subjectprefix "PATCH libdrm"

The first line of a commit message should contain a prefix indicating what part
```

is affected by the patch followed by one sentence that describes the change. For
examples:

  amdgpu: Use uint32_t i in amdgpu_find_bo_by_cpu_mapping

The body of the commit message should describe what the patch changes and why,
and also note any particular
 side effects. For a recommended reading on
writing commit messages, see:

http://who-t.blogspot.de/2009/12/on-commit-messages.html

Your patches should also include a Signed-off-by line with your name and email
address. If you're not the patch's original author, you should also gather
S-o-b's by them (and/or whomever gave the patch to you.) The significance of
this is that it certifies that you created the patch, that it was created under
an appropriate open source license, or provided to you under those terms. This
lets us indicate a chain of responsibility for the copyright status of the code.
For more details:

https://developercertificate.org/

We won't reject patches that lack S-o-b, but it is strongly recommended.

Review and Merging

Patches should have at least one positive review (Reviewed-by: tag) or
indication of approval (Acked-by: tag) before merging. For any code shared
between drivers this is mandatory.

Please note that kernel/userspace API header files
 have special rules, see
include/drm/README.

Coding style in the project loosely follows the CodingStyle of the linux kernel:

https://www.kernel.org/doc/html/latest/process/coding-style.html?highlight=coding%20style

Commit Rights

Commit rights will be granted to anyone who requests them and fulfills the
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- Submitted a few (5-10 as a rule of thumb) non-trivial (not just simple
 spelling fixes and whitespace adjustment) patches that have been merged
 already. Since libdrm is just a glue library between the kernel and userspace

drivers, merged patches to those components also count towards the commit criteria.

- Are actively participating on discussions about their work (on the mailing list or IRC). This should not be interpreted as a requirement to review other peoples patches but just make sure that patch submission isn't one-way communication. Cross-review is still highly encouraged.

- Will be regularly contributing further patches. This includes regular contributors to other parts of the open source graphics stack who only do the oddball rare patch within libdrm itself.

- Agrees to use their commit rights in accordance with the documented merge criteria, tools, and processes.

To apply for commit rights ("Developer" role in gitlab) send a mail to dri-devel@lists.freedesktop.org and please ping the maintainers if your request is stuck.

Committers are encouraged to request their commit rights get removed when they no longer contribute to the project. Commit rights will be reinstated when they come back to the project.

Maintainers and committers should encourage contributors to request commit rights, as especially junior contributors tend to underestimate their skills.

Code of Conduct

Please be aware the fd.o Code of Conduct also applies to libdrm:

https://www.freedesktop.org/wiki/CodeOfConduct/

See the gitlab project owners for contact details of the libdrm maintainers.

Abuse of commit rights, like engaging in commit fights or willfully pushing patches that violate the documented merge criteria, will also be handled through the Code of Conduct enforcement process.

Happy hacking!

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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/CONTRIBUTING.rst
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/gr2d-fill.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/drm-test-tegra.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/drm-test-tegra.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/drm-test.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/openclose.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/drm-test.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/ttmtest/src/xf86dristr.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/ttmtest/src/xf86dri.h
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/msm/msm_ringbuffer.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/kgsl/kgsl_bo.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/msm/msm_priv.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/kgsl/kgsl_pipe.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/kgsl/kgsl_ringbuffer.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/msm/msm_device.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/msm/msm_pipe.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/kgsl/kgsl_priv.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/msm/msm_bo.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmMode.c
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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping
* Created: Sun Apr 18 09:35:45 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized

* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution. There are two potentially interesting things
* about this implementation:
*
* 1) The table is power-of-two sized. Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation
 uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*
* [Hanson97] David R. Hanson. C Interfaces and Implementations:
* Techniques for Creating Reusable Software. Reading, Massachusetts:
 * Addison-Wesley, 1997.
*
* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:
* Sorting and Searching. Reading, Massachusetts: Addison-Wesley, 1973.
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April
* 1988, pp. 446-457.
*
*/

Found in path(s):
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/hash.c
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmHash.c
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/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
* Created: Mon Apr 19 08:28:13 1999 by faith@precisioninsight.com

```
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
* 2^31-1.
*
* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated.
  [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
* If PRNGs are used for simulation, the period of the current
* implementation may be too short.  [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M.  [LE90 and Sch92] also provide information on
```

```
* long-period PRNGs.
*
* REFERENCES
*
* [Knuth81] Donald E. Knuth. The Art of Computer Programming.  Volume 2:
* Seminumerical Algorithms.  Reading, Massachusetts: Addison-Wesley, 1981.
*
* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators".  CACM 31(6), June 1988, pp. 742-774.
*
* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10,
* October 1990, pp. 85-97.
*
* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.
*
* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence
 Generator for 32-Bit
* CPUs".  Dr. Dobb's Journal 17(2), February 1992, pp. 34, 37-38, 40.
*
* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer.  In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
* Number Generators". CACM 36(7), July 1993, pp. 105-110.
*
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```

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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmRandom.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/amdgpu_stress.c
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```
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/shader_code_gfx9.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/shader_code_gfx11.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/shader_code_hang.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/cp_dma_tests.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/exynos/exynos_drm.c
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* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/omap/omap_drm.h
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/omap/omap_drmif.h
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1.426 jinja 3.1.6

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1.427 xfsprogs 6.6.0-1ubuntu2.1

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1.429 rsync 3.2.7-1ubuntu1.2

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1.435 bcrypt 4.3.0

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1.437 dns-root-data 2024071801~ubuntu0.24.04.1

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1.438 httpcore 1.0.9

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1.439 rsyslog 8.2312.0-3ubuntu9.1

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1.444 grub2 2.12-1ubuntu7.3

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

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

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

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

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

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

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Thanks to the many outside volunteers who have worked under Guido's
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1.451 mako 1.3.10

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1.452 six 1.17.0

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1.453 pydantic-strict-partial 0.6.2

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1.454 gitdb 4.0.12

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1.456 h11 0.16.0

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1.457 python-lxml 5.4.0

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1.462 pcre2 10.42-4ubuntu2.1

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Version 2.1, February 1999

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lib/libgss/g_accept_sec_context.c
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lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

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

and the initial implementation of incremental propagation, including
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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1.470 lodash-es 4.17.21

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1.472 @kyvg/vue3-notification 3.4.1

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1.474 netns v0.0.5

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1.476 ssh v0.3.8

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1.477 libxpm 1:3.5.17-1build2

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1.478 libxfont 1:2.0.6-1build1

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1.479 attr 1:2.5.2-1build1.1

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1.480 xfonts-encodings 1:1.0.5-0ubuntu2

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1.482 xfonts-base 1:1.0.5+nmu1

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Subject: Re: XZ utils for Debian
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1.490 gmp 2:6.3.0+dfsg-2ubuntu6.1

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The current ubuntu release can be found at:
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The Debian tree is maintained with "git" at:
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1.494 x11vnc 0.9.16-10

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1.504 uvicorn 0.34.3

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1.506 jackd2 1.9.21~dfsg-3ubuntu3

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---

opensl_io.c:
Android OpenSL input/output module (header)
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1.511 libnvme 1.8-3ubuntu1

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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.

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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Because of this blurred distinction, using the ordinary General
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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
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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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John R. Hauser
2018 January 20

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Key Dates

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* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html
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==========

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2. Your commit message must include your "Signed-off-by" signature,
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3. Your "Contributed-under" message explicitly states that the
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===
= Change Description / Commit Message / Patch Email =
===

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your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
line following [Repository/Branch PATCH]. The remaining portion of the
commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
This identifier should only be provided for repositories other than
'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
identifier should only be provided for branches other than 'edk2/master'.
For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or

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* "Module" is a short identifier for the affected code or documentation. For
example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
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```
=======================================================
= Change Description / Commit Message / Patch Email =
=======================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change.
Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
made under the terms of the contribtion agreement. This
agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
by their real/legal name and their email address.

==========
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==========

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October 28, 1997
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1.516 boost1.83 1.83.0-2.1ubuntu3.1

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*/

#ifndef BOOST_PREDEF_OS_BSD_H
#define BOOST_PREDEF_OS_BSD_H

/* Special case: OSX will define BSD predefs if the sys/param.h
* header is included. We can guard against that, but only if we
* detect OSX first. Hence we will force include OSX detection
* before doing any BSD detection.
*/
#include <boost/predef/os/macos.h>

#include <boost/predef/version_number.h>
#include <boost/predef/make.h>

/* tag::reference[]
= `BOOST_OS_BSD`

http://en.wikipedia.org/wiki/Berkeley_Software_Distribution[BSD] operating system.

BSD has various branch operating systems possible and each detected
individually. This detects the following variations and sets a specific
version number macro to match:

* `BOOST_OS_BSD_DRAGONFLY` http://en.wikipedia.org/wiki/DragonFly_BSD[DragonFly BSD]
* `BOOST_OS_BSD_FREE` http://en.wikipedia.org/wiki/Freebsd[FreeBSD]
*
 `BOOST_OS_BSD_BSDI` http://en.wikipedia.org/wiki/BSD/OS[BSDi BSD/OS]
* `BOOST_OS_BSD_NET` http://en.wikipedia.org/wiki/Netbsd[NetBSD]
* `BOOST_OS_BSD_OPEN` http://en.wikipedia.org/wiki/Openbsd[OpenBSD]

NOTE: The general `BOOST_OS_BSD` is set in all cases to indicate some form
of BSD. If the above variants is detected the corresponding macro is also set.

```
[options="header"]
|===
| {predef_symbol} | {predef_version}

| `BSD` | {predef_detection}
| `+_SYSTYPE_BSD+` | {predef_detection}

| `BSD4_2` | 4.2.0
| `BSD4_3` | 4.3.0
| `BSD4_4` | 4.4.0
| `BSD` | V.R.0
|===
*/ // end::reference[]

#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#ifndef BOOST_OS_BSD
#define BOOST_OS_BSD BOOST_VERSION_NUMBER_NOT_AVAILABLE
#endif

#if !defined(BOOST_PREDEF_DETAIL_OS_DETECTED) && ( \
  defined(BSD) || \
  defined(_SYSTYPE_BSD)
 \
  )
#   undef BOOST_OS_BSD
#   include <sys/param.h>
#   if !defined(BOOST_OS_BSD) && defined(BSD4_4)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,4,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD4_3)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,3,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD4_2)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,2,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD)
#       define BOOST_OS_BSD BOOST_PREDEF_MAKE_10_VVRR(BSD)
#   endif
#   if !defined(BOOST_OS_BSD)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER_AVAILABLE
#   endif
#endif
```

```
#if BOOST_OS_BSD
#   define BOOST_OS_BSD_AVAILABLE
#   include <boost/predef/detail/os_detected.h>
#endif

#define BOOST_OS_BSD_NAME "BSD"

#endif

#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#include <boost/predef/detail/test.h>
BOOST_PREDEF_DECLARE_TEST(BOOST_OS_BSD,BOOST_OS_BSD_NAME)
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[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

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

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

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

.Converting an existing MPL Sequence into an mp_list
```
using L = mpl::copy<Sequence, mpl::back_inserter<mp11::mp_list<>>>::type;
```
```

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William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)
Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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  <p class="copyright">
    1963, 1964, 1965 Jane Doe
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  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
 </body>
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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
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1.519 spice 0.15.1-1build2

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1.520 python-zstandard 0.22.0-1build1

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1.521 pyudev 0.24.0-1

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

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

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

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

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

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

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

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

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

user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

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

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

7. You may place library facilities that are a work based on the
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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
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Sections above.

b) Give prominent notice with the combined library of the fact
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1.532 annotated-types 0.7.0

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1.533 pythonurllib 2.0.7-1ubuntu0.2

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1.534 libxcrypt 1:4.4.36-4build1

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

it.

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
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Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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Many improvements to the libsensors configuration file scanner.
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Andre Adrian's echo cancellation implementation is licensed under a less
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While
 we attempt to provide a summary here, it is the ultimate responsibility of
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1.541 orc 1:0.4.38-1ubuntu0.1

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1.542 xorg 1:7.7+23ubuntu3

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1.543 google-go-cmp v0.7.0

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1.544 nspr 2:4.35-1.1build1

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1.547 linux-atm 1:2.5.1-5.1build1

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years, to give any third party, for a charge no more than your
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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
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an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
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code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate

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

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

Preamble

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To protect your rights, we need to make restrictions that forbid
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These restrictions translate to certain responsibilities for you if
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you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making
changes to the library and recompiling
it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software
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software will individually obtain patent licenses, thus in effect
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we have made it clear that any patent must
be licensed for everyone's
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Most GNU software, including some libraries, is covered by the ordinary
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designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in

a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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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

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

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

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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:

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must itself be a software library.

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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.

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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
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

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b) Give prominent notice with the combined library of the fact that part of it is a work based
on the Library, and explaining
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Ackeret, Matt
Adler, Mark
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Andric, Dimitry
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Benali, Elias
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Manner, Rbert
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Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Albuquerque, Pedro

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
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1.552 gzip 1.12-1ubuntu3.1

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif
```

/*

```
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
```

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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regexp/jimregexp.[ch]:

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Subsequently modified by:

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2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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1.555 libssh 0.10.6-2ubuntu0.1

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```
/*
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"
```

```
#if defined (__alpha__) || defined (__powerpc__) || \
  defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

  /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
  * which occupy space at the end of each track and/or cylinder.
  */
 uint16_t d_sparespertrack; /* # of spare sectors per track */
 uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

 /*
  * Alternate cylinders include maintenance, replacement,
  * configuration description areas, etc.
  */
 uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
 /*
  * d_interleave, d_trackskew and d_cylskew describe perturbations
  * in the media format used to compensate for a slow
```

```
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;         /* number of partitions in following */
uint32_t d_bbsize;         /* size of boot area at sn0, bytes */
uint32_t d_sbsize;         /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
 uint32_t p_size;         /* number of sectors in partition */
 uint32_t p_offset;       /* starting sector */
 uint32_t p_fsize;        /* filesystem basic fragment size */
 uint8_t  p_fstype; /* filesystem type, see below */
 uint8_t  p_frag;  /* filesystem fragments per block */
 uint16_t p_cpg;         /* filesystem cylinders per group */
} __attribute__((packed))
d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));



/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
```

```
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
  3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
```

```
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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```

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"Source code" for a work means the preferred form of the work for

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

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```
#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif
```

/*
Return the address of the last file name component of FILENAME.
If FILENAME has some trailing slash(es), they are considered to be
part of the last component.

```
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME     RESULT
          "foo.c"      "foo.c"
          "foo/bar.c"  "bar.c"
          "/foo/bar.c" "bar.c"
          "foo/bar/"   "bar/"
          "foo/bar//"  "bar//"
          "/"          ""
          "//"         ""
          ""           ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME     RESULT
          "foo/bar/"   ""
          "foo/bar//"  ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME     RESULT
          "foo/bar/"   "bar"
          "foo/bar//"  "bar"
          "/"          "/"
          "//"         "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
================================================================
Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
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##
Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009

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1.561 python-setuptools 80.9.0

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Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
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- https://github.com/abravalheri/validate-pyproject/issues

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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

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1.566 libtraceevent 1:1.8.2-1ubuntu2.1

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```
/* Print timestamps in nanoseconds */
tep_set_flag(tep,  TEP_NSEC_OUTPUT);
...
if (tep_test_flag(tep, TEP_NSEC_OUTPUT)) {
/* print timestamps in nanoseconds */
} else {
/* print timestamps in microseconds */
}
...
/* Print timestamps in microseconds */
tep_clear_flag(tep, TEP_NSEC_OUTPUT);
...
--
FILES
-----
[verse]
--
```

event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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/* Failed to get the events, sorted by ID */
} else {
while(events[i]) {
/* walk through the list of the events, sorted by ID */
i++;
}
}

i=0;
events = tep_list_events_copy(tep, TEP_EVENT_SORT_NAME);
if (events == NULL) {
/* Failed to get the events, sorted by name */
} else {
while(events[i]) {

```
/* walk through the list of the events, sorted by name */
i++;
}
free(events);
}

...
--
```

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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SF("shortslot"); SP();

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/* Read the 4 bytes at the offset 24 of data as an integer */
}
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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/* Failed to unregister yes_no_helper function */
}
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
trace-seq.h
Header file to include in order to have access to trace sequences
related APIs. Trace sequences are used to allow a function to call
several other functions to create a string of data to use.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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```
/* Just for kallsyms parsing */
guest_tep = tep_alloc();
if (!guest_tep)
exit(-1);

if (stat(argv[2], &st) < 0) {
perror(argv[2]);
exit(-1);
}

buf = malloc(st.st_size + 1);
if (!buf)
exit(-1);

fp = fopen(argv[2], "r");
if (!fp) {
perror(argv[2]);
exit(-1);
}

if (fread(buf, st.st_size, 1, fp) < 0) {
perror(argv[2]);
exit(-1);
}

buf[st.st_size] = '\0';

if (tep_parse_kallsyms(guest_tep, buf) < 0) {
printf("Failed to parse %s\n", argv[2]);
exit(-1);
}
free(buf);

tracecmd_follow_event(handle, "kvm", "kvm_exit", show_event, guest_tep);
tracecmd_follow_event(handle, "kvm", "kvm_entry", show_event, guest_tep);

tracecmd_iterate_events(handle, NULL, 0, NULL, NULL);

tep_free(guest_tep);
tracecmd_close(handle);
```

}
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3),
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/* There are no events */
} else {
for (i = 0; i < count; i++) {
event = (events+i);
/* process events[i] */
}

/* Get the last event */
event = tep_get_event(tep, count-1);
}
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
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/* Cannot find "common_pid" field in the event */
} else {
/* Get pid from the data record */
pid = tep_read_number(tep, record->data + field->offset,
field->size);
}

field = tep_find_field(event, "softexpires");
if (field == NULL) {
/* Cannot find "softexpires" event specific field in the event */
} else {
/* Get softexpires parameter from the data record */
softexpires = tep_read_number(tep, record->data + field->offset,

```
field->size);
}

field = tep_find_any_field(event, "mode");
if (field == NULL) {
/* Cannot find "mode" field in the event */
} else
{
/* Get mode parameter from the data record */
mode = tep_read_number(tep, record->data + field->offset,
field->size);
}
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
Header file to include in order to have access to the library APIs.
*-ltraceevent*
Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
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 Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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```

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-field_find.txt
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/* no plugins are loaded */
}
...
tep_unload_plugins(plugins, tep);
...
void print_plugin(struct tep_handle *tep, const char *path,
const char *name, void *data)
{
pritnf("Found libtraceevent plugin %s/%s\n", path, name);
}
...
tep_load_plugins_hook(tep, ".so", print_plugin, NULL);
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1), *tep_set_flag*(3)

AUTHOR

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 in path(s):
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/* Failed to parse the ftrace print format */
}

if (tep_parse_format(tep, &event, buf, size, "ftrace") != 0) {
/* Failed to parse the ftrace print format */
}
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
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SEE ALSO
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libtraceevent(3), *trace-cmd*(1)

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/* Failed to parse the header page */
}
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
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/* Failed to register pid / command mapping */
}
...
if (tep_is_pid_registered(tep, ls_pid) == 0) {
/* Command mapping for ls_pid is not registered */
}
...
const char *comm = tep_data_comm_from_pid(tep, ls_pid);
if (comm) {
/* Found process name for ls_pid */
}
...
int pid;
struct cmdline *cmd = tep_data_pid_from_comm(tep, "ls", NULL);
while (cmd) {
pid = tep_cmdline_pid(tep, cmd);
/* Found pid for process "ls" */
cmd = tep_data_pid_from_comm(tep, "ls", cmd);
}
--
FILES

[verse]
--
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Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

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/* The raw data is in big endian */
} else {
/* The raw data is in little endian */
}
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
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No license file was found, but licenses were detected in source scan.

```
/* Failed to print in the trace sequence */
}
va_end(ap);
}

trace_seq_reset(&seq);

char *str = " MAN page example";
if (trace_seq_puts(&seq, str) != strlen(str)) {
/* Failed to put str in the trace sequence */
}
if (trace_seq_putc(&seq, ':') != 1) {
/* Failed to put ':' in the trace sequence */
}
if (trace_seq_printf(&seq, " trace sequence: %d", 1) <= 0) {
/* Failed to print in the trace sequence */
}
foo_seq_print( &seq, "  %d\n", 2);

trace_seq_terminate(&seq);
...

if (trace_seq_do_printf(&seq) < 0 ) {
/* Failed to print the sequence buffer to the standard output */
}
FILE *fp = fopen("trace.txt", "w");
if (trace_seq_do_fprintf(&seq, fp) < 0 ) [
/* Failed to print the sequence buffer to the trace.txt file */
}

trace_seq_destroy(&seq);
...
```
--

FILES

[verse]
--
event-parse.h

Header file to include in order to have access to the library APIs.
trace-seq.h
Header file to include in order to have access to
trace sequences related APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
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SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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/* Print the value of "common_pid" */
tep_print_field_content(&seq, record->data, record->size, field_pid);

/* Print all fields of the "hrtimer_start" event */
tep_print_fields(&seq, record->data, record->size, event);

/* Print the value of "expires" field with custom format string */
tep_print_num_field(&seq, " timer expires in %llu ", event, "expires", record, 0);

/* Print the address and the name of "function" field with custom format string */
tep_print_func_field(&seq, " timer function is %s ", event, "function", record, 0);
}
...

--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
trace-seq.h
Header file to include in order to have access to trace sequences related APIs.
Trace sequences are used to allow a function to call several other functions
to create a string of data to use.
-ltraceevent
Linker switch to add when building a program that uses
 the library.
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SEE ALSO
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libtraceevent(3), *trace-cmd*(1)

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-long_size.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-read.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-page_size.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-reg_event_handler.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-header_page.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-create.txt
*
/libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-event_print.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-host_endian.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-parse-files.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-func_find.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-strerror.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-fields.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-timestamp.txt
No license file was found, but licenses were detected in source scan.

/* There is no event with ID 1857 */
}

event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if (event == NULL) {
/* There is no kvm_exit event, from kvm system */
}

void event_from_record(struct tep_record *record)
{
struct tep_event *event = tep_find_event_by_record(tep, record);
if (event == NULL) {
/* There is no event from given record */
}
}
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----

libtraceevent(3), *trace-cmd*(1)

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/* Failed to register kvm_exit address mapping */
}
...
if (tep_register_print_string(tep, "print string",
(unsigned long long) 0x87654321, NULL) != 0) {
/* Failed to register "print string" address mapping */
}
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----

libtraceevent(3), *trace-cmd*(1)

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/* Failed to get "common_pid" value */
}
}
...
--
FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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/*
* Copyright (C) 2009, 2010 Red Hat Inc, Steven Rostedt <srostedt@redhat.com>
*
*
* The parts for function graph printing was taken and modified from the
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*   - Copyright (C) 2009 Frederic Weisbecker,
* Frederic Weisbecker gave his permission to relicense the code to
* the Lesser General Public License.
*/

Found in path(s):
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/src/event-parse.c
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/* call libtraceevent APIs and observe any logs they produce */
...
tep_set_loglevel(TEP_LOG_CRITICAL);
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
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SEE ALSO
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/* Got the value of common type field */
}
if (tep_get_field_val(NULL, event, "pid", record, &val, 0) == 0) {
/* Got the value of pid specific field */
}
comm = tep_get_field_raw(NULL, event, "comm", record, &len, 0);
if (comm != NULL) {
/* Got a pointer to the comm event specific field */
}
}
}
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
trace-seq.h

Header file to include in order to have access to trace sequences
related APIs. Trace sequences are used to allow a function to call
several other functions to create a string of data to use.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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/* Got the ID of the event */
}

data = tep_data_pid(tep, record);
if (data >= 0) {
/* Got the process ID */
}

data = tep_data_preempt_count(tep, record);
if (data >= 0) {
/* Got the preemption count */
}

data = tep_data_flags(tep, record);
if (data >= 0) {
/* Got the latency flags */
}
}
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
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/* Failed to add a new rule to the filter, the error string is in errstr */
}

```
if (tep_filter_copy(filter1, filter) != 0) {
/* Failed to copy filter in filter1 */
}
...
if (tep_filter_compare(filter, filter1) != 1) {
/* Both filters are different */
}
...
void process_record(struct tep_handle *tep, struct tep_record *record)
{
struct tep_event *event;
char *fstring;

event = tep_find_event_by_record(tep, record);

if (tep_event_filtered(filter, event->id) == 1) {
/* The event has filter */
fstring = tep_filter_make_string(filter, event->id);
if (fstring != NULL) {
/* The filter for the event is in fstring */
free(fstring);
}
}

switch (tep_filter_match(filter, record)) {
case TEP_ERRNO__FILTER_MATCH:
/* The filter matches the record */
break;
case TEP_ERRNO__FILTER_MISS:
/* The filter does not match the record */
break;
case TEP_ERRNO__FILTER_NOT_FOUND:
/* No filter found for record's event */
break;
case TEP_ERRNO__NO_FILTER:
/*
 There are no rules in the filter */
break
default:
/* An error occurred during the test */
break;
}

if (tep_filter_remove_event(filter, event->id) == 1) {
/* The event was removed from the filter */
}
}
```

...
tep_filter_reset(filter);
...
tep_filter_free(filter);
tep_filter_free(filter1);
...
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
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/* Something wrong happened, the counter is not incremented by 1 */
}
tep_unref(tep);

...
tep_free(tep);
...
--
FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
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SEE ALSO
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1.567 aiohttp 3.12.15

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1.571 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
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All Python releases are Open Source (see http://www.opensource.org for
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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
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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
3.2	3.1	2010	PSF	yes

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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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Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the
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Of course, the
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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

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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!

The "Artistic License"

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The End

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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with the library, after making changes to the library and recompiling
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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.

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

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

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

That's all there is to it!
This is the Debian prepackaged version of the Debian Base System
Miscellaneous files. These files were written by Ian Murdock
<imurdock@debian.org> and Bruce Perens <bruce@pixar.com>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>,
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1.575 apport 2.28.1-0ubuntu3.8

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

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

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

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

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1.578 python-certifi 2025.8.3

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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 $

1.579 typing-extensions 4.15.0

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

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

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

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

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

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

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

Footnotes:

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

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

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1.580 nginx 1.24.0-2ubuntu7.5

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1.588 starlette 0.47.3

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1.589 rpds-py 0.27.1

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1.590 llvm-toolchain-20 1:20.1.2-0ubuntu1~24.04.2

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```
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  <signature of Ty Coon>, 1 April 1989
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```
/*
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*/

#include "common/freedreno_dev_info.h"

struct testcase {
  enum pipe_format format;

  int array_size; /* Size for array textures, or 0 otherwise. */
  bool is_3d;
```

```
  /* Partially filled layout of input parameters and expected results. */
  struct {
     uint32_t tile_mode : 2;
     bool tile_all : 1;
     bool ubwc : 1;
     uint32_t width0, height0, depth0;
     uint32_t nr_samples;
     struct {
        uint32_t offset;
        uint32_t pitch;
        uint32_t size0;
     } slices[FDL_MAX_MIP_LEVELS];
     struct {
        uint32_t offset;
        uint32_t pitch;
     } ubwc_slices[FDL_MAX_MIP_LEVELS];
  } layout;
};

bool fdl_test_layout(const struct testcase *testcase, const struct fd_dev_id *dev_id);
/*
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*/

#ifndef FREEDRENO_LAYOUT_H_
#define FREEDRENO_LAYOUT_H_

#include <stdbool.h>
#include <stdint.h>

#include "util/format/u_format.h"
#include "util/u_debug.h"
#include "util/u_math.h"

#include "common/freedreno_common.h"
#include "common/freedreno_dev_info.h"

BEGINC;

/* Shared freedreno mipmap layout helper
*
* It does *not* attempt to track surface transitions, in particular
* about UBWC state.  Possibly it should, but
*  (a) I'm not sure if in all cases we can transparently do in-
*      place transitions (ie. a5xx textures with interleaved
*      meta and pixel data
*  (b) Even if we can, we probably can't assume that we have
```

```
*      figured out yet how to do in-place transition for every
*      generation.
*/

/* Texture Layout on a3xx:
* ----------------------
*
* Each mipmap-level contains all of it's layers (ie. all cubmap
* faces, all 1d/2d array elements, etc).  The texture sampler is
* programmed
 with the start address of each mipmap level, and hw
* derives the layer offset within the level.
*
*
* Texture Layout on a4xx+:
* ----------------------
*
* For cubemap and 2d array, each layer contains all of it's mipmap
* levels (layer_first layout).
*
* 3d textures are laid out as on a3xx.
*
* In either case, the slice represents the per-miplevel information,
* but in layer_first layout it only includes the first layer, and
* an additional offset of (rsc->layer_size * layer) must be added.
*
*
* UBWC Color Compressions (a5xx+):
* -------------------------------
*
* Color compression is only supported for tiled layouts.  In general
* the meta "flag" buffer (ie. what holds the compression state for
* each block) can be separate from the color data, except for textures
* on a5xx where it needs to be interleaved with layers/levels of a
* texture.
*/

#define FDL_MAX_MIP_LEVELS 15

struct fdl_slice {
  uint32_t offset; /* offset of first layer in slice
 */
  uint32_t size0;  /* size of first layer in slice */
};

/* parameters for explicit (imported) layout */
struct fdl_explicit_layout {
  uint32_t offset;
```

```
  uint32_t pitch;
};

/**
* Metadata shared between vk and gallium driver for interop.
*
* NOTE: EXT_external_objects requires app to check device and driver
* UUIDs to ensure that the vk and gl driver are compatible.  So for
* now we don't need any additional versioning of the metadata.
*/
struct fdl_metadata {
  uint64_t modifier;
};

/**
* Encapsulates the layout of a resource, including position of given 2d
* surface (layer, level) within.  Or rather all the information needed
* to derive this.
*/
struct fdl_layout {
  struct fdl_slice slices[FDL_MAX_MIP_LEVELS];
  struct fdl_slice ubwc_slices[FDL_MAX_MIP_LEVELS];
  uint32_t pitch0;
  uint32_t ubwc_width0;
  uint64_t layer_size;
  uint64_t ubwc_layer_size; /* in bytes */
  bool ubwc : 1;
  bool layer_first : 1; /* see above description */
  bool tile_all
 : 1;
  bool is_mutable : 1;

  /* Note that for tiled textures, beyond a certain mipmap level (ie.
   * when width is less than block size) things switch to linear.  In
   * general you should not directly look at fdl_layout::tile_mode,
   * but instead use fdl_surface::tile_mode which will correctly take
   * this into account.
   */
  uint32_t tile_mode : 2;
  /* Bytes per pixel (where a "pixel" is a single row of a block in the case
   * of compression), including each sample in the case of multisample
   * layouts.
   */
  uint8_t cpp;

  /**
   * Left shift necessary to multiply by cpp.  Invalid for NPOT cpp, please
   * use fdl_cpp_shift() to sanity check you aren't hitting that case.
```

```
   */
  uint8_t cpp_shift;

  uint32_t width0, height0, depth0;
  uint32_t mip_levels;
  uint32_t nr_samples;
  enum pipe_format format;

  uint64_t size;       /* Size of the whole image, in bytes. */
  uint32_t base_align; /* Alignment of the base address, in bytes. */

 uint8_t pitchalign;  /* log2(pitchalign) */
};

static inline uint32_t
fdl_cpp_shift(const struct fdl_layout *layout)
{
  assert(util_is_power_of_two_or_zero(layout->cpp));
  return layout->cpp_shift;
}

static inline uint32_t
fdl_pitch(const struct fdl_layout *layout, unsigned level)
{
  return align(u_minify(layout->pitch0, level), 1 << layout->pitchalign);
}

#define RGB_TILE_WIDTH_ALIGNMENT  64
#define RGB_TILE_HEIGHT_ALIGNMENT 16
#define UBWC_PLANE_SIZE_ALIGNMENT 4096

static inline uint32_t
fdl_ubwc_pitch(const struct fdl_layout *layout, unsigned level)
{
  if (!layout->ubwc)
     return 0;
  return align(u_minify(layout->ubwc_width0, level), RGB_TILE_WIDTH_ALIGNMENT);
}

static inline uint32_t
fdl_layer_stride(const struct fdl_layout *layout, unsigned level)
{
  if (layout->layer_first)
     return layout->layer_size;
  else
     return layout->slices[level].size0;
}
```

```
/* a2xx is special and needs PoT alignment for mipmaps: */
static inline uint32_t
fdl2_pitch(const struct
 fdl_layout *layout, unsigned level)
{
  uint32_t pitch = fdl_pitch(layout, level);
  if (level)
     pitch = util_next_power_of_two(pitch);
  return pitch;
}

static inline uint32_t
fdl2_pitch_pixels(const struct fdl_layout *layout, unsigned level)
{
  return fdl2_pitch(layout, level) >> fdl_cpp_shift(layout);
}

static inline uint32_t
fdl_surface_offset(const struct fdl_layout *layout, unsigned level,
                   unsigned layer)
{
  const struct fdl_slice *slice = &layout->slices[level];
  return slice->offset + fdl_layer_stride(layout, level) * layer;
}

static inline uint32_t
fdl_ubwc_offset(const struct fdl_layout *layout, unsigned level, unsigned layer)
{
  const struct fdl_slice *slice = &layout->ubwc_slices[level];
  return slice->offset + layer * layout->ubwc_layer_size;
}

/* Minimum layout width to enable UBWC. */
#define FDL_MIN_UBWC_WIDTH 16

static inline bool
fdl_level_linear(const struct fdl_layout *layout, int level)
{
  if (layout->tile_all)

 return false;

  unsigned w = u_minify(layout->width0, level);
  if (w < FDL_MIN_UBWC_WIDTH)
     return true;

  return false;
}
```

```
static inline uint32_t
fdl_tile_mode(const struct fdl_layout *layout, int level)
{
 if (layout->tile_mode && fdl_level_linear(layout, level))
    return 0; /* linear */
 else
    return layout->tile_mode;
}

static inline bool
fdl_ubwc_enabled(const struct fdl_layout *layout, int level)
{
 return layout->ubwc && !fdl_level_linear(layout, level);
}

const char *fdl_tile_mode_desc(const struct fdl_layout *layout, int level);

void fdl_layout_buffer(struct fdl_layout *layout, uint32_t size);

void fdl5_layout(struct fdl_layout *layout, enum pipe_format format,
              uint32_t nr_samples, uint32_t width0, uint32_t height0,
              uint32_t depth0, uint32_t mip_levels, uint32_t array_size,
              bool is_3d);

bool fdl6_layout(struct fdl_layout *layout, const struct fd_dev_info *info,
              enum pipe_format format,
 uint32_t nr_samples, uint32_t width0,
              uint32_t height0, uint32_t depth0, uint32_t mip_levels,
              uint32_t array_size, bool is_3d, bool is_mutable,
              bool force_ubwc,
              struct fdl_explicit_layout *plane_layout);

static inline void
fdl_set_pitchalign(struct fdl_layout *layout, unsigned pitchalign)
{
 uint32_t nblocksx = util_format_get_nblocksx(layout->format, layout->width0);
 layout->pitchalign = pitchalign;
 layout->pitch0 = align(nblocksx * layout->cpp, 1 << pitchalign);
}

void fdl_dump_layout(struct fdl_layout *layout);

void fdl6_get_ubwc_blockwidth(const struct fdl_layout *layout,
                        uint32_t *blockwidth, uint32_t *blockheight);

enum fdl_view_type {
 FDL_VIEW_TYPE_1D = 0,
```

```
  FDL_VIEW_TYPE_2D = 1,
  FDL_VIEW_TYPE_CUBE = 2,
  FDL_VIEW_TYPE_3D = 3,
  FDL_VIEW_TYPE_BUFFER = 4,
};

enum fdl_chroma_location {
  FDL_CHROMA_LOCATION_COSITED_EVEN = 0,
  FDL_CHROMA_LOCATION_MIDPOINT
 = 1,
};

struct fdl_view_args {
  uint32_t chip;
  uint64_t iova;
  uint32_t base_miplevel;
  uint32_t level_count;
  uint32_t base_array_layer;
  uint32_t layer_count;
  float min_lod_clamp;
  unsigned char swiz[4];
  enum pipe_format format;
  enum fdl_view_type type;
  enum fdl_chroma_location chroma_offsets[2];
};

#define FDL6_TEX_CONST_DWORDS 16

struct fdl6_view {
  uint64_t base_addr;
  uint64_t ubwc_addr;
  uint32_t layer_size;
  uint32_t ubwc_layer_size;

  uint32_t offset;

  uint32_t width, height;
  bool need_y2_align;

  bool ubwc_enabled;
  bool is_mutable;
  uint8_t color_swap;

  enum pipe_format format;

  uint32_t descriptor[FDL6_TEX_CONST_DWORDS];

  /* Descriptor for use as a storage image as opposed to a sampled image.
```

```
   * This has a few differences for cube maps (e.g. type).
   */
  uint32_t storage_descriptor[FDL6_TEX_CONST_DWORDS];

  uint32_t pitch;

  /* pre-filled register values */
  uint32_t FLAG_BUFFER_PITCH;

  uint32_t
 RB_MRT_BUF_INFO;
  uint32_t SP_FS_MRT_REG;

  uint32_t SP_PS_2D_SRC_INFO;
  uint32_t SP_PS_2D_SRC_SIZE;

  uint32_t RB_2D_DST_INFO;

  uint32_t RB_BLIT_DST_INFO;

  uint32_t GRAS_LRZ_DEPTH_VIEW;
};

void
fdl6_view_init(struct fdl6_view *view, const struct fdl_layout **layouts,
               const struct fdl_view_args *args, bool has_z24uint_s8uint);
void
fdl6_buffer_view_init(uint32_t *descriptor, enum pipe_format format,
                      const uint8_t *swiz, uint64_t iova, uint32_t size);

void
fdl6_format_swiz(enum pipe_format format, bool has_z24uint_s8uint,
                 unsigned char *format_swiz);

enum fdl_macrotile_mode {
  FDL_MACROTILE_4_CHANNEL,
  FDL_MACROTILE_8_CHANNEL,
  /* Used internally by turnip */
  FDL_MACROTILE_INVALID = ~0,
};

/* Parameters that affect UBWC swizzling. Note that because we don't handle
* compression, this isn't a complete set of knobs. See the documentation in
* fd6_tiled_memcpy.c for a description of each one.
*/
struct fdl_ubwc_config
 {
  unsigned highest_bank_bit;
```

```
   unsigned bank_swizzle_levels;
   enum fdl_macrotile_mode macrotile_mode;
};

void
fdl6_memcpy_linear_to_tiled(uint32_t x_start, uint32_t y_start,
                            uint32_t width, uint32_t height,
                            char *dst, const char *src,
                            const struct fdl_layout *dst_layout,
                            unsigned dst_miplevel,
                            uint32_t src_pitch,
                            const struct fdl_ubwc_config *config);

void
fdl6_memcpy_tiled_to_linear(uint32_t x_start, uint32_t y_start,
                            uint32_t width, uint32_t height,
                            char *dst, const char *src,
                            const struct fdl_layout *src_layout,
                            unsigned src_miplevel,
                            uint32_t dst_pitch,
                            const struct fdl_ubwc_config *config);

ENDC;

#endif /* FREEDRENO_LAYOUT_H_ */
```

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The screenshot-layer directory was created from using mesa-overlay as a template, then
adding portions of the screenshotting layer from LunarG's VulkanTools repository:
https://github.com/LunarG/VulkanTools/tree/main

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==========

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```
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*/

#ifndef FREEDRENO_LRZ_LAYOUT_H_
#define FREEDRENO_LRZ_LAYOUT_H_

#include <stdint.h>

#include "freedreno_layout.h"

BEGINC;

struct fdl_lrz_layout {
  uint32_t lrz_offset;
  uint32_t lrz_pitch;
  uint32_t lrz_height;
  uint32_t lrz_layer_size;
  uint32_t lrz_fc_offset;
  uint32_t lrz_fc_size;
  uint32_t lrz_total_size;
};

void
fdl5_lrz_layout_init(struct fdl_lrz_layout *lrz_layout, uint32_t width,
                     uint32_t height, uint32_t nr_samples);
ENDC;

#ifdef __cplusplus
#include "common/freedreno_lrz.h"

template <chip CHIP>
static void
fdl6_lrz_layout_init(struct fdl_lrz_layout *lrz_layout,
                     struct fdl_layout *layout,
                     const struct fd_dev_info *dev_info, uint32_t lrz_offset,
                     uint32_t array_layers)
{
  unsigned width = layout->width0;
  unsigned height = layout->height0;

  /* LRZ buffer is super-sampled */
  switch (layout->nr_samples)
  {
  case 8:
```

```
   height *= 2;
   FALLTHROUGH;
 case 4:
   width *= 2;
   FALLTHROUGH;
 case 2:
   height *= 2;
   break;
 default:
   break;
 }

 unsigned lrz_pitch = align(DIV_ROUND_UP(width, 8), 32);
 unsigned lrz_height = align(DIV_ROUND_UP(height, 8), 32);

 lrz_layout->lrz_offset = lrz_offset;
 lrz_layout->lrz_height = lrz_height;
 lrz_layout->lrz_pitch = lrz_pitch;
 lrz_layout->lrz_layer_size = lrz_pitch * lrz_height * sizeof(uint16_t);

 unsigned nblocksx = DIV_ROUND_UP(DIV_ROUND_UP(width, 8), 16);
 unsigned nblocksy = DIV_ROUND_UP(DIV_ROUND_UP(height, 8), 4);

 /* Fast-clear buffer is 1bit/block */
 lrz_layout->lrz_fc_size =
   DIV_ROUND_UP(nblocksx * nblocksy, 8) * array_layers;

 /* Fast-clear buffer cannot be larger than 512 bytes on A6XX and 1024 bytes
  * on A7XX (HW limitation) */
 if (!dev_info->a6xx.enable_lrz_fast_clear ||
     lrz_layout->lrz_fc_size > fd_lrzfc_layout<CHIP>::FC_SIZE) {
   lrz_layout->lrz_fc_size
= 0;
 }

 uint32_t lrz_size = lrz_layout->lrz_layer_size * array_layers;
 if (dev_info->a6xx.enable_lrz_fast_clear ||
     dev_info->a6xx.has_lrz_dir_tracking) {
   lrz_layout->lrz_fc_offset =
      lrz_layout->lrz_offset + lrz_size;
   lrz_size += sizeof(fd_lrzfc_layout<CHIP>);
 }

 lrz_layout->lrz_total_size = lrz_size;

 uint32_t lrz_clear_height = lrz_layout->lrz_height * array_layers;
 if (((lrz_clear_height - 1) >> 14) > 0) {
   /* For simplicity bail out if LRZ cannot be cleared in one go. */
```

```
    lrz_layout->lrz_height = 0;
    lrz_layout->lrz_total_size = 0;
  }
}
#endif

#endif
```

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```
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libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd5_layout.c',
   'fd6_format_table.c',
   'fd6_layout.c',
   'fd6_tiled_memcpy.cc',
   'fd6_view.c',
   'freedreno_layout.c',
   'freedreno_lrz_layout.c',
   freedreno_xml_header_files,
 ],
 include_directories : [inc_freedreno, inc_include, inc_src],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',
 dependencies : [idep_nir_headers, idep_mesautil, idep_libfreedreno_common],
 build_by_default : false,
)

foreach major : ['5', '6']
 test(
   'fd' + major + '_layout',
   executable(
     'fd' + major + '_layout',
     [
       'fd_layout_test.c',
       'fd' + major + '_layout_test.c',
       freedreno_xml_header_files,
     ],
     link_with: libfreedreno_layout,
     dependencies : [idep_mesautil, idep_libfreedreno_common],
     include_directories: [
       inc_include,
       inc_src,
       inc_freedreno],
    ),
   suite : ['freedreno'],
 )
endforeach
/*
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```

```
*    Rob Clark <robclark@freedesktop.org>
*/

#ifndef FD6_FORMAT_TABLE_H
#define FD6_FORMAT_TABLE_H

#include "util/format/u_format.h"
#include "util/u_math.h"

#include "common/freedreno_common.h"

#include "adreno_pm4.xml.h"
#include "adreno_common.xml.h"
#include "a6xx.xml.h"

BEGINC;

static inline enum a6xx_tex_swiz
fdl6_swiz(unsigned char swiz)
{
  STATIC_ASSERT((unsigned) A6XX_TEX_X == (unsigned) PIPE_SWIZZLE_X);
  STATIC_ASSERT((unsigned) A6XX_TEX_Y == (unsigned) PIPE_SWIZZLE_Y);
  STATIC_ASSERT((unsigned) A6XX_TEX_Z == (unsigned) PIPE_SWIZZLE_Z);
  STATIC_ASSERT((unsigned) A6XX_TEX_W == (unsigned) PIPE_SWIZZLE_W);
  STATIC_ASSERT((unsigned) A6XX_TEX_ZERO == (unsigned) PIPE_SWIZZLE_0);
  STATIC_ASSERT((unsigned) A6XX_TEX_ONE == (unsigned) PIPE_SWIZZLE_1);
  return (enum a6xx_tex_swiz) swiz;
}

enum a6xx_depth_format fd6_pipe2depth(enum
 pipe_format format);

enum a6xx_format fd6_vertex_format(enum pipe_format format) ATTRIBUTE_CONST;
enum a3xx_color_swap fd6_vertex_swap(enum pipe_format format) ATTRIBUTE_CONST;
enum a6xx_format fd6_texture_format(enum pipe_format format,
                                    enum a6xx_tile_mode tile_mode,
                                    bool is_mutable) ATTRIBUTE_CONST;
enum a3xx_color_swap fd6_texture_swap(enum pipe_format format,
                                      enum a6xx_tile_mode tile_mode,
                                      bool is_mutable) ATTRIBUTE_CONST;
enum a6xx_format fd6_color_format(enum pipe_format format,
                                  enum a6xx_tile_mode tile_mode) ATTRIBUTE_CONST;
enum a3xx_color_swap fd6_color_swap(enum pipe_format format,
                                    enum a6xx_tile_mode tile_mode,
                                    bool is_mutable) ATTRIBUTE_CONST;

ENDC;
```

#endif /* FD6_FORMAT_TABLE_H */

1.592 jsonschema 4.25.1

1.592.1 Available under license :

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1.593 coreutils 9.4-3ubuntu6.1

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```
/* Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE.  */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
```

```
 Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
 The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
 function name because
   * Various platforms have different functions in their libc.
     In particular, the glibc basename(),
defined in <string.h>, does
     not consider trailing slashes to be part of the component:
          FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
 Typically FILENAME is the value returned by base_name or last_component.
 Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
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1.598 libxml2 2.9.14+dfsg-1.3ubuntu3.5

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1.599 cups 2.4.7-1.2ubuntu7.4

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1.600 openssh 1:9.6p1-3ubuntu13.14

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
```

```
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

#include <sys/types.h>
#ifdef HAVE_POLL_H
# include <poll.h>
#elif HAVE_SYS_POLL_H
# include <sys/poll.h>
#endif

#ifndef HAVE_STRUCT_POLLFD_FD
typedef struct pollfd {
 int fd;
 short events;
```

```
 short revents;
} pollfd_t;

#ifndef POLLIN
# define POLLIN  0x0001
#endif
#ifndef POLLPRI
# define POLLPRI 0x0002
#endif
#ifndef POLLOUT
# define POLLOUT 0x0004
#endif
#ifndef POLLERR
# define POLLERR 0x0008
#endif
#ifndef POLLHUP
# define POLLHUP 0x0010
#endif
#ifndef POLLNVAL
# define POLLNVAL 0x0020
#endif

#if 0
/* the following are
 currently not implemented */
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not standard */
#endif /* !HAVE_STRUCT_POLLFD_FD */

#ifndef HAVE_NFDS_T
typedef unsigned int nfds_t;
#endif

#ifndef HAVE_POLL
int   poll(struct pollfd *, nfds_t, int);
#endif

#ifndef HAVE_PPOLL
int   ppoll(struct pollfd *, nfds_t, const struct timespec *, const sigset_t *);
#endif

#endif /* !_COMPAT_POLL_H_ */
```

```
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#ifndef _BSD_MISC_H
#define _BSD_MISC_H

#include "includes.h"

char *ssh_get_progname(char *);
int seed_from_prngd(unsigned char *, size_t);

#ifndef HAVE_SETSID
#define setsid() setpgrp(0, getpid())
#endif
 /* !HAVE_SETSID */

#ifndef HAVE_SETENV
int setenv(const char *, const char *, int);
#endif /* !HAVE_SETENV */

#ifndef HAVE_SETLOGIN
int setlogin(const char *);
#endif /* !HAVE_SETLOGIN */

#ifndef HAVE_INNETGR
int innetgr(const char *, const char *, const char *, const char *);
#endif /* HAVE_INNETGR */

#if !defined(HAVE_SETEUID) && defined(HAVE_SETREUID)
int seteuid(uid_t);
#endif /* !defined(HAVE_SETEUID) && defined(HAVE_SETREUID) */

#if !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID)
int setegid(uid_t);
#endif /* !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID) */
```

```
#if !defined(HAVE_STRERROR) && defined(HAVE_SYS_ERRLIST) && defined(HAVE_SYS_NERR)
const char *strerror(int);
#endif

#if !defined(HAVE_SETLINEBUF)
#define setlinebuf(a) (setvbuf((a), NULL, _IOLBF, 0))
#endif

#ifndef HAVE_UTIMES
#ifndef HAVE_STRUCT_TIMEVAL
struct timeval {
 long tv_sec;
 long tv_usec;
}
#endif /* HAVE_STRUCT_TIMEVAL */

int utimes(const char *, struct timeval *);
#endif /* HAVE_UTIMES */

#ifndef
 AT_FDCWD
# define AT_FDCWD (-2)
#endif

#ifndef HAVE_FCHMODAT
int fchmodat(int, const char *, mode_t, int);
#endif

#ifndef HAVE_FCHOWNAT
int fchownat(int, const char *, uid_t, gid_t, int);
#endif

#ifndef HAVE_TRUNCATE
int truncate (const char *, off_t);
#endif /* HAVE_TRUNCATE */

#ifndef HAVE_STRUCT_TIMESPEC
struct timespec {
 time_t tv_sec;
 long tv_nsec;
};
#endif /* !HAVE_STRUCT_TIMESPEC */

#if !defined(HAVE_NANOSLEEP) && !defined(HAVE_NSLEEP)
# include <time.h>
int nanosleep(const struct timespec *, struct timespec *);
#endif
```

```
#ifndef HAVE_UTIMENSAT
# include <time.h>
/* start with the high bits and work down to minimise risk of overlap */
# ifndef AT_SYMLINK_NOFOLLOW
#  define AT_SYMLINK_NOFOLLOW 0x80000000
# endif
int utimensat(int, const char *, const struct timespec[2], int);
#endif /* !HAVE_UTIMENSAT */

#ifndef HAVE_USLEEP
int usleep(unsigned int useconds);
#endif

#ifndef HAVE_TCGETPGRP
pid_t tcgetpgrp(int);
#endif

#ifndef HAVE_TCSENDBREAK
int tcsendbreak(int, int);
#endif

#ifndef
 HAVE_UNSETENV
int unsetenv(const char *);
#endif

#ifndef HAVE_ISBLANK
int isblank(int);
#endif

#ifndef HAVE_GETPGID
pid_t getpgid(pid_t);
#endif

#ifndef HAVE_PSELECT
int pselect(int, fd_set *, fd_set *, fd_set *, const struct timespec *,
  const sigset_t *);
#endif

#ifndef HAVE_ENDGRENT
# define endgrent() do { } while(0)
#endif

#ifndef HAVE_KRB5_GET_ERROR_MESSAGE
# define krb5_get_error_message krb5_get_err_text
#endif
```

```
#ifndef HAVE_KRB5_FREE_ERROR_MESSAGE
# define krb5_free_error_message(a,b) do { } while(0)
#endif

#ifndef HAVE_PLEDGE
int pledge(const char *promises, const char *paths[]);
#endif

/* bsd-err.h */
#ifndef HAVE_ERR
void err(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_ERRX
void errx(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_WARN
void warn(const char *, ...) __attribute__((format(printf, 1, 2)));
#endif

#ifndef HAVE_LLABS
long long llabs(long long);
#endif

#if defined(HAVE_DECL_BZERO)
 && HAVE_DECL_BZERO == 0
void bzero(void *, size_t);
#endif

#ifndef HAVE_RAISE
int raise(int);
#endif

#ifndef HAVE_GETSID
pid_t getsid(pid_t);
#endif

#ifndef HAVE_FLOCK
# define LOCK_SH  0x01
# define LOCK_EX  0x02
# define LOCK_NB  0x04
# define LOCK_UN  0x08
int flock(int, int);
#endif

#ifdef FFLUSH_NULL_BUG
# define fflush(x) (_ssh_compat_fflush(x))
#endif
```

```
#ifndef HAVE_LOCALTIME_R
struct tm *localtime_r(const time_t *, struct tm *);
#endif

#ifndef HAVE_REALPATH
#define realpath(x, y) (sftp_realpath((x), (y)))
#endif

#endif /* _BSD_MISC_H */
/*
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*/

#include "includes.h"

#if !defined(HAVE_STATVFS) || !defined(HAVE_FSTATVFS)

#include <sys/types.h>

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
#ifdef HAVE_SYS_STATFS_H
#include <sys/statfs.h>
#endif
#ifdef
 HAVE_SYS_VFS_H
#include <sys/vfs.h>
#endif

#ifndef HAVE_FSBLKCNT_T
typedef unsigned long fsblkcnt_t;
#endif
#ifndef HAVE_FSFILCNT_T
typedef unsigned long fsfilcnt_t;
#endif
```

```
#ifndef ST_RDONLY
#define ST_RDONLY 1
#endif
#ifndef ST_NOSUID
#define ST_NOSUID 2
#endif

 /* as defined in IEEE Std 1003.1, 2004 Edition */
struct statvfs {
 unsigned long f_bsize; /* File system block size. */
 unsigned long f_frsize; /* Fundamental file system block size. */
 fsblkcnt_t f_blocks; /* Total number of blocks on file system in */
   /* units of f_frsize. */
 fsblkcnt_t    f_bfree; /* Total number of free blocks. */
 fsblkcnt_t    f_bavail; /* Number of free blocks available to  */
   /* non-privileged process.  */
 fsfilcnt_t    f_files; /* Total number of file serial numbers. */
 fsfilcnt_t    f_ffree; /* Total number of free file serial numbers. */
 fsfilcnt_t    f_favail; /* Number of file serial numbers available to */
   /* non-privileged process. */
 unsigned long f_fsid; /*
 File system ID. */
 unsigned long f_flag; /* BBit mask of f_flag values. */
 unsigned long f_namemax;/*  Maximum filename length. */
};
#endif

#ifndef HAVE_STATVFS
int statvfs(const char *, struct statvfs *);
#endif

#ifndef HAVE_FSTATVFS
int fstatvfs(int, struct statvfs *);
#endif
```

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```
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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
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#ifndef _BSD_SIGNAL_H
#define _BSD_SIGNAL_H

#include "includes.h"

#include <signal.h>

#ifndef _NSIG
# ifdef NSIG
#  define _NSIG NSIG
# else
#  define _NSIG 128
# endif
#endif

#if !defined(HAVE_STRSIGNAL)
char
 *strsignal(int);
#endif

#endif /* _BSD_SIGNAL_H */
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*/

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#define _BSD_CYGWIN_UTIL_H

#ifdef HAVE_CYGWIN

#undef ERROR

/* Avoid including windows headers. */
typedef void *HANDLE;
#define INVALID_HANDLE_VALUE ((HANDLE) -1)
#define DNLEN 16
#define UNLEN 256

/* Cygwin functions for which declarations are only available when including
  windows headers, so we have to define them here explicitly. */
extern HANDLE cygwin_logon_user (const struct passwd *, const char *);
extern void cygwin_set_impersonation_token (const HANDLE);

#include
 <sys/cygwin.h>
#include <io.h>

#define CYGWIN_SSH_PRIVSEP_USER (cygwin_ssh_privsep_user())
const char *cygwin_ssh_privsep_user();

int binary_open(const char *, int , ...);
int check_ntsec(const char *);
char **fetch_windows_environment(void);
void free_windows_environment(char **);
int cygwin_ug_match_pattern_list(const char *, const char *);

#ifndef NO_BINARY_OPEN
#define open binary_open
#endif

#endif /* HAVE_CYGWIN */

#endif /* _BSD_CYGWIN_UTIL_H */
```

```
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*
*/

#ifndef _NEXT_POSIX_H
#define _NEXT_POSIX_H

#ifdef HAVE_NEXT
#include <sys/dir.h>

/* NGROUPS_MAX is behind -lposix.  Use the BSD version which is NGROUPS */
#undef NGROUPS_MAX
#define NGROUPS_MAX NGROUPS

/* NeXT's readdir() is BSD (struct direct) not POSIX (struct dirent) */
#define dirent direct

/* Swap out NeXT's BSD wait() for a more POSIX compliant one */
pid_t posix_wait(int *);
#define wait(a) posix_wait(a)

/* #ifdef wrapped functions that need defining for clean compiling */
pid_t getppid(void);
void vhangup(void);
int innetgr(const char *, const char *, const char *, const char *);
```

```
/* TERMCAP */
int tcgetattr(int, struct termios *);
int tcsetattr(int, int,
 const struct termios *);
int tcsetpgrp(int, pid_t);
speed_t cfgetospeed(const struct termios *);
speed_t cfgetispeed(const struct termios *);
int cfsetospeed(struct termios *, int);
int cfsetispeed(struct termios *, int);
#endif /* HAVE_NEXT */
#endif /* _NEXT_POSIX_H */
/*
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.601 sqlite 3.45.1-1ubuntu2.5

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```
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1.602 vim 2:9.1.0016-1ubuntu7.9

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2) The modified Vim must be distributed in one of the following five ways:

a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainers are listed here: https://github.com/orgs/vim/people. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer

or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.

- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

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uganda.txt For Vim version 9.1. Last change: 2022 Mar 02

  VIM REFERENCE MANUAL by Bram Moolenaar

 uganda *Uganda* *copying* *copyright* *license*
SUMMARY

iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

https://iccf-holland.org/
https://www.vim.org/iccf/
https://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text.
You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation

then this license, or a later version, also applies to your changes.
The current maintainers are listed here: https://github.com/orgs/vim/people.
If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

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- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
    sources, parts of it or from a modified version. You may use this
    license for previous Vim releases instead of the license that they came
    with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
 file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
 |sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
 A few minor changes have been made since he checked it, but that should not
 make a difference.

- If you link Vim with a library that goes under the GNU
 GPL, this limits
 further distribution to the GNU GPL. Also when you didn't actually change
 anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
 further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and
 contact information with the "--with-modified-by" configure argument or the
 MODIFIED_BY define.

==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
usually is enough food. But this district is suffering from AIDS more than
any other part of the world. Some say that it started there. Estimations are
that in the past 10 to 30% of the Ugandans
 are infected with HIV. Because
parents die, there are many orphans. In this district about 60,000 children
have lost one or both parents, out of a population of 350,000. Although AIDS
is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the

future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on
the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
If you must send a check send it to our Canadian partner:
https://www.kuwasha.net/

Canada: Contact Kuwasha in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. Kuwasha forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Look on their site for information about sponsorship: https://www.kuwasha.net/
If you make a donation to Kuwasha you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in
Amersfoort. This will allow for tax deduction if you live in Holland. ING bank, IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:
https://iccf-holland.org/germany.html

Europe: Use a bank transfer if possible. See "Others" below for the
swift code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org

Others: Transfer to this account if possible:
ING bank: IBAN: NL95 INGB 0004 5487 74
Swift code: INGBNL2A
under the name "stichting ICCF Holland", Amersfoort
Checks are
not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:

1.603 d-conf 0.40.0-4ubuntu0.1

1.603.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that

any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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1.604 pam 1.5.3-5ubuntu5.5

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
```
===================================================================
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -348,6 +348,65 @@
   return PAM_SUCCESS;
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+
      /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
```

```
+       if (pwd != NULL)
+       {
+          if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+             pam_syslog(pamh, LOG_ERR,
+                        "Unable to change UID to %d temporarily\n",
+                        pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+          }
+
+          if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+          if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+
+          if (stat(flag, &s) != 0)
+          {
+             int fd = open("/etc/legal", O_RDONLY, 0);
+             if (fd >= 0) {
+                try_to_display_fd(pamh, fd);
+                close(fd);
+             }
+             mkdir(dir, 0700);
+             f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
               S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f>=0) close(f);
+          }
+
+finished:
+          if (pam_modutil_regain_priv(pamh, &privs)) {
+             pam_syslog(pamh, LOG_ERR,
+                        "Unable to change UID back to %d\n", privs.old_uid);
+             retval = PAM_SESSION_ERR;
+          }
+
+          _pam_drop(flag);
+          _pam_drop(dir);
+       }
+    }
+    return retval;
+}
+
int pam_sm_open_session(pam_handle_t *pamh, int flags,
   int argc, const char **argv)
{
@@ -446,6 +505,9 @@
                        motd_dir_path_split, num_motd_dir_paths,
```

```
                        report_missing);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+
  out:
    _pam_drop(motd_path_copy);
    _pam_drop(motd_path_split);
```

1.605 glibc 2.39-0ubuntu8.6

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this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
==========
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -348,6 +348,65 @@

```
   return PAM_SUCCESS;
}

+int display_legal(pam_handle_t *pamh)
+{
+   int retval = PAM_IGNORE, rc;
+   char *user = NULL;
+   char *dir = NULL;
+   char *flag = NULL;
+   struct passwd *pwd = NULL;
+   struct stat s;
+   int f;
+   /* Get the user name to determine if we need to print the disclaimer */
+   rc = pam_get_item(pamh, PAM_USER, &user);
+   if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+   {
+      PAM_MODUTIL_DEF_PRIVS(privs);
+
+
     /* Get the password entry */
+      pwd = pam_modutil_getpwnam (pamh, user);
+      if (pwd != NULL)
+      {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+            pam_syslog(pamh, LOG_ERR,
+                  "Unable to change UID to %d temporarily\n",
+                  pwd->pw_uid);
+            retval = PAM_SESSION_ERR;
+            goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+            int fd = open("/etc/legal", O_RDONLY, 0);
+            if (fd >= 0) {
+               try_to_display_fd(pamh, fd);
+               close(fd);
+            }
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
             S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
```

```
+           }
+
+finished:
+           if (pam_modutil_regain_priv(pamh, &privs)) {
+              pam_syslog(pamh, LOG_ERR,
+                         "Unable to change UID back to %d\n", privs.old_uid);
+              retval = PAM_SESSION_ERR;
+           }
+
+           _pam_drop(flag);
+           _pam_drop(dir);
+       }
+   }
+   return retval;
+}
+
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
{
@@ -446,6 +505,9 @@
                        motd_dir_path_split, num_motd_dir_paths,
                        report_missing);

+   /* Display the legal disclaimer only if necessary */
+   retval = display_legal(pamh);
+
 out:
   _pam_drop(motd_path_copy);
   _pam_drop(motd_path_split);
```

1.606 udisks 2.10.1-6ubuntu1.3

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

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

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

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

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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.

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You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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

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

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lib/compat/gettext.h
lib/compat/obstack.*
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Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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Jackson <ijackson@gnu.ai.mit.edu>. May be used and distributed
freely for any purpose. Changes by Christian Schwarz
<schwarz@monet.m.isar.de>, to make output conform to the Debian
Console Message Standard, also placed in public domain. Minor
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and --make-pidfile options, placed in public domain as well.

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1.610 fastapi 0.116.2

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THE SOFTWARE.
tiangolo:
 login: tiangolo
 count: 776
 avatarUrl:
https://avatars.githubusercontent.com/u/1326112?u=cb5d06e73a9e1998141b1641aa88e443c6717651&v=4
 url: https://github.com/tiangolo
dependabot:
 login: dependabot
 count: 113
 avatarUrl: https://avatars.githubusercontent.com/in/29110?v=4
 url: https://github.com/apps/dependabot
alejsdev:
 login: alejsdev
 count: 48
 avatarUrl:
https://avatars.githubusercontent.com/u/90076947?u=638c65283ac9e9e2c3a0f9d1e3370db4b8a2c58d&v=4
 url: https://github.com/alejsdev
pre-commit-ci:
 login: pre-commit-ci
 count: 41
 avatarUrl: https://avatars.githubusercontent.com/in/68672?v=4
 url: https://github.com/apps/pre-commit-ci
github-actions:
 login: github-actions
 count: 26
 avatarUrl: https://avatars.githubusercontent.com/in/15368?v=4
 url: https://github.com/apps/github-actions
Kludex:
 login: Kludex
 count: 23
 avatarUrl:

https://avatars.githubusercontent.com/u/7353520?u=df8a3f06ba8f55ae1967a3e2d5ed882903a4e330&v=4
 url: https://github.com/Kludex
dmontagu:
  login: dmontagu
 count: 17
 avatarUrl:
https://avatars.githubusercontent.com/u/35119617?u=540f30c937a6450812628b9592a1dfe91bbe148e&v=4
 url: https://github.com/dmontagu
euri10:
 login: euri10
 count: 13
 avatarUrl:
https://avatars.githubusercontent.com/u/1104190?u=321a2e953e6645a7d09b732786c7a8061e0f8a8b&v=4
 url: https://github.com/euri10
kantandane:
 login: kantandane
 count: 13
 avatarUrl:
https://avatars.githubusercontent.com/u/3978368?u=cccc199291f991a73b1ebba5abc735a948e0bd16&v=4
 url: https://github.com/kantandane
nilslindemann:
 login: nilslindemann
 count: 11
 avatarUrl:
https://avatars.githubusercontent.com/u/6892179?u=1dca6a22195d6cd1ab20737c0e19a4c55d639472&v=4
 url: https://github.com/nilslindemann
zhaohan-dong:
 login: zhaohan-dong
 count: 11
 avatarUrl:
https://avatars.githubusercontent.com/u/65422392?u=8260f8781f50248410ebfa4c9bf70e143fe5c9f2&v=4
 url: https://github.com/zhaohan-dong
mariacamilagl:
 login: mariacamilagl

 count: 9
 avatarUrl:
https://avatars.githubusercontent.com/u/11489395?u=4adb6986bf3debfc2b8216ae701f2bd47d73da7d&v=4
 url: https://github.com/mariacamilagl
handabaldeep:
 login: handabaldeep
 count: 9
 avatarUrl:
https://avatars.githubusercontent.com/u/12239103?u=6c39ef15d14c6d5211f5dd775cc4842f8d7f2f3a&v=4
 url: https://github.com/handabaldeep
vishnuvskvkl:
 login: vishnuvskvkl
 count: 8

avatarUrl:
https://avatars.githubusercontent.com/u/84698110?u=8af5de0520dd4fa195f53c2850a26f57c0f6bc64&v=4
url: https://github.com/vishnuvskvkl
svlandeg:
login: svlandeg
count: 7
avatarUrl:
https://avatars.githubusercontent.com/u/8796347?u=556c97650c27021911b0b9447ec55e75987b0e8a&v=4
url: https://github.com/svlandeg
alissadb:
login: alissadb
count: 6
avatarUrl:
https://avatars.githubusercontent.com/u/96190409?u=be42d85938c241be781505a5a872575be28b2906&v=4
url: https://github.com/alissadb
YuriiMotov:
login: YuriiMotov
count: 6
avatarUrl:
https://avatars.githubusercontent.com/u/109919500?u=b9b13d598dddfab529a52d264df80a900bfe7060&v=4
url: https://github.com/YuriiMotov
wshayes:
login: wshayes
count: 5
avatarUrl: https://avatars.githubusercontent.com/u/365303?u=07ca03c5ee811eb0920e633cc3c3db73dbec1aa5&v=4
url: https://github.com/wshayes
samuelcolvin:
login: samuelcolvin
count: 5
avatarUrl:
https://avatars.githubusercontent.com/u/4039449?u=42eb3b833047c8c4b4f647a031eaef148c16d93f&v=4
url: https://github.com/samuelcolvin
waynerv:
login: waynerv
count: 5
avatarUrl:
https://avatars.githubusercontent.com/u/39515546?u=ec35139777597cdbbbddda29bf8b9d4396b429a9&v=4
url: https://github.com/waynerv
krishnamadhavan:
login: krishnamadhavan
count: 5
avatarUrl:
https://avatars.githubusercontent.com/u/31798870?u=950693b28f3ae01105fd545c046e46ca3d31ab06&v=4
url: https://github.com/krishnamadhavan
alv2017:
login: alv2017
count: 5
avatarUrl: https://avatars.githubusercontent.com/u/31544722?v=4

url: https://github.com/alv2017
jekirl:
login: jekirl
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/2546697?u=a027452387d85bd4a14834e19d716c99255fb3b7&v=4
url: https://github.com/jekirl
hitrust:
login: hitrust
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/3360631?u=5fa1f475ad784d64eb9666bdd43cc4d285dcc773&v=4
url: https://github.com/hitrust
ShahriyarR:
login: ShahriyarR
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/3852029?u=631b2ae59360ab380c524b32bc3d245aff1165af&v=4
url: https://github.com/ShahriyarR
adriangb:
login: adriangb
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/1755071?u=612704256e38d6ac9cbed24f10e4b6ac2da74ecb&v=4
url: https://github.com/adriangb
iudeen:
login: iudeen
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/10519440?u=f09cdd745e5bf16138f29b42732dd57c7f02bee1&v=4
url: https://github.com/iudeen
philipokiokio:
login: philipokiokio
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/55271518?u=d30994d339aaaf1f6bf1b8fc810132016fbd4fdc&v=4
url: https://github.com/philipokiokio
AlexWendland:
login: AlexWendland
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/3949212?u=c4c0c615e0ea33d00bfe16b779cf6ebc0f58071c&v=4
url: https://github.com/AlexWendland
divums:
login: divums
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/1397556?v=4
url: https://github.com/divums

prostomarkeloff:
 login: prostomarkeloff
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/28061158?u=6918e39a1224194ba636e897461a02a20126d7ad&v=4
 url: https://github.com/prostomarkeloff
nsidnev:
 login: nsidnev
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/22559461?u=a9cc3238217e21dc8796a1a500f01b722adb082c&v=4
 url: https://github.com/nsidnev
pawamoy:
 login: pawamoy
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/3999221?u=b030e4c89df2f3a36bc4710b925bdeb6745c9856&v=4
 url: https://github.com/pawamoy
patrickmckenna:
  login: patrickmckenna
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/3589536?u=53aef07250d226d35e526768e26891964907b41a&v=4
 url: https://github.com/patrickmckenna
hukkin:
 login: hukkin
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/3275109?u=77bb83759127965eacbfe67e2ca983066e964fde&v=4
 url: https://github.com/hukkin
marcosmmb:
 login: marcosmmb
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/6181089?u=03c50eec631857d84df5232890780d00a3f76903&v=4
 url: https://github.com/marcosmmb
Serrones:
 login: Serrones
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/22691749?u=4795b880e13ca33a73e52fc0ef7dc9c60c8fce47&v=4
 url: https://github.com/Serrones
uriyyo:
 login: uriyyo
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/32038156?u=a27b65a9ec3420586a827a0facccbb8b6df1ffb3&v=4
 url: https://github.com/uriyyo

andrew222651:
 login: andrew222651
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/889657?u=d70187989940b085bcbfa3bedad8dbc5f3ab1fe7&v=4
  url: https://github.com/andrew222651
rkbeatss:
 login: rkbeatss
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/23391143?u=56ab6bff50be950fa8cae5cf736f2ae66e319ff3&v=4
 url: https://github.com/rkbeatss
asheux:
 login: asheux
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/22955146?u=4553ebf5b5a7c7fe031a46182083aa224faba2e1&v=4
 url: https://github.com/asheux
blkst8:
 login: blkst8
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/49960770?u=7d8a6d5f0a75a5e9a865a2527edfd48895ea27ae&v=4
 url: https://github.com/blkst8
ghandic:
 login: ghandic
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/23500353?u=e2e1d736f924d9be81e8bfc565b6d8836ba99773&v=4
 url: https://github.com/ghandic
TeoZosa:
 login: TeoZosa
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/13070236?u=96fdae85800ef85dcfcc4b5f8281dc8778c8cb7d&v=4
 url: https://github.com/TeoZosa
graingert:
  login: graingert
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/413772?v=4
 url: https://github.com/graingert
jaystone776:
 login: jaystone776
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/11191137?u=299205a95e9b6817a43144a48b643346a5aac5cc&v=4
 url: https://github.com/jaystone776
zanieb:
 login: zanieb
 count: 3

avatarUrl: https://avatars.githubusercontent.com/u/2586601?u=e5c86f7ff3b859e7e183187ac2b17fd6ee32b3ab&v=4
url: https://github.com/zanieb
MicaelJarniac:
login: MicaelJarniac
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/19514231?u=158c91874ea98d6e9e6f0c6db37ee2ce60c55ff2&v=4
url: https://github.com/MicaelJarniac
papb:
login: papb
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/20914054?u=890511fae7ea90d887e2a65ce44a1775abba38d5&v=4
url: https://github.com/papb
musicinmybrain:
login: musicinmybrain
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/6898909?u=9010312053e7141383b9bdf538036c7f37fbaba0&v=4
url: https://github.com/musicinmybrain
gitworkflows:
login: gitworkflows
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/118260833?v=4
url: https://github.com/gitworkflows
Nimitha-jagadeesha:
login: Nimitha-jagadeesha
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/58389915?v=4
url: https://github.com/Nimitha-jagadeesha
lucaromagnoli:
login: lucaromagnoli
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/38782977?u=e66396859f493b4ddcb3a837a1b2b2039c805417&v=4
url: https://github.com/lucaromagnoli
salmantec:
login: salmantec
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/41512228?u=443551b893ff2425c59d5d021644f098cf7c68d5&v=4
url: https://github.com/salmantec
OCE1960:
login: OCE1960
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/45076670?u=0e9a44712b92ffa89ddfbaa83c112f3f8e1d68e2&v=4
url: https://github.com/OCE1960

hamidrasti:
 login: hamidrasti
 count:
 3
 avatarUrl: https://avatars.githubusercontent.com/u/43915620?v=4
 url: https://github.com/hamidrasti
valentinDruzhinin:
 login: valentinDruzhinin
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/12831905?u=aae1ebc675c91e8fa582df4fcc4fc4128106344d&v=4
 url: https://github.com/valentinDruzhinin
kkinder:
 login: kkinder
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1115018?u=c5e90284a9f5c5049eae1bb029e3655c7dc913ed&v=4
 url: https://github.com/kkinder
kabirkhan:
 login: kabirkhan
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13891834?u=e0eabf792376443ac853e7dca6f550db4166fe35&v=4
 url: https://github.com/kabirkhan
zamiramir:
 login: zamiramir
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/40475662?u=e58ef61034e8d0d6a312cc956fb09b9c3332b449&v=4
 url: https://github.com/zamiramir
trim21:
 login: trim21
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13553903?u=3cadf0f02095c9621aa29df6875f53a80ca4fbfb&v=4
  url: https://github.com/trim21
koxudaxi:
 login: koxudaxi
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/630670?u=507d8577b4b3670546b449c4c2ccbc5af40d72f7&v=4
 url: https://github.com/koxudaxi
pablogamboa:
 login: pablogamboa
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/12892536?u=326a57059ee0c40c4eb1b38413957236841c631b&v=4
 url: https://github.com/pablogamboa
dconathan:

```
 login: dconathan
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/15098095?v=4
 url: https://github.com/dconathan
Jamim:
 login: Jamim
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/5607572?u=9ce0b6a6d1a5124e28b3c04d8d26827ca328713a&v=4
 url: https://github.com/Jamim
svalouch:
 login: svalouch
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/54674660?v=4
 url: https://github.com/svalouch
frankie567:
 login: frankie567
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1144727?u=c159fe047727aedecbbeeaa96a1b03ceb9d39add&v=4
  url: https://github.com/frankie567
marier-nico:
 login: marier-nico
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/30477068?u=c7df6af853c8f4163d1517814f3e9a0715c82713&v=4
 url: https://github.com/marier-nico
Dustyposa:
 login: Dustyposa
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/27180793?u=5cf2877f50b3eb2bc55086089a78a36f07042889&v=4
 url: https://github.com/Dustyposa
aviramha:
 login: aviramha
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/41201924?u=6883cc4fc13a7b2e60d4deddd4be06f9c5287880&v=4
 url: https://github.com/aviramha
iwpnd:
 login: iwpnd
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/6152183?u=ec59396e9437fff488791c5ecdf6d23f1f1ebf3a&v=4
 url: https://github.com/iwpnd
raphaelauv:
 login: raphaelauv
 count: 2
 avatarUrl:
```

https://avatars.githubusercontent.com/u/10202690?u=e6f86f5c0c3026a15d6b51792fa3e532b12f1371&v=4
 url: https://github.com/raphaelauv
windson:
 login:
 windson
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1826682?u=8b28dcd716c46289f191f8828e01d74edd058bef&v=4
 url: https://github.com/windson
sm-Fifteen:
 login: sm-Fifteen
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/516999?u=437c0c5038558c67e887ccd863c1ba0f846c03da&v=4
 url: https://github.com/sm-Fifteen
sattosan:
 login: sattosan
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/20574756?u=b0d8474d2938189c6954423ae8d81d91013f80a8&v=4
 url: https://github.com/sattosan
michaeloliverx:
 login: michaeloliverx
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/55017335?u=efb0cb6e261ff64d862fafb91ee80fc2e1f8a2ed&v=4
 url: https://github.com/michaeloliverx
voegtlel:
 login: voegtlel
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/5764745?u=db8df3d70d427928ab6d7dbfc395a4a7109c1d1b&v=4
 url: https://github.com/voegtlel
HarshaLaxman:
 login: HarshaLaxman
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/19939186?u=a112f38b0f6b4d4402dc8b51978b5a0b2e5c5970&v=4
  url: https://github.com/HarshaLaxman
RunningIkkyu:
 login: RunningIkkyu
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/31848542?u=494ecc298e3f26197495bb357ad0f57cfd5f7a32&v=4
 url: https://github.com/RunningIkkyu
cassiobotaro:
 login: cassiobotaro
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/3127847?u=a08022b191ddbd0a6159b2981d9d878b6d5bb71f&v=4

```
 url: https://github.com/cassiobotaro
chenl:
 login: chenl
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1677651?u=c618508eaad6d596cea36c8ea784b424288f6857&v=4
 url: https://github.com/chenl
retnikt:
 login: retnikt
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/24581770?v=4
 url: https://github.com/retnikt
yankeexe:
 login: yankeexe
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13623913?u=f970e66421775a8d3cdab89c0c752eaead186f6d&v=4
 url: https://github.com/yankeexe
patrickkwang:
  login: patrickkwang
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1263870?u=4bf74020e15be490f19ef8322a76eec882220b96&v=4
 url: https://github.com/patrickkwang
victorphoenix3:
 login: victorphoenix3
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/48182195?u=e4875bd088623cb4ddeb7be194ec54b453aff035&v=4
 url: https://github.com/victorphoenix3
davidefiocco:
 login: davidefiocco
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/4547987?v=4
 url: https://github.com/davidefiocco
adriencaccia:
 login: adriencaccia
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/19605940?u=9a59081f46bfc9d839886a49d5092cf572879049&v=4
 url: https://github.com/adriencaccia
jamescurtin:
 login: jamescurtin
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/10189269?u=0b491fc600ca51f41cf1d95b49fa32a3eba1de57&v=4
 url: https://github.com/jamescurtin
jmriebold:
```

```
 login: jmriebold
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/6983392?u=4efdc97bf2422dcc7e9ff65b9ff80087c8eb2a20&v=4
  url: https://github.com/jmriebold
nukopy:
 login: nukopy
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/42367320?u=6061be0bd060506f6d564a8df3ae73fab048cdfe&v=4
 url: https://github.com/nukopy
imba-tjd:
 login: imba-tjd
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/24759802?u=01e901a4fe004b4b126549d3ff1c4000fe3720b5&v=4
 url: https://github.com/imba-tjd
johnthagen:
 login: johnthagen
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/10340167?u=47147fc4e4db1f573bee3fe428deeacb3197bc5f&v=4
 url: https://github.com/johnthagen
paxcodes:
 login: paxcodes
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13646646?u=e7429cc7ab11211ef762f4cd3efea7db6d9ef036&v=4
 url: https://github.com/paxcodes
kaustubhgupta:
 login: kaustubhgupta
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/43691873?u=8dd738718ac7ffad4ef31e86b5d780a1141c695d&v=4
  url: https://github.com/kaustubhgupta
kinuax:
 login: kinuax
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13321374?u=22dc9873d6d9f2c7e4fc44c6480c3505efb1531f&v=4
 url: https://github.com/kinuax
wakabame:
 login: wakabame
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/35513518?u=41ef6b0a55076e5c540620d68fb006e386c2ddb0&v=4
 url: https://github.com/wakabame
nzig:
 login: nzig
```

count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/7372858?u=e769add36ed73c778cdb136eb10bf96b1e119671&v=4
url: https://github.com/nzig
yezz123:
login: yezz123
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/52716203?u=d7062cbc6eb7671d5dc9cc0e32a24ae335e0f225&v=4
url: https://github.com/yezz123
softwarebloat:
login: softwarebloat
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/16540684?v=4
url: https://github.com/softwarebloat
Lancetnik:
login: Lancetnik
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/44573917?u=6eaa0cdd35259fba40a76b82e4903440cba03fa9&v=4
url: https://github.com/Lancetnik
joakimnordling:
login: joakimnordling
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/6637576?u=df5d99db9b899b399effd429f4358baaa6f7199c&v=4
url: https://github.com/joakimnordling
yogabonito:
login: yogabonito
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/7026269?v=4
url: https://github.com/yogabonito
s111d:
login: s111d
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/4954856?v=4
url: https://github.com/s111d
estebanx64:
login: estebanx64
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/10840422?u=1900887aeed268699e5ea6f3fb7db614f7b77cd3&v=4
url: https://github.com/estebanx64
tamird:
login: tamird
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/1535036?v=4
url: https://github.com/tamird

ndimares:
 login: ndimares
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/6267663?u=cfb27efde7a7212be8142abb6c058a1aeadb41b1&v=4
  url: https://github.com/ndimares
rabinlamadong:
 login: rabinlamadong
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/170439781?v=4
 url: https://github.com/rabinlamadong
AyushSinghal1794:
 login: AyushSinghal1794
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/89984761?v=4
 url: https://github.com/AyushSinghal1794
gsheni:
 login: gsheni
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/8726321?u=ee3bd9ff6320f4715d1dd9671a3d55cccb65b984&v=4
 url: https://github.com/gsheni
chailandau:
 login: chailandau
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/112015853?u=2e6aaf2b1647db43834aabeae8d8282b4ec01873&v=4
 url: https://github.com/chailandau
DanielKusyDev:
 login: DanielKusyDev
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/36250676?u=2ea6114ff751fc48b55f231987a0e2582c6b1bd2&v=4
 url: https://github.com/DanielKusyDev
DanielYang59:
 login: DanielYang59
 count:
 2
 avatarUrl:
https://avatars.githubusercontent.com/u/80093591?u=63873f701c7c74aac83c906800a1dddc0bc8c92f&v=4
 url: https://github.com/DanielYang59
blueswen:
 login: blueswen
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1564148?u=6d6b8cc8f2b5cef715e68d6175154a8a94d518ee&v=4
 url: https://github.com/blueswen
Taoup:

```
 login: Taoup
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/22348542?v=4
 url: https://github.com/Taoup
name: FastAPI People Contributors

on:
 schedule:
   - cron: "0 3 1 * *"
 workflow_dispatch:
   inputs:
     debug_enabled:
       description: "Run the build with tmate debugging enabled (https://github.com/marketplace/actions/debugging-
with-tmate)"
       required: false
       default: "false"

env:
 UV_SYSTEM_PYTHON: 1

jobs:
 job:
   if: github.repository_owner == 'fastapi'
   runs-on: ubuntu-latest
   permissions:
     contents: write
   steps:
     - name: Dump GitHub context
       env:
         GITHUB_CONTEXT: ${{ toJson(github) }}
       run: echo "$GITHUB_CONTEXT"
     - uses: actions/checkout@v5
     - name: Set up Python
       uses: actions/setup-python@v6
       with:
         python-version: "3.11"
     - name: Setup uv
       uses: astral-sh/setup-uv@v6
       with:
         version: "0.4.15"
         enable-cache: true
         cache-dependency-glob: |
           requirements**.txt
           pyproject.toml
     - name: Install Dependencies
        run: uv pip install -r requirements-github-actions.txt
     # Allow debugging with tmate
     - name: Setup tmate session
```

```
      uses: mxschmitt/action-tmate@v3
      if: ${{ github.event_name == 'workflow_dispatch' && github.event.inputs.debug_enabled == 'true' }}
      with:
        limit-access-to-actor: true
      env:
        GITHUB_TOKEN: ${{ secrets.FASTAPI_PR_TOKEN }}
    - name: FastAPI People Contributors
      run: python ./scripts/contributors.py
      env:
        GITHUB_TOKEN: ${{ secrets.FASTAPI_PR_TOKEN }}
```

1.611 alembic 1.16.5

1.611.1 Available under license :

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1.612 openssl 3.0.13-0ubuntu3.6

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Paragraphs 1 and 2 above; or,

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accompany the operating system on which the executable
file runs, or for standard header files or definitions files that

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when it starts in an interactive mode:

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The hypothetical commands `show w' and `show c' should show the
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necessary. Here a sample; alter
the names:

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>>> freebsd-base64-4.8
>>>
unicode-5.0

==========

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.614 libtpms 0.9.3-0ubuntu4.24.04.1

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1.615 qemu 1:8.2.2+ds-0ubuntu1.10

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```
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*  x86_64 system call definitions
*
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

#define __USER_CS (0x33)
#define __USER_DS (0x2B)

struct target_pt_regs {
 abi_ulong r15;
```

```
 abi_ulong r14;
 abi_ulong r13;
 abi_ulong r12;
 abi_ulong rbp;
 abi_ulong rbx;
/* arguments: non interrupts/non tracing syscalls only save up to here */
 abi_ulong
 r11;
 abi_ulong r10;
 abi_ulong r9;
 abi_ulong r8;
 abi_ulong rax;
 abi_ulong rcx;
 abi_ulong rdx;
 abi_ulong rsi;
 abi_ulong rdi;
 abi_ulong orig_rax;
/* end of arguments */
/* cpu exception frame or undefined */
 abi_ulong rip;
 abi_ulong cs;
 abi_ulong eflags;
 abi_ulong rsp;
 abi_ulong ss;
/* top of stack page */
};

/* Maximum number of LDT entries supported. */
#define TARGET_LDT_ENTRIES 8192
/* The size of each LDT entry. */
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES 16
#define TARGET_GDT_ENTRY_TLS_ENTRIES 3
#define TARGET_GDT_ENTRY_TLS_MIN 12
#define TARGET_GDT_ENTRY_TLS_MAX 14

#if 0 // Redefine this
struct target_modify_ldt_ldt_s {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
 unsigned int  seg_32bit:1;
 unsigned int  contents:2;
 unsigned int  read_exec_only:1;
 unsigned int  limit_in_pages:1;
 unsigned int  seg_not_present:1;
 unsigned int  useable:1;
```

```
 unsigned int  lm:1;
};
#else
struct target_modify_ldt_ldt_s
 {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
      unsigned int flags;
};
#endif

struct target_ipc64_perm
{
 int  key;
 uint32_t uid;
 uint32_t gid;
 uint32_t cuid;
 uint32_t cgid;
 unsigned short  mode;
 unsigned short  __pad1;
 unsigned short  seq;
 unsigned short  __pad2;
 abi_ulong  __unused1;
 abi_ulong  __unused2;
};

struct target_msqid64_ds {
 struct target_ipc64_perm msg_perm;
 unsigned int msg_stime; /* last msgsnd time */
 unsigned int msg_rtime; /* last msgrcv time */
 unsigned int msg_ctime; /* last change time */
 abi_ulong  msg_cbytes; /* current number of bytes on queue */
 abi_ulong  msg_qnum; /* number of messages in queue */
 abi_ulong  msg_qbytes; /* max number of bytes on queue */
 unsigned int msg_lspid; /* pid of last msgsnd */
 unsigned int msg_lrpid; /* last receive pid */
 abi_ulong  __unused4;
 abi_ulong  __unused5;
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
    /*
 I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
```

```
   /* xxxxx */
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10

#define TARGET_FREEBSD_AMD64_GET_FSBASE 128
#define TARGET_FREEBSD_AMD64_SET_FSBASE 129
#define TARGET_FREEBSD_AMD64_GET_GSBASE 130
#define TARGET_FREEBSD_AMD64_SET_GSBASE 131


#define UNAME_MACHINE          "x86_64"
#define TARGET_HW_MACHINE      "amd64"
#define TARGET_HW_MACHINE_ARCH  "amd64"

#define TARGET_ARCH_SET_GS 0x1001
#define TARGET_ARCH_SET_FS 0x1002
#define TARGET_ARCH_GET_FS 0x1003
#define TARGET_ARCH_GET_GS 0x1004

#endif /* TARGET_SYSCALL_H */
```

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Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
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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) 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.

```
/*
*  FreeBSD strace list
*
*
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*  (at your option) any later version.
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*
*  You should have received a copy of the GNU General Public License
*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___getcwd, "__getcwd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
 "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_get, "cap_ioctls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_limit,
 "cap_ioctls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
 NULL },
{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{
 TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
 "freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid",
 "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname,
 "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
 "freebsd11_lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
 "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
 "posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
 "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
 "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
```

{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
NULL },
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```
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*  OpenBSD setup_initial_stack() implementation.
*
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*/

#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
  abi_ulong *stringp)
{
  int i;
  abi_ulong stack_base;

  stack_base
 = (target_stkbas + target_stksiz) -
            MAX_ARG_PAGES * TARGET_PAGE_SIZE;
  if (p) {
     *p = stack_base;
  }
  if (stringp) {
     *stringp = stack_base;
  }

  for (i = 0; i < MAX_ARG_PAGES; i++) {
     if (bprm->page[i]) {
        info->rss++;
        if (!memcpy_to_target(stack_base, bprm->page[i],
                TARGET_PAGE_SIZE)) {
           errno = EFAULT;
```

```
            return -1;
          }
          g_free(bprm->page[i]);
        }
        stack_base += TARGET_PAGE_SIZE;
    }

    return 0;
}

#endif /* TARGET_OS_STACK_H */
```

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*/

#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_netbsd

#endif /* HOST_OS_H */
/*
* FreeBSD has a common ucontext definition for all architectures.
*
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*/
#ifndef TARGET_OS_UCONTEXT_H
#define TARGET_OS_UCONTEXT_H

/*
* Defines the common bits for all of FreeBSD's architectures. Has to be
* included AFTER the MD target_mcontext_t is defined, however, so can't
* be in the grab-bag that is target_os_signal.h.
*/

/* See FreeBSD's sys/ucontext.h */
#define TARGET_MC_GET_CLEAR_RET 0x0001

/* FreeBSD's sys/_ucontext.h structures */
typedef struct target_ucontext {
  target_sigset_t     uc_sigmask;
  target_mcontext_t   uc_mcontext;
```

```
  abi_ulong          uc_link;
  target_stack_t     uc_stack;
  int32_t            uc_flags;
  int32_t            __spare__[4];
} target_ucontext_t;

G_STATIC_ASSERT(TARGET_MCONTEXT_SIZE == sizeof(target_mcontext_t));
G_STATIC_ASSERT(TARGET_UCONTEXT_SIZE == sizeof(target_ucontext_t));

struct target_sigframe;

abi_long
 set_sigtramp_args(CPUArchState *env, int sig,
                   struct target_sigframe *frame,
                   abi_ulong frame_addr,
                   struct target_sigaction *ka);
abi_long get_mcontext(CPUArchState *env, target_mcontext_t *mcp, int flags);
abi_long set_mcontext(CPUArchState *env, target_mcontext_t *mcp, int srflag);
abi_long get_ucontext_sigreturn(CPUArchState *env, abi_ulong target_sf,
                        abi_ulong *target_uc);

#endif /* TARGET_OS_UCONTEXT_H */
```

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```
if not have_bsd_user
  subdir_done()
endif

bsd_user_ss = ss.source_set()

common_user_inc += include_directories('include')

bsd_user_ss.add(files(
 'bsd-mem.c',
 'bsd-proc.c',
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'uaccess.c',
))

elf = cc.find_library('elf', required: true)
procstat = cc.find_library('procstat', required: true)
kvm = cc.find_library('kvm', required: true)
bsd_user_ss.add(elf, procstat, kvm)

# Pull in the OS-specific build glue, if any
subdir(targetos)

specific_ss.add_all(when: 'CONFIG_BSD_USER', if_true: bsd_user_ss)
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*  FreeBSD VM parameters definitions
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*/

#ifndef TARGET_OS_VMPARAM_H
#define TARGET_OS_VMPARAM_H

#include "target_arch_vmparam.h"

/* Compare to sys/exec.h */
struct target_ps_strings {
  abi_ulong ps_argvstr;
  uint32_t ps_nargvstr;
  abi_ulong ps_envstr;
  uint32_t ps_nenvstr;
};

extern
 abi_ulong target_stkbas;
extern abi_ulong target_stksiz;

#define TARGET_PS_STRINGS  ((target_stkbas + target_stksiz) - \
                    sizeof(struct target_ps_strings))

#endif /* TARGET_OS_VMPARAM_H */
/*
* host-signal.h: signal info dependent on the host architecture
*
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*/

#ifndef I386_HOST_SIGNAL_H
#define I386_HOST_SIGNAL_H

#include <sys/param.h>
#include <sys/ucontext.h>
#include <machine/trap.h>
#include <vm/pmap.h>
#include <machine/pmap.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
  return uc->uc_mcontext.mc_eip;
```

```
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.mc_eip = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
{
  /*
   * Look in sys/i386/i386/trap.c. NOTE: mc_err == tr_err due to type punning
   * between a trapframe and mcontext on FreeBSD/i386.
   */
  return uc->uc_mcontext.mc_trapno == T_PAGEFLT &&
      uc->uc_mcontext.mc_err & PGEX_W;
}

#endif
/*
* ARM 32-bit specific prototypes for bsd-user
*
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*/

#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

#include "qemu.h"
#include "target/arm/cpu-features.h"

void target_cpu_set_tls(CPUARMState *env, target_ulong newtls);
target_ulong target_cpu_get_tls(CPUARMState *env);

#endif /* TARGET_ARCH_H */
```

```
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*  arm VM parameters definitions
*
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*/

#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to sys/arm/include/vmparam.h */
#define TARGET_MAXTSIZ      (64 * MiB)          /* max text size */
#define TARGET_DFLDSIZ      (128 * MiB)         /* initial data size
 limit */
#define TARGET_MAXDSIZ      (512 * MiB)         /* max data size */
#define TARGET_DFLSSIZ      (4 * MiB)           /* initial stack size limit */
#define TARGET_MAXSSIZ      (64 * MiB)          /* max stack size */
#define TARGET_SGROWSIZ     (128 * KiB)         /* amount to grow stack */

#define TARGET_RESERVED_VA  0xf7000000

            /* KERNBASE - 512 MB */
#define TARGET_VM_MAXUSER_ADDRESS   (0xc0000000 - (512 * MiB))
#define TARGET_USRSTACK             TARGET_VM_MAXUSER_ADDRESS

static inline abi_ulong get_sp_from_cpustate(CPUARMState *state)
{
  return state->regs[13]; /* sp */
}

static inline void set_second_rval(CPUARMState *state, abi_ulong retval2)
{
  state->regs[1] = retval2;
}
```

```
#endif /* TARGET_ARCH_VMPARAM_H */
/*
*  x86_64 thread support
*
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*/

#ifndef TARGET_ARCH_THREAD_H
#define TARGET_ARCH_THREAD_H

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
  abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
  /* XXX */
}

static
 inline void target_thread_init(struct target_pt_regs *regs,
  struct image_info *infop)
{
  regs->rax = 0;
  regs->rsp = infop->start_stack;
  regs->rip = infop->entry;
  regs->rdi = infop->start_stack;
}

#endif /* TARGET_ARCH_THREAD_H */
/*
*  i386 ELF definitions
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#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x01001000
#define elf_check_arch(x) (((x) == EM_386) || ((x) == EM_486))

#define ELF_HWCAP       0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define ELF_CLASS       ELFCLASS32
#define
 ELF_DATA       ELFDATA2LSB
#define ELF_ARCH        EM_386

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096

#endif /* TARGET_ARCH_ELF_H */
/*
*  miscellaneous FreeBSD system call shims
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*/
```

```
#ifndef OS_MISC_H
#define OS_MISC_H

#include <sys/cpuset.h>
#include <sys/random.h>
#include <sched.h>

/*
* shm_open2 isn't exported, but the __sys_ alias is. We can use either for the
* static version, but to dynamically link we have to use the
 sys version.
*/
int __sys_shm_open2(const char *path, int flags, mode_t mode, int shmflags,
  const char *);

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300048
/* shm_open2(2) */
static inline abi_long do_freebsd_shm_open2(abi_ulong pathptr, abi_ulong flags,
  abi_long mode, abi_ulong shmflags, abi_ulong nameptr)
{
  int ret;
  void *uname, *upath;

  if (pathptr == (uintptr_t)SHM_ANON) {
     upath = SHM_ANON;
  } else {
     upath = lock_user_string(pathptr);
     if (upath == NULL) {
        return -TARGET_EFAULT;
     }
  }

  uname = NULL;
  if (nameptr != 0) {
     uname = lock_user_string(nameptr);
     if (uname == NULL) {
        unlock_user(upath, pathptr, 0);
        return -TARGET_EFAULT;
     }
  }
  ret = get_errno(__sys_shm_open2(upath,
           target_to_host_bitmask(flags, fcntl_flags_tbl), mode,
           target_to_host_bitmask(shmflags, shmflag_flags_tbl), uname));

  if (upath != SHM_ANON)
 {
     unlock_user(upath, pathptr, 0);
```

```
  }
  if (uname != NULL) {
     unlock_user(uname, nameptr, 0);
  }
  return ret;
}
#endif /* __FreeBSD_version >= 1300048 */

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300049
/* shm_rename(2) */
static inline abi_long do_freebsd_shm_rename(abi_ulong fromptr, abi_ulong toptr,
     abi_ulong flags)
{
  int ret;
  void *ufrom, *uto;

  ufrom = lock_user_string(fromptr);
  if (ufrom == NULL) {
     return -TARGET_EFAULT;
  }
  uto = lock_user_string(toptr);
  if (uto == NULL) {
     unlock_user(ufrom, fromptr, 0);
     return -TARGET_EFAULT;
  }
  ret = get_errno(shm_rename(ufrom, uto, flags));
  unlock_user(ufrom, fromptr, 0);
  unlock_user(uto, toptr, 0);

  return ret;
}
#endif /* __FreeBSD_version >= 1300049 */

#endif /* OS_MISC_H */
/*
*  FreeBSD amd64 register structures
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*/

#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/amd64/include/reg.h */
typedef struct target_reg {
  uint64_t       r_r15;
  uint64_t       r_r14;
  uint64_t       r_r13;
  uint64_t       r_r12;
  uint64_t
      r_r11;
  uint64_t       r_r10;
  uint64_t       r_r9;
  uint64_t       r_r8;
  uint64_t       r_rdi;
  uint64_t       r_rsi;
  uint64_t       r_rbp;
  uint64_t       r_rbx;
  uint64_t       r_rdx;
  uint64_t       r_rcx;
  uint64_t       r_rax;
  uint32_t       r_trapno;
  uint16_t       r_fs;
  uint16_t       r_gs;
  uint32_t       r_err;
  uint16_t       r_es;
  uint16_t       r_ds;
  uint64_t       r_rip;
  uint64_t       r_cs;
  uint64_t       r_rflags;
  uint64_t       r_rsp;
  uint64_t       r_ss;
} target_reg_t;

typedef struct target_fpreg {
  uint64_t       fpr_env[4];
  uint8_t        fpr_acc[8][16];
  uint8_t        fpr_xacc[16][16];
  uint64_t       fpr_spare[12];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
```

```
{

  regs->r_r15 = env->regs[15];
  regs->r_r14 = env->regs[14];
  regs->r_r13 = env->regs[13];
  regs->r_r12 = env->regs[12];
   regs->r_r11 = env->regs[11];
  regs->r_r10 = env->regs[10];
  regs->r_r9 = env->regs[9];
  regs->r_r8 = env->regs[8];
  regs->r_rdi = env->regs[R_EDI];
  regs->r_rsi = env->regs[R_ESI];
  regs->r_rbp = env->regs[R_EBP];
  regs->r_rbx = env->regs[R_EBX];
  regs->r_rdx = env->regs[R_EDX];
  regs->r_rcx = env->regs[R_ECX];
  regs->r_rax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
  regs->r_fs = env->segs[R_FS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_es = env->segs[R_ES].selector & 0xffff;
  regs->r_ds = env->segs[R_DS].selector & 0xffff;
  regs->r_rip = env->eip;
  regs->r_cs = env->segs[R_CS].selector & 0xffff;
  regs->r_rflags = env->eflags;
  regs->r_rsp = env->regs[R_ESP];
  regs->r_ss = env->segs[R_SS].selector & 0xffff;
}

#endif /* TARGET_ARCH_REG_H */
/*
*  FreeBSD dependent strace print functions
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```

```
*/

#include "target_arch_sysarch.h"    /* architecture dependent functions */


static inline void do_os_print_sysarch(const struct syscallname *name,
      abi_long arg1, abi_long arg2, abi_long arg3, abi_long arg4,
      abi_long arg5, abi_long arg6)
{
   /* This is arch dependent */
  do_freebsd_arch_print_sysarch(name, arg1, arg2, arg3, arg4, arg5, arg6);
}
/*
* host-signal.h: signal info dependent on the host architecture
*
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*/

#ifndef ARM_HOST_SIGNAL_H
#define ARM_HOST_SIGNAL_H

#include <sys/ucontext.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
  return uc->uc_mcontext.__gregs[_REG_PC];
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.__gregs[_REG_PC] = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
{
  /*
   * In the FSR, bit 11 is WnR. FreeBSD returns this as part of the
   * si_info.si_trapno.
   */
  uint32_t fsr = info->si_trapno;

  return extract32(fsr, 11, 1);
}

#endif
```

```
/*
*  FreeBSD host dependent code and definitions
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*/

#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_freebsd

#endif /* HOST_OS_H */
/*
*  FreeBSD thread dependent code and definitions
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*/

#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"
```

#endif /* TARGET_OS_THREAD_H */
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That's all there is to it!
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* Intel i386 sigcode for bsd-user
*
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*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{

  return 0;
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/* XXX OpenBSD dependent strace print functions */
```

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```
/*
* host-signal.h: signal info dependent on the host architecture
*
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*
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*/

#ifndef X86_64_HOST_SIGNAL_H
```

```
#define X86_64_HOST_SIGNAL_H

#include <sys/param.h>
#include <sys/ucontext.h>
#include <machine/trap.h>
#include <vm/pmap.h>
#include <machine/pmap.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
  return uc->uc_mcontext.mc_rip;
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.mc_rip = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
{
  /*
   * Look in sys/amd64/amd64/trap.c. NOTE: mc_err == tr_err due to type
   * punning between a trapframe and mcontext on FreeBSD/amd64.
   */
  return uc->uc_mcontext.mc_trapno == T_PAGEFLT &&
      uc->uc_mcontext.mc_err & PGEX_W;
}

#endif
```

License for Berkeley TestFloat Release 3e

John R. Hauser
2018 January 20

The following applies to the whole of TestFloat Release 3e as well as to
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#include "trace/trace-bsd_user.h"
/*
* memory management system call shims and definitions
*
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*/

#ifndef BSD_USER_BSD_MEM_H
#define BSD_USER_BSD_MEM_H

#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/mman.h>
#include <sys/shm.h>
#include <fcntl.h>

#include "qemu-bsd.h"

extern struct bsd_shm_regions bsd_shm_regions[];
extern abi_ulong target_brk;
extern abi_ulong initial_target_brk;

/* mmap(2) */
static inline abi_long do_bsd_mmap(void *cpu_env, abi_long arg1, abi_long arg2,
  abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6, abi_long arg7,
  abi_long arg8)
{
  if (regpairs_aligned(cpu_env) != 0) {
      arg6 = arg7;
      arg7 = arg8;
  }
  return get_errno(target_mmap(arg1, arg2,
 arg3,
                               target_to_host_bitmask(arg4, mmap_flags_tbl),
```

```
                        arg5, target_arg64(arg6, arg7)));
}

/* munmap(2) */
static inline abi_long do_bsd_munmap(abi_long arg1, abi_long arg2)
{
  return get_errno(target_munmap(arg1, arg2));
}

/* mprotect(2) */
static inline abi_long do_bsd_mprotect(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  return get_errno(target_mprotect(arg1, arg2, arg3));
}

/* msync(2) */
static inline abi_long do_bsd_msync(abi_long addr, abi_long len, abi_long flags)
{
  if (!guest_range_valid_untagged(addr, len)) {
      /* It seems odd, but POSIX wants this to be ENOMEM */
      return -TARGET_ENOMEM;
  }

  return get_errno(msync(g2h_untagged(addr), len, flags));
}

/* mlock(2) */
static inline abi_long do_bsd_mlock(abi_long arg1, abi_long arg2)
{
  if (!guest_range_valid_untagged(arg1, arg2)) {
      return -TARGET_EINVAL;
  }
  return get_errno(mlock(g2h_untagged(arg1), arg2));
}

/*
 munlock(2) */
static inline abi_long do_bsd_munlock(abi_long arg1, abi_long arg2)
{
  if (!guest_range_valid_untagged(arg1, arg2)) {
      return -TARGET_EINVAL;
  }
  return get_errno(munlock(g2h_untagged(arg1), arg2));
}

/* mlockall(2) */
static inline abi_long do_bsd_mlockall(abi_long arg1)
```

```
{
  return get_errno(mlockall(arg1));
}

/* munlockall(2) */
static inline abi_long do_bsd_munlockall(void)
{
  return get_errno(munlockall());
}

/* madvise(2) */
static inline abi_long do_bsd_madvise(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_ulong len;
  int ret = 0;
  abi_long start = arg1;
  abi_long len_in = arg2;
  abi_long advice = arg3;

  if (start & ~TARGET_PAGE_MASK) {
     return -TARGET_EINVAL;
  }
  if (len_in == 0) {
     return 0;
  }
  len = TARGET_PAGE_ALIGN(len_in);
  if (len == 0 || !guest_range_valid_untagged(start, len)) {
     return -TARGET_EINVAL;
  }

  /*
   * Most advice values are hints, so ignoring
 and returning success is ok.
   *
   * However, some advice values such as MADV_DONTNEED, are not hints and
   * need to be emulated.
   *
   * A straight passthrough for those may not be safe because qemu sometimes
   * turns private file-backed mappings into anonymous mappings.
   * If all guest pages have PAGE_PASSTHROUGH set, mappings have the
   * same semantics for the host as for the guest.
   *
   * MADV_DONTNEED is passed through, if possible.
   * If passthrough isn't possible, we nevertheless (wrongly!) return
   * success, which is broken but some userspace programs fail to work
   * otherwise. Completely implementing such emulation is quite complicated
   * though.
```

```
     */
    mmap_lock();
    switch (advice) {
    case MADV_DONTNEED:
        if (page_check_range(start, len, PAGE_PASSTHROUGH)) {
            ret = get_errno(madvise(g2h_untagged(start), len, advice));
            if (ret == 0) {
                page_reset_target_data(start,
 start + len - 1);
            }
        }
    }
    mmap_unlock();

    return ret;
}

/* minherit(2) */
static inline abi_long do_bsd_minherit(abi_long addr, abi_long len,
        abi_long inherit)
{
    return get_errno(minherit(g2h_untagged(addr), len, inherit));
}

/* mincore(2) */
static inline abi_long do_bsd_mincore(abi_ulong target_addr, abi_ulong len,
        abi_ulong target_vec)
{
    abi_long ret;
    void *p;
    abi_ulong vec_len = DIV_ROUND_UP(len, TARGET_PAGE_SIZE);

    if (!guest_range_valid_untagged(target_addr, len)
        || !page_check_range(target_addr, len, PAGE_VALID)) {
        return -TARGET_EFAULT;
    }

    p = lock_user(VERIFY_WRITE, target_vec, vec_len, 0);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(mincore(g2h_untagged(target_addr), len, p));
    unlock_user(p, target_vec, vec_len);

    return ret;
}

/* do_brk() must return target values and target errnos. */
```

```
static inline abi_long do_obreak(abi_ulong brk_val)
{
    abi_long mapped_addr;
  abi_ulong new_brk;
  abi_ulong old_brk;

  /* brk pointers are always untagged */

  /* do not allow to shrink below initial brk value */
  if (brk_val < initial_target_brk) {
      return target_brk;
  }

  new_brk = TARGET_PAGE_ALIGN(brk_val);
  old_brk = TARGET_PAGE_ALIGN(target_brk);

  /* new and old target_brk might be on the same page */
  if (new_brk == old_brk) {
      target_brk = brk_val;
      return target_brk;
  }

  /* Release heap if necessary */
  if (new_brk < old_brk) {
      target_munmap(new_brk, old_brk - new_brk);

      target_brk = brk_val;
      return target_brk;
  }

  mapped_addr = target_mmap(old_brk, new_brk - old_brk,
                            PROT_READ | PROT_WRITE,
                            MAP_FIXED | MAP_EXCL | MAP_ANON | MAP_PRIVATE,
                            -1, 0);

  if (mapped_addr == old_brk) {
      target_brk = brk_val;
      return target_brk;
  }

  /*
 For everything else, return the previous break. */
  return target_brk;
}

/* shm_open(2) */
static inline abi_long do_bsd_shm_open(abi_ulong arg1, abi_long arg2,
      abi_long arg3)
```

```
{
  int ret;
  void *p;

  if (arg1 == (uintptr_t)SHM_ANON) {
     p = SHM_ANON;
  } else {
     p = lock_user_string(arg1);
     if (p == NULL) {
        return -TARGET_EFAULT;
     }
  }
  ret = get_errno(shm_open(p, target_to_host_bitmask(arg2, fcntl_flags_tbl),
                           arg3));

  if (p != SHM_ANON) {
     unlock_user(p, arg1, 0);
  }

  return ret;
}

/* shm_unlink(2) */
static inline abi_long do_bsd_shm_unlink(abi_ulong arg1)
{
  int ret;
  void *p;

  p = lock_user_string(arg1);
  if (p == NULL) {
     return -TARGET_EFAULT;
  }
  ret = get_errno(shm_unlink(p)); /* XXX path(p)? */
  unlock_user(p, arg1, 0);

  return ret;
}

/* shmget(2) */
static inline abi_long do_bsd_shmget(abi_long arg1, abi_ulong arg2,
      abi_long
 arg3)
{
  return get_errno(shmget(arg1, arg2, arg3));
}

/* shmctl(2) */
static inline abi_long do_bsd_shmctl(abi_long shmid, abi_long cmd,
```

```
        abi_ulong buff)
{
    struct shmid_ds dsarg;
    abi_long ret = -TARGET_EINVAL;

    cmd &= 0xff;

    switch (cmd) {
    case IPC_STAT:
        if (target_to_host_shmid_ds(&dsarg, buff)) {
            return -TARGET_EFAULT;
        }
        ret = get_errno(shmctl(shmid, cmd, &dsarg));
        if (host_to_target_shmid_ds(buff, &dsarg)) {
            return -TARGET_EFAULT;
        }
        break;

    case IPC_SET:
        if (target_to_host_shmid_ds(&dsarg, buff)) {
            return -TARGET_EFAULT;
        }
        ret = get_errno(shmctl(shmid, cmd, &dsarg));
        break;

    case IPC_RMID:
        ret = get_errno(shmctl(shmid, cmd, NULL));
        break;

    default:
        ret = -TARGET_EINVAL;
        break;
    }

    return ret;
}

/* shmat(2) */
static inline abi_long do_bsd_shmat(int shmid, abi_ulong shmaddr, int shmflg)
{
     abi_ulong raddr;
    abi_long ret;
    struct shmid_ds shm_info;

    /* Find out the length of the shared memory segment. */
    ret = get_errno(shmctl(shmid, IPC_STAT, &shm_info));
    if (is_error(ret)) {
        /* Can't get the length */
```

```
        return ret;
    }

    if (!guest_range_valid_untagged(shmaddr, shm_info.shm_segsz)) {
        return -TARGET_EINVAL;
    }

    WITH_MMAP_LOCK_GUARD() {
        void *host_raddr;

        if (shmaddr) {
            host_raddr = shmat(shmid, (void *)g2h_untagged(shmaddr), shmflg);
        } else {
            abi_ulong mmap_start;

            mmap_start = mmap_find_vma(0, shm_info.shm_segsz);

            if (mmap_start == -1) {
                return -TARGET_ENOMEM;
            }
            host_raddr = shmat(shmid, g2h_untagged(mmap_start),
                               shmflg | SHM_REMAP);
        }

        if (host_raddr == (void *)-1) {
            return get_errno(-1);
        }
        raddr = h2g(host_raddr);


        page_set_flags(raddr, raddr + shm_info.shm_segsz - 1,
                       PAGE_VALID | PAGE_RESET | PAGE_READ |
                       (shmflg & SHM_RDONLY ? 0 : PAGE_WRITE));

        for (int i = 0; i < N_BSD_SHM_REGIONS; i++) {
            if (bsd_shm_regions[i].start == 0) {
                bsd_shm_regions[i].start = raddr;
                bsd_shm_regions[i].size = shm_info.shm_segsz;
                break;
            }
        }
    }

    return raddr;
}

/* shmdt(2) */
static inline abi_long do_bsd_shmdt(abi_ulong shmaddr)
```

```
{
  abi_long ret;

  WITH_MMAP_LOCK_GUARD() {
    int i;

    for (i = 0; i < N_BSD_SHM_REGIONS; ++i) {
      if (bsd_shm_regions[i].start == shmaddr) {
        break;
      }
    }

    if (i == N_BSD_SHM_REGIONS) {
      return -TARGET_EINVAL;
    }

    ret = get_errno(shmdt(g2h_untagged(shmaddr)));
    if (ret == 0) {
      abi_ulong size = bsd_shm_regions[i].size;

      bsd_shm_regions[i].start
 = 0;
      page_set_flags(shmaddr, shmaddr + size - 1, 0);
      mmap_reserve(shmaddr, size);
    }
  }

  return ret;
}

static inline abi_long do_bsd_vadvise(void)
{
  /* See sys_ovadvise() in vm_unix.c */
  return -TARGET_EINVAL;
}

static inline abi_long do_bsd_sbrk(void)
{
  /* see sys_sbrk() in vm_mmap.c */
  return -TARGET_EOPNOTSUPP;
}

static inline abi_long do_bsd_sstk(void)
{
  /* see sys_sstk() in vm_mmap.c */
  return -TARGET_EOPNOTSUPP;
}
```

```
#endif /* BSD_USER_BSD_MEM_H */
/*
*  i386 dependent signal definitions
*
*
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*  it under the terms of the GNU General Public License as published by
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)             /* min sig stack size */
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

typedef struct target_mcontext {
  abi_ulong   mc_onstack;     /* XXX - sigcontext compat. */
  abi_ulong   mc_gs;          /* machine state (struct trapframe) */
  abi_ulong   mc_fs;
  abi_ulong   mc_es;
  abi_ulong   mc_ds;
  abi_ulong   mc_edi;
  abi_ulong   mc_esi;
  abi_ulong   mc_ebp;
  abi_ulong   mc_isp;
  abi_ulong   mc_ebx;
  abi_ulong   mc_edx;
  abi_ulong   mc_ecx;
  abi_ulong   mc_eax;
  abi_ulong   mc_trapno;
  abi_ulong   mc_err;
  abi_ulong   mc_eip;
```

```
  abi_ulong   mc_cs;
  abi_ulong   mc_eflags;
  abi_ulong   mc_esp;
  abi_ulong   mc_ss;

  int32_t     mc_len;               /* sizeof(mcontext_t) */
#define _MC_FPFMT_NODEV         0x10000 /* device not present or configured */
#define _MC_FPFMT_387           0x10001
#define _MC_FPFMT_XMM           0x10002
  int32_t     mc_fpformat;
#define _MC_FPOWNED_NONE        0x20000 /* FP state not used */
#define _MC_FPOWNED_FPU
       0x20001 /* FP state came from FPU */
#define _MC_FPOWNED_PCB         0x20002 /* FP state came from PCB */
  int32_t     mc_ownedfp;
  abi_ulong mc_flags;
     /*
      * See <machine/npx.h> for the internals of mc_fpstate[].
      */
  int32_t     mc_fpstate[128] __aligned(16);

  abi_ulong mc_fsbase;
  abi_ulong mc_gsbase;

  abi_ulong mc_xfpustate;
  abi_ulong mc_xfpustate_len;

  int32_t     mc_spare2[4];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 640
#define TARGET_UCONTEXT_SIZE 704

#include "target_os_ucontext.h"

struct target_sigframe {
  abi_ulong   sf_signum;
  abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
  abi_ulong   sf_ucontext;   /* points to sf_uc */
  abi_ulong   sf_addr;       /* undocumented 4th arg */
  target_ucontext_t   sf_uc; /* = *sf_ucontext */
  target_siginfo_t    sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
  uint32_t    __spare__[2];
};

#endif /* TARGET_ARCH_SIGNAL_H */
```

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Third Party Notices
==========

This project includes or partly uses code from the following open source
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libfdt

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The libfdt source code is disjunctively dual licensed (GPL-2.0+ or
BSD-2-Clause). Some of this project code is used in OpenSBI under the terms of
the BSD 2-Clause license. The full text of this license can be found in the
file COPYING.BSD.
/*
* System call numbers.
*
* DO NOT EDIT-- this file is automatically @generated.
* $FreeBSD$
*/

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
/* 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir 13
#define TARGET_FREEBSD_NR_freebsd11_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
/* 18 is freebsd4 getfsstat */
/* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid 20
#define TARGET_FREEBSD_NR_mount 21
#define
TARGET_FREEBSD_NR_unmount 22
#define TARGET_FREEBSD_NR_setuid 23

```
#define TARGET_FREEBSD_NR_getuid        24
#define TARGET_FREEBSD_NR_geteuid       25
#define TARGET_FREEBSD_NR_ptrace        26
#define TARGET_FREEBSD_NR_recvmsg       27
#define TARGET_FREEBSD_NR_sendmsg       28
#define TARGET_FREEBSD_NR_recvfrom      29
#define TARGET_FREEBSD_NR_accept        30
#define TARGET_FREEBSD_NR_getpeername   31
#define TARGET_FREEBSD_NR_getsockname   32
#define TARGET_FREEBSD_NR_access        33
#define TARGET_FREEBSD_NR_chflags       34
#define TARGET_FREEBSD_NR_fchflags      35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
                        /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid       39
                        /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup   41
#define TARGET_FREEBSD_NR_freebsd10_pipe        42
#define TARGET_FREEBSD_NR_getegid       43
#define TARGET_FREEBSD_NR_profil        44
#define
 TARGET_FREEBSD_NR_ktrace        45
                        /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid        47
                        /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin      49
#define TARGET_FREEBSD_NR_setlogin      50
#define TARGET_FREEBSD_NR_acct  51
                        /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack   53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot        55
#define TARGET_FREEBSD_NR_revoke        56
#define TARGET_FREEBSD_NR_symlink       57
#define TARGET_FREEBSD_NR_readlink      58
#define TARGET_FREEBSD_NR_execve        59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot        61
                        /* 62 is old fstat */
                        /* 63 is old getkerninfo */
                        /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66

                    /* 67 is obsolete vread */
                        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
```

```
#define TARGET_FREEBSD_NR_sstk  70
                        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_freebsd11_vadvise     72
#define TARGET_FREEBSD_NR_munmap        73
#define TARGET_FREEBSD_NR_mprotect      74
#define TARGET_FREEBSD_NR_madvise       75
                        /* 76 is obsolete vhangup */
                        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore       78
#define TARGET_FREEBSD_NR_getgroups     79
#define TARGET_FREEBSD_NR_setgroups     80
#define TARGET_FREEBSD_NR_getpgrp       81
#define TARGET_FREEBSD_NR_setpgid       82
#define TARGET_FREEBSD_NR_setitimer     83
                        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon        85
#define TARGET_FREEBSD_NR_getitimer     86
                        /* 87 is old gethostname */

                      /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select        93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket        97
#define TARGET_FREEBSD_NR_connect       98
                        /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
                        /* 101 is old send */
                        /* 102 is old recv */
                        /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen        106
                        /* 107 is obsolete vtimes */
                        /* 108 is old sigvec */
                        /* 109 is old sigblock */
                        /* 110 is old sigsetmask */
                         /* 111 is old sigsuspend */
                        /* 112 is old sigstack */
                        /* 113 is old recvmsg */
                        /* 114 is old sendmsg */
                        /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage     117
#define TARGET_FREEBSD_NR_getsockopt    118
```

```
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev        121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown        123
#define TARGET_FREEBSD_NR_fchmod        124
                        /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid      126
#define TARGET_FREEBSD_NR_setregid      127
#define TARGET_FREEBSD_NR_rename        128
                        /* 129 is old truncate */
                        /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo
    132
#define TARGET_FREEBSD_NR_sendto        133
#define TARGET_FREEBSD_NR_shutdown      134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes        138
                        /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime       140
                        /* 141 is old getpeername */
                        /* 142 is old gethostid */
                        /* 143 is old sethostid */
                        /* 144 is old getrlimit */
                        /* 145 is old setrlimit */
                        /* 146 is old killpg */
#define TARGET_FREEBSD_NR_setsid        147
#define TARGET_FREEBSD_NR_quotactl      148
                        /* 149 is old quota */
                        /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc
    155
                        /* 156 is old getdirentries */
                        /* 157 is freebsd4 statfs */
                        /* 158 is freebsd4 fstatfs */
#define TARGET_FREEBSD_NR_lgetfh        160
#define TARGET_FREEBSD_NR_getfh 161
                        /* 162 is freebsd4 getdomainname */
                        /* 163 is freebsd4 setdomainname */
                        /* 164 is freebsd4 uname */
#define TARGET_FREEBSD_NR_sysarch       165
#define TARGET_FREEBSD_NR_rtprio        166
#define TARGET_FREEBSD_NR_semsys        169
#define TARGET_FREEBSD_NR_msgsys        170
#define TARGET_FREEBSD_NR_shmsys        171
```

```
                        /* 173 is freebsd6 pread */
                        /* 174 is freebsd6 pwrite */
#define TARGET_FREEBSD_NR_setfib        175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid        181
#define TARGET_FREEBSD_NR_setegid
   182
#define TARGET_FREEBSD_NR_seteuid       183
                        /* 184 is obsolete lfs_bmapv */
                        /* 185 is obsolete lfs_markv */
                        /* 186 is obsolete lfs_segclean */
                        /* 187 is obsolete lfs_segwait */
#define TARGET_FREEBSD_NR_freebsd11_stat        188
#define TARGET_FREEBSD_NR_freebsd11_fstat       189
#define TARGET_FREEBSD_NR_freebsd11_lstat       190
#define TARGET_FREEBSD_NR_pathconf      191
#define TARGET_FREEBSD_NR_fpathconf     192
#define TARGET_FREEBSD_NR_getrlimit     194
#define TARGET_FREEBSD_NR_setrlimit     195
#define TARGET_FREEBSD_NR_freebsd11_getdirentries       196
                        /* 197 is freebsd6 mmap */
#define TARGET_FREEBSD_NR___syscall     198
                        /* 199 is freebsd6 lseek */
                        /* 200 is freebsd6 truncate */
                        /* 201 is freebsd6 ftruncate */
#define
 TARGET_FREEBSD_NR___sysctl      202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock       204
#define TARGET_FREEBSD_NR_undelete      205
#define TARGET_FREEBSD_NR_futimes       206
#define TARGET_FREEBSD_NR_getpgid       207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl     220
#define TARGET_FREEBSD_NR_semget        221
#define TARGET_FREEBSD_NR_semop 222
                        /* 223 is obsolete semconfig */
#define TARGET_FREEBSD_NR_freebsd7_msgctl       224
#define TARGET_FREEBSD_NR_msgget        225
#define TARGET_FREEBSD_NR_msgsnd        226
#define TARGET_FREEBSD_NR_msgrcv        227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl       229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget        231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres  234
```

```
#define TARGET_FREEBSD_NR_ktimer_create
 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime        237
#define TARGET_FREEBSD_NR_ktimer_gettime        238
#define TARGET_FREEBSD_NR_ktimer_getoverrun     239
#define TARGET_FREEBSD_NR_nanosleep     240
#define TARGET_FREEBSD_NR_ffclock_getcounter    241
#define TARGET_FREEBSD_NR_ffclock_setestimate   242
#define TARGET_FREEBSD_NR_ffclock_getestimate   243
#define TARGET_FREEBSD_NR_clock_nanosleep       244
#define TARGET_FREEBSD_NR_clock_getcpuclockid2  247
#define TARGET_FREEBSD_NR_ntp_gettime   248
#define TARGET_FREEBSD_NR_minherit      250
#define TARGET_FREEBSD_NR_rfork 251
                        /* 252 is obsolete openbsd_poll */
#define TARGET_FREEBSD_NR_issetugid     253
#define TARGET_FREEBSD_NR_lchown        254
#define TARGET_FREEBSD_NR_aio_read      255
#define TARGET_FREEBSD_NR_aio_write     256
#define TARGET_FREEBSD_NR_lio_listio    257
#define TARGET_FREEBSD_NR_freebsd11_getdents    272
#define TARGET_FREEBSD_NR_lchmod
      274
                        /* 275 is obsolete netbsd_lchown */
#define TARGET_FREEBSD_NR_lutimes       276
                        /* 277 is obsolete netbsd_msync */
#define TARGET_FREEBSD_NR_freebsd11_nstat       278
#define TARGET_FREEBSD_NR_freebsd11_nfstat      279
#define TARGET_FREEBSD_NR_freebsd11_nlstat      280
#define TARGET_FREEBSD_NR_preadv        289
#define TARGET_FREEBSD_NR_pwritev       290
                        /* 297 is freebsd4 fhstatfs */
#define TARGET_FREEBSD_NR_fhopen        298
#define TARGET_FREEBSD_NR_freebsd11_fhstat      299
#define TARGET_FREEBSD_NR_modnext       300
#define TARGET_FREEBSD_NR_modstat       301
#define TARGET_FREEBSD_NR_modfnext      302
#define TARGET_FREEBSD_NR_modfind       303
#define TARGET_FREEBSD_NR_kldload       304
#define TARGET_FREEBSD_NR_kldunload     305
#define TARGET_FREEBSD_NR_kldfind       306
#define TARGET_FREEBSD_NR_kldnext       307
#define TARGET_FREEBSD_NR_kldstat       308
#define
 TARGET_FREEBSD_NR_kldfirstmod   309
#define TARGET_FREEBSD_NR_getsid        310
#define TARGET_FREEBSD_NR_setresuid     311
```

```
#define TARGET_FREEBSD_NR_setresgid     312
                        /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return    314
#define TARGET_FREEBSD_NR_aio_suspend   315
#define TARGET_FREEBSD_NR_aio_cancel    316
#define TARGET_FREEBSD_NR_aio_error     317
                        /* 318 is freebsd6 aio_read */
                        /* 319 is freebsd6 aio_write */
                        /* 320 is freebsd6 lio_listio */
#define TARGET_FREEBSD_NR_yield 321
                        /* 322 is obsolete thr_sleep */
                        /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall      324
#define TARGET_FREEBSD_NR_munlockall    325
#define TARGET_FREEBSD_NR___getcwd      326
#define TARGET_FREEBSD_NR_sched_setparam        327
#define TARGET_FREEBSD_NR_sched_getparam
    328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield   331
#define TARGET_FREEBSD_NR_sched_get_priority_max        332
#define TARGET_FREEBSD_NR_sched_get_priority_min        333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace        335
                        /* 336 is freebsd4 sendfile */
#define TARGET_FREEBSD_NR_kldsym        337
#define TARGET_FREEBSD_NR_jail  338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask   340
#define TARGET_FREEBSD_NR_sigsuspend    341
                        /* 342 is freebsd4 sigaction */
#define TARGET_FREEBSD_NR_sigpending    343
                        /* 344 is freebsd4 sigreturn */
#define TARGET_FREEBSD_NR_sigtimedwait  345
#define TARGET_FREEBSD_NR_sigwaitinfo   346
#define TARGET_FREEBSD_NR___acl_get_file        347
#define TARGET_FREEBSD_NR___acl_set_file
    348
#define TARGET_FREEBSD_NR___acl_get_fd  349
#define TARGET_FREEBSD_NR___acl_set_fd  350
#define TARGET_FREEBSD_NR___acl_delete_file     351
#define TARGET_FREEBSD_NR___acl_delete_fd       352
#define TARGET_FREEBSD_NR___acl_aclcheck_file   353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd     354
#define TARGET_FREEBSD_NR_extattrctl    355
#define TARGET_FREEBSD_NR_extattr_set_file      356
#define TARGET_FREEBSD_NR_extattr_get_file      357
```

```
#define TARGET_FREEBSD_NR_extattr_delete_file   358
#define TARGET_FREEBSD_NR_aio_waitcomplete      359
#define TARGET_FREEBSD_NR_getresuid     360
#define TARGET_FREEBSD_NR_getresgid     361
#define TARGET_FREEBSD_NR_kqueue        362
#define TARGET_FREEBSD_NR_freebsd11_kevent      363
                        /* 364 is obsolete __cap_get_proc */
                        /* 365 is obsolete __cap_set_proc */
                        /* 366 is obsolete __cap_get_fd */
                        /* 367 is obsolete
 __cap_get_file */
                        /* 368 is obsolete __cap_set_fd */
                        /* 369 is obsolete __cap_set_file */
#define TARGET_FREEBSD_NR_extattr_set_fd        371
#define TARGET_FREEBSD_NR_extattr_get_fd        372
#define TARGET_FREEBSD_NR_extattr_delete_fd     373
#define TARGET_FREEBSD_NR___setugid     374
                        /* 375 is obsolete nfsclnt */
#define TARGET_FREEBSD_NR_eaccess       376
#define TARGET_FREEBSD_NR_afs3_syscall  377
#define TARGET_FREEBSD_NR_nmount        378
                        /* 379 is obsolete kse_exit */
                        /* 380 is obsolete kse_wakeup */
                        /* 381 is obsolete kse_create */
                        /* 382 is obsolete kse_thr_interrupt */
                        /* 383 is obsolete kse_release */
#define TARGET_FREEBSD_NR___mac_get_proc        384
#define TARGET_FREEBSD_NR___mac_set_proc        385
#define TARGET_FREEBSD_NR___mac_get_fd
 386
#define TARGET_FREEBSD_NR___mac_get_file        387
#define TARGET_FREEBSD_NR___mac_set_fd  388
#define TARGET_FREEBSD_NR___mac_set_file        389
#define TARGET_FREEBSD_NR_kenv  390
#define TARGET_FREEBSD_NR_lchflags      391
#define TARGET_FREEBSD_NR_uuidgen       392
#define TARGET_FREEBSD_NR_sendfile      393
#define TARGET_FREEBSD_NR_mac_syscall   394
#define TARGET_FREEBSD_NR_freebsd11_getfsstat   395
#define TARGET_FREEBSD_NR_freebsd11_statfs      396
#define TARGET_FREEBSD_NR_freebsd11_fstatfs     397
#define TARGET_FREEBSD_NR_freebsd11_fhstatfs    398
#define TARGET_FREEBSD_NR_ksem_close    400
#define TARGET_FREEBSD_NR_ksem_post     401
#define TARGET_FREEBSD_NR_ksem_wait     402
#define TARGET_FREEBSD_NR_ksem_trywait  403
#define TARGET_FREEBSD_NR_ksem_init     404
#define TARGET_FREEBSD_NR_ksem_open     405
```

```
#define TARGET_FREEBSD_NR_ksem_unlink   406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define
 TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link        410
#define TARGET_FREEBSD_NR___mac_set_link        411
#define TARGET_FREEBSD_NR_extattr_set_link      412
#define TARGET_FREEBSD_NR_extattr_get_link      413
#define TARGET_FREEBSD_NR_extattr_delete_link   414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction     416
#define TARGET_FREEBSD_NR_sigreturn     417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff       424
#define TARGET_FREEBSD_NR___acl_get_link        425
#define TARGET_FREEBSD_NR___acl_set_link        426
#define TARGET_FREEBSD_NR___acl_delete_link     427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait       429
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit      431
#define TARGET_FREEBSD_NR_thr_self      432
#define TARGET_FREEBSD_NR_thr_kill
    433
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd       437
#define TARGET_FREEBSD_NR_extattr_list_file     438
#define TARGET_FREEBSD_NR_extattr_list_link     439
                        /* 440 is obsolete kse_switchin */
#define TARGET_FREEBSD_NR_ksem_timedwait        441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake      443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon       446
#define TARGET_FREEBSD_NR_getauid       447
#define TARGET_FREEBSD_NR_setauid       448
#define TARGET_FREEBSD_NR_getaudit      449
#define TARGET_FREEBSD_NR_setaudit      450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl      453
#define TARGET_FREEBSD_NR__umtx_op      454
#define TARGET_FREEBSD_NR_thr_new       455
#define TARGET_FREEBSD_NR_sigqueue
```

456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_freebsd12_shm_open 482
#define
TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_freebsd11_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_freebsd11_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define

```
 TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get      506
#define TARGET_FREEBSD_NR_jail_set      507
#define TARGET_FREEBSD_NR_jail_remove   508
#define TARGET_FREEBSD_NR_freebsd12_closefrom   509
#define TARGET_FREEBSD_NR___semctl      510
#define TARGET_FREEBSD_NR_msgctl        511
#define TARGET_FREEBSD_NR_shmctl        512
#define TARGET_FREEBSD_NR_lpathconf     513
                        /* 514 is obsolete cap_new */
#define TARGET_FREEBSD_NR___cap_rights_get      515
#define TARGET_FREEBSD_NR_cap_enter     516
#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork        518
#define TARGET_FREEBSD_NR_pdkill        519
#define TARGET_FREEBSD_NR_pdgetpid      520
#define TARGET_FREEBSD_NR_pselect       522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct        525
#define TARGET_FREEBSD_NR_rctl_get_rules        526
#define TARGET_FREEBSD_NR_rctl_get_limits
    527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule      529
#define TARGET_FREEBSD_NR_posix_fallocate       530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_wait6 532
#define TARGET_FREEBSD_NR_cap_rights_limit      533
#define TARGET_FREEBSD_NR_cap_ioctls_limit      534
#define TARGET_FREEBSD_NR_cap_ioctls_get        535
#define TARGET_FREEBSD_NR_cap_fcntls_limit      536
#define TARGET_FREEBSD_NR_cap_fcntls_get        537
#define TARGET_FREEBSD_NR_bindat        538
#define TARGET_FREEBSD_NR_connectat     539
#define TARGET_FREEBSD_NR_chflagsat     540
#define TARGET_FREEBSD_NR_accept4       541
#define TARGET_FREEBSD_NR_pipe2 542
#define TARGET_FREEBSD_NR_aio_mlock     543
#define TARGET_FREEBSD_NR_procctl       544
#define TARGET_FREEBSD_NR_ppoll 545
#define TARGET_FREEBSD_NR_futimens      546
#define TARGET_FREEBSD_NR_utimensat     547
                        /* 548 is obsolete numa_getaffinity
 */
                        /* 549 is obsolete numa_setaffinity */
#define TARGET_FREEBSD_NR_fdatasync     550
#define TARGET_FREEBSD_NR_fstat 551
```

#define TARGET_FREEBSD_NR_fstatat 552
#define TARGET_FREEBSD_NR_fhstat 553
#define TARGET_FREEBSD_NR_getdirentries 554
#define TARGET_FREEBSD_NR_statfs 555
#define TARGET_FREEBSD_NR_fstatfs 556
#define TARGET_FREEBSD_NR_getfsstat 557
#define TARGET_FREEBSD_NR_fhstatfs 558
#define TARGET_FREEBSD_NR_mknodat 559
#define TARGET_FREEBSD_NR_kevent 560
#define TARGET_FREEBSD_NR_cpuset_getdomain 561
#define TARGET_FREEBSD_NR_cpuset_setdomain 562
#define TARGET_FREEBSD_NR_getrandom 563
#define TARGET_FREEBSD_NR_getfhat 564
#define TARGET_FREEBSD_NR_fhlink 565
#define TARGET_FREEBSD_NR_fhlinkat 566
#define TARGET_FREEBSD_NR_fhreadlink 567
#define TARGET_FREEBSD_NR_funlinkat 568
#define TARGET_FREEBSD_NR_copy_file_range 569
#define TARGET_FREEBSD_NR___sysctlbyname
570
#define TARGET_FREEBSD_NR_shm_open2 571
#define TARGET_FREEBSD_NR_shm_rename 572
#define TARGET_FREEBSD_NR_sigfastblock 573
#define TARGET_FREEBSD_NR___realpathat 574
#define TARGET_FREEBSD_NR_close_range 575
#define TARGET_FREEBSD_NR_rpctls_syscall 576
#define TARGET_FREEBSD_NR_MAXSYSCALL 577
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==========

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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* April 9, 2019

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==========

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==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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==========
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use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the

contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---
```

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
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SoftFloat Release 3e

John R. Hauser
2018 January 20

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*/
/*
* Intel general target stuff that's common to all i386 details
*

```
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*/

#ifndef TARGET_H
#define TARGET_H

/*
* i386 doesn't 'lump' the registers for 64-bit args.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
  return false;
}

#endif /* TARGET_H */
#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H

#define TARGET_NSIG     32  /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
  abi_long    ss_sp;
  abi_ulong   ss_size;
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
  int         sival_int;
  abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
```

```
  int32_t     _signo;
  int32_t     _code;
  int32_t     _errno;
#if TARGET_ABI_BITS == 64
  int32_t     _pad;
#endif
  union {
     struct {
        int32_t             _pid;
        int32_t
       _uid;
        target_sigval_t    _value;
     } _rt;

     struct {
        int32_t             _pid;
        int32_t             _uid;
        int32_t             _struct;
        /* clock_t          _utime; */
        /* clock_t          _stime; */
     } _child;

     struct {
        abi_ulong           _addr;
        int32_t             _trap;
     } _fault;

     struct {
        long                _band;
        int                 _fd;
     } _poll;
  } _reason;
};

typedef union target_siginfo {
  int8_t     si_pad[128];
  struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
```

```
#define TARGET_TRAP_TRACE   2


#endif /* TARGET_OS_SIGINFO_H
 */
/*
* Emulation of BSD signals
*
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*/

#ifndef SIGNAL_COMMON_H
#define SIGNAL_COMMON_H

/**
* block_signals: block all signals while handling this guest syscall
*
* Block all signals, and arrange that the signal mask is returned to
* its correct value for the guest before we resume execution of guest code.
* If this function returns non-zero, then the caller should immediately
* return -TARGET_ERESTARTSYS to the main loop, which will take the pending
* signal and restart execution of the syscall.
* If block_signals() returns zero, then the caller can continue with
* emulation of the system call knowing that no signals can be taken
* (and therefore that no race conditions will result).
* This should only be called once, because if it is called a second time
* it will always return non-zero. (Think of it like a mutex that can't
* be recursively locked.)
* Signals will be unblocked again by process_pending_signals().
 *
* Return value: non-zero if there was a pending signal, zero if not.
*/
int block_signals(void); /* Returns non zero if signal pending */

long do_rt_sigreturn(CPUArchState *env);
int do_sigaction(int sig, const struct target_sigaction *act,
                 struct target_sigaction *oact);
abi_long do_sigaltstack(abi_ulong uss_addr, abi_ulong uoss_addr, abi_ulong sp);
long do_sigreturn(CPUArchState *env, abi_ulong addr);
void force_sig_fault(int sig, int code, abi_ulong addr);
void host_to_target_siginfo(target_siginfo_t *tinfo, const siginfo_t *info);
int host_to_target_signal(int sig);
void host_to_target_sigset(target_sigset_t *d, const sigset_t *s);
void process_pending_signals(CPUArchState *env);
void queue_signal(CPUArchState *env, int sig, int si_type,
                  target_siginfo_t *info);
```

```
void signal_init(void);
int target_to_host_signal(int sig);
void target_to_host_sigset(sigset_t *d, const target_sigset_t *s);

/*
* Within QEMU the top 8 bits
 of si_code indicate which of the parts of the
* union in target_siginfo is valid. This only applies between
* host_to_target_siginfo_noswap() and tswap_siginfo(); it does not appear
* either within host siginfo_t or in target_siginfo structures which we get
* from the guest userspace program. Linux kernels use this internally, but BSD
* kernels don't do this, but its a useful abstraction.
*
* The linux-user version of this uses the top 16 bits, but FreeBSD's SI_USER
* and other signal independent SI_ codes have bit 16 set, so we only use the top
* byte instead.
*
* For FreeBSD, we have si_pid, si_uid, si_status, and si_addr always. Linux and
* {Open,Net}BSD have a different approach (where their reason field is larger,
* but whose siginfo has fewer fields always).
*
* QEMU_SI_CAPSICUM is currently only FreeBSD 14 current only, so only define
* it where _capsicum is available.
*/
#define QEMU_SI_NOINFO   0      /* nothing other than si_signo valid */
#define QEMU_SI_FAULT
    1      /* _fault is valid in _reason */
#define QEMU_SI_TIMER    2      /* _timer is valid in _reason */
#define QEMU_SI_MESGQ    3      /* _mesgq is valid in _reason */
#define QEMU_SI_POLL     4      /* _poll is valid in _reason */
#if defined(__FreeBSD_version) && __FreeBSD_version >= 1400026
#define QEMU_SI_CAPSICUM 5      /* _capsicum is valid in _reason */
#endif

#endif
```

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```
/*
*  x86_64 sysarch() syscall emulation
*
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
  abi_long ret = 0;
  abi_ulong val;
  int idx;

  switch (op) {
  case TARGET_FREEBSD_AMD64_SET_GSBASE:
```

```
    case TARGET_FREEBSD_AMD64_SET_FSBASE:
        if (op == TARGET_FREEBSD_AMD64_SET_GSBASE) {
            idx = R_GS;
        } else {
            idx = R_FS;
        }
        if (get_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        cpu_x86_load_seg(env, idx, 0);
        env->segs[idx].base = val;
        break;

    case TARGET_FREEBSD_AMD64_GET_GSBASE:
    case TARGET_FREEBSD_AMD64_GET_FSBASE:
        if (op == TARGET_FREEBSD_AMD64_GET_GSBASE) {
            idx = R_GS;
        } else {
            idx = R_FS;
        }
        val = env->segs[idx].base;
        if (put_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        break;

    /* XXX handle the others... */
    default:
        ret = -TARGET_EINVAL;
        break;
    }
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4, abi_long
 arg5, abi_long arg6)
{

    gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
        TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /* TARGET_ARCH_SYSARCH_H */
#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H
```

```
#define TARGET_NSIG     32   /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
  abi_long    ss_sp;
  abi_ulong   ss_size;
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
  int         sival_int;
  abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
  int32_t     _signo;
  int32_t     _code;
  int32_t     _errno;
#if TARGET_ABI_BITS == 64
  int32_t     _pad;
#endif
  union {
     struct {
        int32_t            _pid;
        int32_t
       _uid;
        target_sigval_t    _value;
     } _rt;

     struct {
        int32_t            _pid;
        int32_t            _uid;
        int32_t            _struct;
        /* clock_t         _utime; */
        /* clock_t         _stime; */
```

```
    } _child;

    struct {
        abi_ulong          _addr;
        int32_t            _trap;
    } _fault;

    struct {
        long               _band;
        int                _fd;
    } _poll;
  } _reason;
};

typedef union target_siginfo {
  int8_t     si_pad[128];
  struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
#define TARGET_TRAP_TRACE   2


#endif /* TARGET_OS_SIGINFO_H
 */
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*  x86_64 ELF definitions
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#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x01021000
#define elf_check_arch(x) (((x) == ELF_ARCH))

#define ELF_HWCAP      0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define ELF_CLASS      ELFCLASS64
#define ELF_DATA
   ELFDATA2LSB
#define ELF_ARCH       EM_X86_64

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096

#endif /* TARGET_ARCH_ELF_H */
/*
*  arm cpu system call stubs
*
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*/

#ifndef ARM_TARGET_SYSCALL_H
#define ARM_TARGET_SYSCALL_H

struct target_pt_regs {
  abi_long uregs[17];
};

#define ARM_cpsr    uregs[16]
```

```
#define ARM_pc      uregs[15]
#define ARM_lr      uregs[14]
#define ARM_sp      uregs[13]
#define ARM_ip      uregs[12]
#define
 ARM_fp      uregs[11]
#define ARM_r10     uregs[10]
#define ARM_r9      uregs[9]
#define ARM_r8      uregs[8]
#define ARM_r7      uregs[7]
#define ARM_r6      uregs[6]
#define ARM_r5      uregs[5]
#define ARM_r4      uregs[4]
#define ARM_r3      uregs[3]
#define ARM_r2      uregs[2]
#define ARM_r1      uregs[1]
#define ARM_r0      uregs[0]

#define ARM_SYSCALL_BASE    0 /* XXX: FreeBSD only */

#define TARGET_FREEBSD_ARM_SYNC_ICACHE      0
#define TARGET_FREEBSD_ARM_DRAIN_WRITEBUF   1
#define TARGET_FREEBSD_ARM_SET_TP       2
#define TARGET_FREEBSD_ARM_GET_TP       3

#define TARGET_HW_MACHINE       "arm"
#define TARGET_HW_MACHINE_ARCH  "armv7"

#endif /* ARM_TARGET_SYSCALL_H */
bsd_user_ss.add(files(
 'os-stat.c',
 'os-proc.c',
 'os-sys.c',
 'os-syscall.c',
))
/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*
* System call numbers.
*
* created from;       OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
```

```
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid
  23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin
  50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
```

```
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer
  86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend  111
#define TARGET_OPENBSD_NR_gettimeofday        116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename
    128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
```

```
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_setgid      181
#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segclean        186
#define TARGET_OPENBSD_NR_lfs_segwait
 187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR_getdirentries       196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___syscall   198
#define TARGET_OPENBSD_NR_lseek       199
#define TARGET_OPENBSD_NR_truncate    200
#define TARGET_OPENBSD_NR_ftruncate   201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspioctl   208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime
    232
#define TARGET_OPENBSD_NR_clock_settime       233
#define TARGET_OPENBSD_NR_clock_getres        234
#define TARGET_OPENBSD_NR_nanosleep   240
```

```
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_issetugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
#define TARGET_OPENBSD_NR_fhopen      264
#define TARGET_OPENBSD_NR_preadv      267
#define TARGET_OPENBSD_NR_pwritev     268
#define TARGET_OPENBSD_NR_kqueue      269
#define TARGET_OPENBSD_NR_kevent      270
#define TARGET_OPENBSD_NR_mlockall    271
#define TARGET_OPENBSD_NR_munlockall  272
#define TARGET_OPENBSD_NR_getpeereid  273
#define TARGET_OPENBSD_NR_getresuid   281
#define TARGET_OPENBSD_NR_setresuid   282
#define TARGET_OPENBSD_NR_getresgid   283
#define TARGET_OPENBSD_NR_setresgid
  284
#define TARGET_OPENBSD_NR_mquery      286
#define TARGET_OPENBSD_NR_closefrom   287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget      289
#define TARGET_OPENBSD_NR_semop       290
#define TARGET_OPENBSD_NR_stat        291
#define TARGET_OPENBSD_NR_fstat       292
#define TARGET_OPENBSD_NR_lstat       293
#define TARGET_OPENBSD_NR_fhstat      294
#define TARGET_OPENBSD_NR___semctl    295
#define TARGET_OPENBSD_NR_shmctl      296
#define TARGET_OPENBSD_NR_msgctl      297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleep    300
#define TARGET_OPENBSD_NR_thrwakeup   301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert        303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs
   309

/* syscall flags from machine/trap.h */
```

```
/*      $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $       */
/*      $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/*
*  netbsd ELF definitions
*
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*/
```

```
#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
     ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                          abi_ulong stringp,
```

```
                                struct elfhdr *exec,
                                abi_ulong load_addr,
                                 abi_ulong load_bias,
                                abi_ulong interp_load_addr,
                                struct image_info *info)
{
    abi_ulong sp;
    int size;
    abi_ulong u_platform;
    const char *k_platform;
    const int n = sizeof(elf_addr_t);

    sp = p;
    u_platform = 0;
    k_platform = ELF_PLATFORM;
    if (k_platform) {
        size_t len = strlen(k_platform) + 1;
        sp -= (len + n - 1) & ~(n - 1);
        u_platform = sp;
        /* FIXME - check return value of memcpy_to_target() for failure */
        memcpy_to_target(sp, k_platform, len);
    }
    /*
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    if (k_platform) {
        size += 2;
    }
#ifdef DLINFO_ARCH_ITEMS
    size += DLINFO_ARCH_ITEMS * 2;
#endif
     size += envc + argc + 2;
    size += 1;                      /* argc itself */
    size *= n;
    if (size & 15) {
        sp -= 16 - (size & 15);
    }

    /*
     * NetBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
        sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
      } while (0)
```

```
    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    NEW_AUX_ENT(AT_UID,
 (abi_ulong)getuid());
    NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
    NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
    if (k_platform) {
       NEW_AUX_ENT(AT_PLATFORM, u_platform);
    }
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* TARGET_OS_ELF_H */
```

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/*
*  NetBSD setup_initial_stack() implementation.
*
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*/

#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
  abi_ulong *stringp)
{
  int i;
  abi_ulong stack_base;

  stack_base
 = (target_stkbas + target_stksiz) -
            MAX_ARG_PAGES * TARGET_PAGE_SIZE;
  if (p) {
     *p = stack_base;
  }
  if (stringp) {
     *stringp = stack_base;
  }

  for (i = 0; i < MAX_ARG_PAGES; i++) {
```

```
        if (bprm->page[i]) {
            info->rss++;
            if (!memcpy_to_target(stack_base, bprm->page[i],
                        TARGET_PAGE_SIZE)) {
                errno = EFAULT;
                return -1;
            }
            g_free(bprm->page[i]);
        }
        stack_base += TARGET_PAGE_SIZE;
    }

    return 0;
}

#endif /* TARGET_OS_STACK_H */
/* SPDX-License-Identifier: BSD-3-Clause */
/*
* QEMU internal errno values for implementing user-only POSIX.
*
*  Copyright (c) 2021 Linaro, Ltd.
*/

#ifndef SPECIAL_ERRNO_H
#define SPECIAL_ERRNO_H

/*
* All of these are QEMU internal, not visible to the guest.
* They should be chosen so as to not overlap with any host
* or guest errno.
*/

/*
* This is returned when a system call should be restarted, to tell the
* main loop that it should wind the guest PC backwards so it will
* re-execute the syscall after handling any pending signals.
*/
#define QEMU_ERESTARTSYS  255

#endif /* SPECIAL_ERRNO_H */
/*
*  i386 sysarch system call emulation
*
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```
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
  abi_long ret = 0;
  abi_ulong val;
  int idx;

  switch
 (op) {
  case TARGET_FREEBSD_I386_SET_GSBASE:
  case TARGET_FREEBSD_I386_SET_FSBASE:
     if (op == TARGET_FREEBSD_I386_SET_GSBASE) {
        idx = R_GS;
     } else {
        idx = R_FS;
     }
     if (get_user(val, parms, abi_ulong)) {
        return -TARGET_EFAULT;
     }
     cpu_x86_load_seg(env, idx, 0);
     env->segs[idx].base = val;
     break;

  case TARGET_FREEBSD_I386_GET_GSBASE:
  case TARGET_FREEBSD_I386_GET_FSBASE:
     if (op == TARGET_FREEBSD_I386_GET_GSBASE) {
        idx = R_GS;
     } else {
        idx = R_FS;
     }
     val = env->segs[idx].base;
     if (put_user(val, parms, abi_ulong)) {
```

```
            return -TARGET_EFAULT;
        }
        break;

    /* XXX handle the others... */
    default:
        ret = -TARGET_EINVAL;
        break;
    }
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,
        abi_long
 arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

    gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
        TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /* TARGET_ARCH_SYSARCH_H */
/*
*  freebsd ELF definitions
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*/

#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"
```

```
#define bsd_get_ncpu() 1 /* until we pull in bsd-proc.[hc] */

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE
 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

/* XXX Look at the other conflicting AT_* values. */
#define FREEBSD_AT_NCPUS     19
#define FREEBSD_AT_HWCAP     25
#define FREEBSD_AT_HWCAP2    26

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
     ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 14

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,

                        abi_ulong stringp,
                              struct elfhdr *exec,
                              abi_ulong load_addr,
```

```
                                abi_ulong load_bias,
                                abi_ulong interp_load_addr,
                                struct image_info *info)
{
    abi_ulong features, sp;
    int size;
    const int n = sizeof(elf_addr_t);

    target_auxents_sz = 0;
    sp = p;
    /*
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    size += envc + argc + 2;
    size += 1;                  /* argc itself */
    size *= n;
    if (size & 15) {
       sp -= 16 - (size & 15);
    }

    /*
     * FreeBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \

      sp -= n; put_user_ual(val, sp);     \
       sp -= n; put_user_ual(id, sp);      \
       target_auxents_sz += 2 * n;         \
      } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(FREEBSD_AT_NCPUS, (abi_ulong)bsd_get_ncpu());
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    features = ELF_HWCAP;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP, features);
#ifdef ELF_HWCAP2
    features = ELF_HWCAP2;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP2, features);
```

```
#endif
    NEW_AUX_ENT(AT_UID, (abi_ulong)getuid());

  NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    target_auxents = sp; /* Note where the aux entries are in the target */
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* TARGET_OS_ELF_H */
```

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Version 2, June 1991

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```
*/

#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include <sys/param.h>
#include "target_arch_sigtramp.h"
#include "qemu/guest-random.h"

/*
* The initial FreeBSD stack is as follows:
* (see kern/kern_exec.c exec_copyout_strings() )
*
 *  Hi Address -> char **ps_argvstr  (struct ps_strings for ps, w, etc.)
*               unsigned ps_nargvstr
*               char **ps_envstr
*  PS_STRINGS -> unsigned ps_nenvstr
*
*               machine dependent sigcode (sv_sigcode of size
*                                       sv_szsigcode)
*
*               execpath          (absolute image path for rtld)
*
*               SSP Canary        (sizeof(long) * 8)
*
*               page sizes array  (usually sizeof(u_long) )
*
*  "destp" ->    argv, env strings (up to 262144 bytes)
*/
static inline int setup_initial_stack(struct bsd_binprm *bprm,
      abi_ulong *ret_addr, abi_ulong *stringp)
{
  int i;
  abi_ulong stack_hi_addr;
  size_t execpath_len, stringspace;
  abi_ulong destp, argvp, envp, p;
  struct target_ps_strings ps_strs;
  char canary[sizeof(abi_long) * 8];

  stack_hi_addr = p = target_stkbas + target_stksiz;

  /* Save some space for ps_strings. */
  p -= sizeof(struct target_ps_strings);

   /* Add machine dependent sigcode. */
  p -= TARGET_SZSIGCODE;
  if (setup_sigtramp(p, (unsigned)offsetof(struct target_sigframe, sf_uc),
        TARGET_FREEBSD_NR_sigreturn)) {
```

```
    errno = EFAULT;
    return -1;
  }
  if (bprm->fullpath) {
    execpath_len = strlen(bprm->fullpath) + 1;
    p -= roundup(execpath_len, sizeof(abi_ulong));
    if (memcpy_to_target(p, bprm->fullpath, execpath_len)) {
      errno = EFAULT;
      return -1;
    }
  }
  /* Add canary for SSP. */
  qemu_guest_getrandom_nofail(canary, sizeof(canary));
  p -= roundup(sizeof(canary), sizeof(abi_ulong));
  if (memcpy_to_target(p, canary, sizeof(canary))) {
    errno = EFAULT;
    return -1;
  }
  /* Add page sizes array. */
  p -= sizeof(abi_ulong);
  if (put_user_ual(TARGET_PAGE_SIZE, p)) {
    errno = EFAULT;
    return -1;
  }
  /*
   * Deviate from FreeBSD stack layout: force stack to new page here

* so that signal trampoline is not sharing the page with user stack
   * frames. This is actively harmful in qemu as it marks pages with
   * code it translated as read-only, which is somewhat problematic
   * for user trying to use the stack as intended.
   */
  p = rounddown(p, TARGET_PAGE_SIZE);

  /* Calculate the string space needed */
  stringspace = 0;
  for (i = 0; i < bprm->argc; ++i) {
    stringspace += strlen(bprm->argv[i]) + 1;
  }
  for (i = 0; i < bprm->envc; ++i) {
    stringspace += strlen(bprm->envp[i]) + 1;
  }
  if (stringspace > TARGET_ARG_MAX) {
    errno = ENOMEM;
    return -1;
  }
  /* Make room for the argv and envp strings */
  destp = rounddown(p - stringspace, sizeof(abi_ulong));
```

```
  p = argvp = destp - (bprm->argc + bprm->envc + 2) * sizeof(abi_ulong);
  /* Remember the strings pointer */
  if (stringp) {
     *stringp = destp;
  }
  /*
   * Add argv strings.  Note that the argv[] vectors are added
by
   * loader_build_argptr()
   */
  /* XXX need to make room for auxargs */
  ps_strs.ps_argvstr = tswapl(argvp);
  ps_strs.ps_nargvstr = tswap32(bprm->argc);
  for (i = 0; i < bprm->argc; ++i) {
     size_t len = strlen(bprm->argv[i]) + 1;

     if (memcpy_to_target(destp, bprm->argv[i], len)) {
        errno = EFAULT;
        return -1;
     }
     if (put_user_ual(destp, argvp)) {
        errno = EFAULT;
        return -1;
     }
     argvp += sizeof(abi_ulong);
     destp += len;
  }
  if (put_user_ual(0, argvp)) {
     errno = EFAULT;
     return -1;
  }
  /*
   * Add env strings. Note that the envp[] vectors are added by
   * loader_build_argptr().
   */
  envp = argvp + sizeof(abi_ulong);
  ps_strs.ps_envstr = tswapl(envp);
  ps_strs.ps_nenvstr = tswap32(bprm->envc);
  for (i = 0; i < bprm->envc; ++i) {
     size_t len = strlen(bprm->envp[i]) + 1;

     if (memcpy_to_target(destp, bprm->envp[i],
len)) {
        errno = EFAULT;
        return -1;
     }
     if (put_user_ual(destp, envp)) {
        errno = EFAULT;
```

```
            return -1;
        }
        envp += sizeof(abi_ulong);
        destp += len;
    }
    if (put_user_ual(0, envp)) {
        errno = EFAULT;
        return -1;
    }
    if (memcpy_to_target(stack_hi_addr - sizeof(ps_strs), &ps_strs,
                sizeof(ps_strs))) {
        errno = EFAULT;
        return -1;
    }

    if (ret_addr) {
        *ret_addr = p;
    }

    return 0;
}

#endif /* TARGET_OS_STACK_H */
/*
*  FreeBSD conversion extern declarations
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*/

#ifndef QEMU_OS_H
#define QEMU_OS_H

/* qemu/osdep.h pulls in the rest */

#include <sys/acl.h>
```

```
#include <sys/mount.h>
#include <sys/timex.h>
#include <sys/rtprio.h>
#include <sys/select.h>
#include <sys/socket.h>
#include <netinet/in.h>

struct freebsd11_stat;

/*
 os-stat.c */
abi_long h2t_freebsd11_stat(abi_ulong target_addr,
      struct freebsd11_stat *host_st);
abi_long h2t_freebsd11_nstat(abi_ulong target_addr,
      struct freebsd11_stat *host_st);
abi_long t2h_freebsd_fhandle(fhandle_t *host_fh, abi_ulong target_addr);
abi_long h2t_freebsd_fhandle(abi_ulong target_addr, fhandle_t *host_fh);
abi_long h2t_freebsd11_statfs(abi_ulong target_addr,
  struct freebsd11_statfs *host_statfs);
abi_long target_to_host_fcntl_cmd(int cmd);
abi_long h2t_freebsd_stat(abi_ulong target_addr,
      struct stat *host_st);
abi_long h2t_freebsd_statfs(abi_ulong target_addr,
  struct statfs *host_statfs);

#endif /* QEMU_OS_H */
```

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*/

#ifndef BSD_FILE_H
#define BSD_FILE_H

#include "qemu/path.h"

#define LOCK_PATH(p, arg)                \
do {                                     \
  (p) = lock_user_string(arg);           \
  if ((p) == NULL) {
 \
      return -TARGET_EFAULT;             \
  }                                      \
} while (0)

#define UNLOCK_PATH(p, arg)     unlock_user(p, arg, 0)

#define LOCK_PATH2(p1, arg1, p2, arg2)      \
do {                                        \
  (p1) = lock_user_string(arg1);            \
  if ((p1) == NULL) {                       \
      return -TARGET_EFAULT;                \
  }                                         \
  (p2) = lock_user_string(arg2);            \
  if ((p2) == NULL) {                       \
      unlock_user(p1, arg1, 0);             \
      return -TARGET_EFAULT;                \
  }                                         \
} while (0)

#define UNLOCK_PATH2(p1, arg1, p2, arg2)    \
do {                                        \
  unlock_user(p2, arg2, 0);                 \
  unlock_user(p1, arg1, 0);                 \
} while (0)

struct iovec *lock_iovec(int type, abi_ulong target_addr, int count, int copy);
void unlock_iovec(struct iovec *vec, abi_ulong
 target_addr, int count, int copy);

int safe_open(const char *path, int flags, mode_t mode);
int safe_openat(int fd, const char *path, int flags, mode_t mode);

ssize_t safe_read(int fd, void *buf, size_t nbytes);
```

```
ssize_t safe_pread(int fd, void *buf, size_t nbytes, off_t offset);
ssize_t safe_readv(int fd, const struct iovec *iov, int iovcnt);
ssize_t safe_preadv(int fd, const struct iovec *iov, int iovcnt, off_t offset);

ssize_t safe_write(int fd, void *buf, size_t nbytes);
ssize_t safe_pwrite(int fd, void *buf, size_t nbytes, off_t offset);
ssize_t safe_writev(int fd, const struct iovec *iov, int iovcnt);
ssize_t safe_pwritev(int fd, const struct iovec *iov, int iovcnt, off_t offset);

/* read(2) */
static abi_long do_bsd_read(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long ret;
  void *p;

  p = lock_user(VERIFY_WRITE, arg2, arg3, 0);
  if (p == NULL) {
     return -TARGET_EFAULT;
  }
  ret = get_errno(safe_read(arg1, p, arg3));
  unlock_user(p, arg2,
 ret);

  return ret;
}

/* pread(2) */
static abi_long do_bsd_pread(void *cpu_env, abi_long arg1,
  abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
  abi_long ret;
  void *p;

  p = lock_user(VERIFY_WRITE, arg2, arg3, 0);
  if (p == NULL) {
     return -TARGET_EFAULT;
  }
  if (regpairs_aligned(cpu_env) != 0) {
     arg4 = arg5;
     arg5 = arg6;
  }
  ret = get_errno(safe_pread(arg1, p, arg3, target_arg64(arg4, arg5)));
  unlock_user(p, arg2, ret);

  return ret;
}

/* readv(2) */
```

```
static abi_long do_bsd_readv(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long ret;
  struct iovec *vec = lock_iovec(VERIFY_WRITE, arg2, arg3, 0);

  if (vec != NULL) {
     ret = get_errno(safe_readv(arg1, vec, arg3));
     unlock_iovec(vec, arg2, arg3, 1);
  } else {
     ret = -host_to_target_errno(errno);
  }

  return ret;
}

/* preadv(2) */
static abi_long do_bsd_preadv(void *cpu_env, abi_long arg1,
  abi_long
 arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
  abi_long ret;
  struct iovec *vec = lock_iovec(VERIFY_WRITE, arg2, arg3, 1);

  if (vec != NULL) {
     if (regpairs_aligned(cpu_env) != 0) {
        arg4 = arg5;
        arg5 = arg6;
     }
     ret = get_errno(safe_preadv(arg1, vec, arg3, target_arg64(arg4, arg5)));
     unlock_iovec(vec, arg2, arg3, 0);
  } else {
     ret = -host_to_target_errno(errno);
  }

  return ret;
}

/* write(2) */
static abi_long do_bsd_write(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long nbytes, ret;
  void *p;

  /* nbytes < 0 implies that it was larger than SIZE_MAX. */
  nbytes = arg3;
  if (nbytes < 0) {
     return -TARGET_EINVAL;
  }
```

```
  p = lock_user(VERIFY_READ, arg2, nbytes, 1);
  if (p == NULL) {
      return -TARGET_EFAULT;
  }
  ret = get_errno(safe_write(arg1, p, arg3));
  unlock_user(p, arg2, 0);

  return ret;
}

/* pwrite(2) */
static abi_long
 do_bsd_pwrite(void *cpu_env, abi_long arg1,
  abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
  abi_long ret;
  void *p;

  p = lock_user(VERIFY_READ, arg2, arg3, 1);
  if (p == NULL) {
      return -TARGET_EFAULT;
  }
  if (regpairs_aligned(cpu_env) != 0) {
      arg4 = arg5;
      arg5 = arg6;
  }
  ret = get_errno(safe_pwrite(arg1, p, arg3, target_arg64(arg4, arg5)));
  unlock_user(p, arg2, 0);

  return ret;
}

/* writev(2) */
static abi_long do_bsd_writev(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long ret;
  struct iovec *vec = lock_iovec(VERIFY_READ, arg2, arg3, 1);

  if (vec != NULL) {
      ret = get_errno(safe_writev(arg1, vec, arg3));
      unlock_iovec(vec, arg2, arg3, 0);
  } else {
      ret = -host_to_target_errno(errno);
  }

  return ret;
}
```

```
/* pwritev(2) */
static abi_long do_bsd_pwritev(void *cpu_env, abi_long arg1,
  abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long
 arg6)
{
  abi_long ret;
  struct iovec *vec = lock_iovec(VERIFY_READ, arg2, arg3, 1);

  if (vec != NULL) {
     if (regpairs_aligned(cpu_env) != 0) {
        arg4 = arg5;
        arg5 = arg6;
     }
     ret = get_errno(safe_pwritev(arg1, vec, arg3, target_arg64(arg4, arg5)));
     unlock_iovec(vec, arg2, arg3, 0);
  } else {
     ret = -host_to_target_errno(errno);
  }

  return ret;
}

/* open(2) */
static abi_long do_bsd_open(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(safe_open(path(p), target_to_host_bitmask(arg2,
            fcntl_flags_tbl), arg3));
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* openat(2) */
static abi_long do_bsd_openat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(safe_openat(arg1, path(p),
            target_to_host_bitmask(arg3, fcntl_flags_tbl),
 arg4));
  UNLOCK_PATH(p, arg2);
```

```
  return ret;
}

/* close(2) */
static abi_long do_bsd_close(abi_long arg1)
{
  return get_errno(close(arg1));
}

/* fdatasync(2) */
static abi_long do_bsd_fdatasync(abi_long arg1)
{
  return get_errno(fdatasync(arg1));
}

/* fsync(2) */
static abi_long do_bsd_fsync(abi_long arg1)
{
  return get_errno(fsync(arg1));
}

/* closefrom(2) */
static abi_long do_bsd_closefrom(abi_long arg1)
{
  closefrom(arg1);  /* returns void */
  return get_errno(0);
}

/* revoke(2) */
static abi_long do_bsd_revoke(abi_long arg1)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(revoke(p)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* access(2) */
static abi_long do_bsd_access(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
```

```
  LOCK_PATH(p, arg1);
  ret = get_errno(access(path(p), arg2));
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* eaccess(2) */
static abi_long do_bsd_eaccess(abi_long
 arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(eaccess(path(p), arg2));
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* faccessat(2) */
static abi_long do_bsd_faccessat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(faccessat(arg1, p, arg3, arg4)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg2);

  return ret;
}

/* chdir(2) */
static abi_long do_bsd_chdir(abi_long arg1)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(chdir(p)); /* XXX  path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}
```

```
/* fchdir(2) */
static abi_long do_bsd_fchdir(abi_long arg1)
{
  return get_errno(fchdir(arg1));
}

/* rename(2) */
static abi_long do_bsd_rename(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg1, p2, arg2);
  ret = get_errno(rename(p1, p2)); /* XXX path(p1),
 path(p2) */
  UNLOCK_PATH2(p1, arg1, p2, arg2);

  return ret;
}

/* renameat(2) */
static abi_long do_bsd_renameat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg2, p2, arg4);
  ret = get_errno(renameat(arg1, p1, arg3, p2));
  UNLOCK_PATH2(p1, arg2, p2, arg4);

  return ret;
}

/* link(2) */
static abi_long do_bsd_link(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg1, p2, arg2);
  ret = get_errno(link(p1, p2)); /* XXX path(p1), path(p2) */
  UNLOCK_PATH2(p1, arg1, p2, arg2);

  return ret;
}

/* linkat(2) */
```

```
static abi_long do_bsd_linkat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg2, p2, arg4);
  ret = get_errno(linkat(arg1, p1, arg3, p2, arg5));
  UNLOCK_PATH2(p1, arg2, p2, arg4);

  return ret;
}

/* unlink(2) */
static abi_long do_bsd_unlink(abi_long
 arg1)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(unlink(p)); /* XXX path(p) */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* unlinkat(2) */
static abi_long do_bsd_unlinkat(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(unlinkat(arg1, p, arg3)); /* XXX path(p) */
  UNLOCK_PATH(p, arg2);

  return ret;
}

/* mkdir(2) */
static abi_long do_bsd_mkdir(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
```

```
  ret = get_errno(mkdir(p, arg2)); /* XXX path(p) */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* mkdirat(2) */
static abi_long do_bsd_mkdirat(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(mkdirat(arg1, p, arg3));
  UNLOCK_PATH(p, arg2);

  return ret;
}

/* rmdir(2) */
static abi_long do_bsd_rmdir(abi_long arg1)
{
  abi_long
 ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(rmdir(p)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* undocumented __getcwd(char *buf, size_t len)  system call */
static abi_long do_bsd___getcwd(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
  if (p == NULL) {
     return -TARGET_EFAULT;
  }
  ret = safe_syscall(SYS___getcwd, p, arg2);
  unlock_user(p, arg1, ret == 0 ? strlen(p) + 1 : 0);

  return get_errno(ret);
```

```
}

/* dup(2) */
static abi_long do_bsd_dup(abi_long arg1)
{
  return get_errno(dup(arg1));
}

/* dup2(2) */
static abi_long do_bsd_dup2(abi_long arg1, abi_long arg2)
{
  return get_errno(dup2(arg1, arg2));
}

/* truncate(2) */
static abi_long do_bsd_truncate(void *cpu_env, abi_long arg1,
      abi_long arg2, abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  if (regpairs_aligned(cpu_env) != 0) {
      arg2
 = arg3;
      arg3 = arg4;
  }
  ret = get_errno(truncate(p, target_arg64(arg2, arg3)));
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* ftruncate(2) */
static abi_long do_bsd_ftruncate(void *cpu_env, abi_long arg1,
      abi_long arg2, abi_long arg3, abi_long arg4)
{
  if (regpairs_aligned(cpu_env) != 0) {
      arg2 = arg3;
      arg3 = arg4;
  }
  return get_errno(ftruncate(arg1, target_arg64(arg2, arg3)));
}

/* acct(2) */
static abi_long do_bsd_acct(abi_long arg1)
{
  abi_long ret;
```

```
  void *p;

  if (arg1 == 0) {
      ret = get_errno(acct(NULL));
  } else {
      LOCK_PATH(p, arg1);
      ret = get_errno(acct(path(p)));
      UNLOCK_PATH(p, arg1);
  }
  return ret;
}

/* sync(2) */
static abi_long do_bsd_sync(void)
{
  sync();
  return 0;
}

/* mount(2) */
static abi_long do_bsd_mount(abi_long arg1, abi_long arg2, abi_long arg3,
      abi_long arg4)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg1, p2, arg2);
  /*

  * XXX arg4 should be locked, but it isn't clear how to do that since it may
   * be not be a NULL-terminated string.
   */
  if (arg4 == 0) {
      ret = get_errno(mount(p1, p2, arg3, NULL)); /* XXX path(p2)? */
  } else {
      ret = get_errno(mount(p1, p2, arg3, g2h_untagged(arg4))); /* XXX path(p2)? */
  }
  UNLOCK_PATH2(p1, arg1, p2, arg2);

  return ret;
}

/* unmount(2) */
static abi_long do_bsd_unmount(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
```

```
  LOCK_PATH(p, arg1);
  ret = get_errno(unmount(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* nmount(2) */
static abi_long do_bsd_nmount(abi_long arg1, abi_long count,
      abi_long flags)
{
  abi_long ret;
  struct iovec *vec = lock_iovec(VERIFY_READ, arg1, count, 1);

  if (vec != NULL) {
     ret = get_errno(nmount(vec, count, flags));
     unlock_iovec(vec, arg1, count, 0);
  } else {
     return -TARGET_EFAULT;
  }

  return ret;
}

/*
 symlink(2) */
static abi_long do_bsd_symlink(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg1, p2, arg2);
  ret = get_errno(symlink(p1, p2)); /* XXX path(p1), path(p2) */
  UNLOCK_PATH2(p1, arg1, p2, arg2);

  return ret;
}

/* symlinkat(2) */
static abi_long do_bsd_symlinkat(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg1, p2, arg3);
  ret = get_errno(symlinkat(p1, arg2, p2)); /* XXX path(p1), path(p2) */
  UNLOCK_PATH2(p1, arg1, p2, arg3);
```

```
  return ret;
}

/* readlink(2) */
static abi_long do_bsd_readlink(CPUArchState *env, abi_long arg1,
      abi_long arg2, abi_long arg3)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH(p1, arg1);
  p2 = lock_user(VERIFY_WRITE, arg2, arg3, 0);
  if (p2 == NULL) {
     UNLOCK_PATH(p1, arg1);
     return -TARGET_EFAULT;
  }
  if (strcmp(p1, "/proc/curproc/file") == 0) {
     CPUState *cpu = env_cpu(env);
      TaskState *ts = (TaskState *)cpu->opaque;
     strncpy(p2, ts->bprm->fullpath, arg3);
     ret = MIN((abi_long)strlen(ts->bprm->fullpath), arg3);
  } else {
     ret = get_errno(readlink(path(p1), p2, arg3));
  }
  unlock_user(p2, arg2, ret);
  UNLOCK_PATH(p1, arg1);

  return ret;
}

/* readlinkat(2) */
static abi_long do_bsd_readlinkat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH(p1, arg2);
  p2 = lock_user(VERIFY_WRITE, arg3, arg4, 0);
  if (p2 == NULL) {
     UNLOCK_PATH(p1, arg2);
     return -TARGET_EFAULT;
  }
  ret = get_errno(readlinkat(arg1, p1, p2, arg4));
  unlock_user(p2, arg3, ret);
  UNLOCK_PATH(p1, arg2);
```

```
  return ret;
}

/* chmod(2) */
static abi_long do_bsd_chmod(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(chmod(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return
 ret;
}

/* fchmod(2) */
static abi_long do_bsd_fchmod(abi_long arg1, abi_long arg2)
{
  return get_errno(fchmod(arg1, arg2));
}

/* lchmod(2) */
static abi_long do_bsd_lchmod(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(lchmod(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchmodat(2) */
static abi_long do_bsd_fchmodat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(fchmodat(arg1, p, arg3, arg4));
  UNLOCK_PATH(p, arg2);

  return ret;
```

```
}

/* pre-ino64 mknod(2) */
static abi_long do_bsd_freebsd11_mknod(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(syscall(SYS_freebsd11_mknod, p, arg2, arg3));
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* pre-ino64 mknodat(2) */
static abi_long do_bsd_freebsd11_mknodat(abi_long
 arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(syscall(SYS_freebsd11_mknodat, arg1, p, arg3, arg4));
  UNLOCK_PATH(p, arg2);

  return ret;
}

/* post-ino64 mknodat(2) */
static abi_long do_bsd_mknodat(void *cpu_env, abi_long arg1,
      abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5,
      abi_long arg6)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
     /* 32-bit arch's use two 32 registers for 64 bit return value */
  if (regpairs_aligned(cpu_env) != 0) {
     ret = get_errno(mknodat(arg1, p, arg3, target_arg64(arg5, arg6)));
  } else {
     ret = get_errno(mknodat(arg1, p, arg3, target_arg64(arg4, arg5)));
  }
  UNLOCK_PATH(p, arg2);

  return ret;
```

```
}

/* chown(2) */
static abi_long do_bsd_chown(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(chown(p, arg2, arg3)); /* XXX
 path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchown(2) */
static abi_long do_bsd_fchown(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  return get_errno(fchown(arg1, arg2, arg3));
}

/* lchown(2) */
static abi_long do_bsd_lchown(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(lchown(p, arg2, arg3)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchownat(2) */
static abi_long do_bsd_fchownat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(fchownat(arg1, p, arg3, arg4, arg5)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg2);
```

```
  return ret;
}

/* chflags(2) */
static abi_long do_bsd_chflags(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(chflags(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p,
 arg1);

  return ret;
}

/* lchflags(2) */
static abi_long do_bsd_lchflags(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(lchflags(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchflags(2) */
static abi_long do_bsd_fchflags(abi_long arg1, abi_long arg2)
{
  return get_errno(fchflags(arg1, arg2));
}

/* chroot(2) */
static abi_long do_bsd_chroot(abi_long arg1)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(chroot(p)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}
```

```
/* flock(2) */
static abi_long do_bsd_flock(abi_long arg1, abi_long arg2)
{
  return get_errno(flock(arg1, arg2));
}

/* mkfifo(2) */
static abi_long do_bsd_mkfifo(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(mkfifo(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* mkfifoat(2) */
static
 abi_long do_bsd_mkfifoat(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(mkfifoat(arg1, p, arg3));
  UNLOCK_PATH(p, arg2);

  return ret;
}

/* pathconf(2) */
static abi_long do_bsd_pathconf(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(pathconf(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}
```

```
/* lpathconf(2) */
static abi_long do_bsd_lpathconf(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(lpathconf(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fpathconf(2) */
static abi_long do_bsd_fpathconf(abi_long arg1, abi_long arg2)
{
  return get_errno(fpathconf(arg1, arg2));
}

/* undelete(2) */
static abi_long do_bsd_undelete(abi_long arg1)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(undelete(p));
 /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

#endif /* BSD_FILE_H */
```

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TARGET_ARCH=arm

TARGET_XML_FILES= gdb-xml/arm-core.xml gdb-xml/arm-vfp.xml gdb-xml/arm-vfp3.xml gdb-xml/arm-vfp-sysregs.xml gdb-xml/arm-neon.xml gdb-xml/arm-m-profile.xml gdb-xml/arm-m-profile-mve.xml

```
/*
*  NetBSD thread dependent code and definitions
*
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*/

#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"

#endif /* TARGET_OS_THREAD_H */
/*
*  i386 cpu init and loop
*
*
```

```
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*/

#ifndef TARGET_ARCH_CPU_H
#define TARGET_ARCH_CPU_H

#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu32"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
  uint64_t *gdt_table;

  env->cr[0] = CR0_PG_MASK | CR0_WP_MASK
| CR0_PE_MASK;
  env->hflags |= HF_PE_MASK | HF_CPL_MASK;
  if (env->features[FEAT_1_EDX] & CPUID_SSE) {
     env->cr[4] |= CR4_OSFXSR_MASK;
     env->hflags |= HF_OSFXSR_MASK;
  }

  /* flags setup : we activate the IRQs by default as in user mode */
  env->eflags |= IF_MASK;

  /* register setup */
  env->regs[R_EAX] = regs->eax;
  env->regs[R_EBX] = regs->ebx;
  env->regs[R_ECX] = regs->ecx;
  env->regs[R_EDX] = regs->edx;
  env->regs[R_ESI] = regs->esi;
  env->regs[R_EDI] = regs->edi;
  env->regs[R_EBP] = regs->ebp;
  env->regs[R_ESP] = regs->esp;
  env->eip = regs->eip;
```

```
 /* interrupt setup */
 env->idt.limit = 255;

 env->idt.base = target_mmap(0, sizeof(uint64_t) * (env->idt.limit + 1),
    PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
 bsd_i386_set_idt_base(env->idt.base);
 bsd_i386_set_idt(0, 0);
 bsd_i386_set_idt(1, 0);
 bsd_i386_set_idt(2, 0);
 bsd_i386_set_idt(3, 3);
 bsd_i386_set_idt(4,
3);
 bsd_i386_set_idt(5, 0);
 bsd_i386_set_idt(6, 0);
 bsd_i386_set_idt(7, 0);
 bsd_i386_set_idt(8, 0);
 bsd_i386_set_idt(9, 0);
 bsd_i386_set_idt(10, 0);
 bsd_i386_set_idt(11, 0);
 bsd_i386_set_idt(12, 0);
 bsd_i386_set_idt(13, 0);
 bsd_i386_set_idt(14, 0);
 bsd_i386_set_idt(15, 0);
 bsd_i386_set_idt(16, 0);
 bsd_i386_set_idt(17, 0);
 bsd_i386_set_idt(18, 0);
 bsd_i386_set_idt(19, 0);
 bsd_i386_set_idt(0x80, 3);

 /* segment setup */
 env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
       PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
 env->gdt.limit = sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
 gdt_table = g2h_untagged(env->gdt.base);

 bsd_i386_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
       DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
       (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

 bsd_i386_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
       (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

 cpu_x86_load_seg(env, R_CS, __USER_CS);
 cpu_x86_load_seg(env, R_SS, __USER_DS);
 cpu_x86_load_seg(env, R_DS, __USER_DS);
 cpu_x86_load_seg(env, R_ES, __USER_DS);
```

```
  cpu_x86_load_seg(env, R_FS, __USER_DS);
  cpu_x86_load_seg(env, R_GS, __USER_DS);
  /* This hack makes Wine work... */
  env->segs[R_FS].selector = 0;
}

static inline void target_cpu_loop(CPUX86State *env)
{
  CPUState *cs = env_cpu(env);
  int trapnr;
  abi_ulong pc;
  /* target_siginfo_t info; */

  for (;;) {
     cpu_exec_start(cs);
     trapnr = cpu_exec(cs);
     cpu_exec_end(cs);
     process_queued_cpu_work(cs);

     switch (trapnr) {
     case 0x80: {
        /* syscall from int $0x80 */
        abi_ulong params = (abi_ulong) env->regs[R_ESP] +
           sizeof(int32_t);
        int32_t syscall_nr = env->regs[R_EAX];
         int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

        if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
           get_user_s32(syscall_nr, params);
           params += sizeof(int32_t);
        } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
           get_user_s32(syscall_nr, params);
           params += sizeof(int64_t);
        }
        get_user_s32(arg1, params);
        params += sizeof(int32_t);
        get_user_s32(arg2, params);
        params += sizeof(int32_t);
        get_user_s32(arg3, params);
        params += sizeof(int32_t);
        get_user_s32(arg4, params);
        params += sizeof(int32_t);
        get_user_s32(arg5, params);
        params += sizeof(int32_t);
        get_user_s32(arg6, params);
        params += sizeof(int32_t);
        get_user_s32(arg7, params);
        params += sizeof(int32_t);
```

```
            get_user_s32(arg8, params);

        env->regs[R_EAX] = do_freebsd_syscall(env,
                                              syscall_nr,
                                              arg1,
                                              arg2,
                                              arg3,
                                              arg4,
                                              arg5,
                                              arg6,
                                              arg7,
                                              arg8);
            }
            if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
                env->regs[R_EAX] = -env->regs[R_EAX];
                env->eflags |= CC_C;
            } else {
                env->eflags &= ~CC_C;
            }
            break;

        case EXCP_SYSCALL:
            /* doesn't do anything */
            break;

        case EXCP_INTERRUPT:
            /* just indicate that signals should be handled
     asap */
            break;

        case EXCP_ATOMIC:
            cpu_exec_step_atomic(cs);
            break;

        default:
            pc = env->segs[R_CS].base + env->eip;
            fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                    "aborting\n", (long)pc, trapnr);
            abort();
        }
        process_pending_signals(env);
      }
    }

    static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
    {
      if (newsp) {
        env->regs[R_ESP] = newsp;
```

```
  }
  env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *env)
{
  cpu_reset(env_cpu(env));
}

#endif /* TARGET_ARCH_CPU_H */
```

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```
/*
*  arm sysarch() system call emulation
*
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUARMState *env, int op,
      abi_ulong parms)
{
  int ret = 0;

  switch (op) {
```

```
 case TARGET_FREEBSD_ARM_SYNC_ICACHE:
  case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
      break;

  case TARGET_FREEBSD_ARM_SET_TP:
      target_cpu_set_tls(env, parms);
      break;

  case TARGET_FREEBSD_ARM_GET_TP:
      ret = target_cpu_get_tls(env);
      break;

  default:
      ret = -TARGET_EINVAL;
      break;
  }
  return ret;
}

static inline void do_freebsd_arch_print_sysarch(
      const struct syscallname *name, abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

  switch (arg1) {
  case TARGET_FREEBSD_ARM_SYNC_ICACHE:
      gemu_log("%s(ARM_SYNC_ICACHE, ...)", name->name);
      break;

  case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
      gemu_log("%s(ARM_DRAIN_WRITEBUF, ...)", name->name);
      break;

  case TARGET_FREEBSD_ARM_SET_TP:
      gemu_log("%s(ARM_SET_TP, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
      break;

  case TARGET_FREEBSD_ARM_GET_TP:
      gemu_log("%s(ARM_GET_TP,
 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
      break;

  default:
      gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
  }
}

#endif /* TARGET_ARCH_SYSARCH_H */
```

```
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_getpid      20
#define
 TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
```

```
#define TARGET_NETBSD_NR_compat_43_stat43    38
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe        42
#define TARGET_NETBSD_NR_getegid
    43
#define TARGET_NETBSD_NR_profil      44
#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13     48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct        51
#define TARGET_NETBSD_NR_compat_13_sigpending13      52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13     53
#define TARGET_NETBSD_NR_ioctl       54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke      56
#define TARGET_NETBSD_NR_symlink     57
#define TARGET_NETBSD_NR_readlink    58
#define TARGET_NETBSD_NR_execve      59
#define TARGET_NETBSD_NR_umask       60
#define TARGET_NETBSD_NR_chroot      61
#define TARGET_NETBSD_NR_compat_43_fstat43   62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo      63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize
  64
#define TARGET_NETBSD_NR_compat_12_msync     65
#define TARGET_NETBSD_NR_vfork       66
#define TARGET_NETBSD_NR_sbrk        69
#define TARGET_NETBSD_NR_sstk        70
#define TARGET_NETBSD_NR_compat_43_ommap     71
#define TARGET_NETBSD_NR_vadvise     72
#define TARGET_NETBSD_NR_munmap      73
#define TARGET_NETBSD_NR_mprotect    74
#define TARGET_NETBSD_NR_madvise     75
#define TARGET_NETBSD_NR_mincore     78
#define TARGET_NETBSD_NR_getgroups   79
#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp     81
#define TARGET_NETBSD_NR_setpgid     82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait     84
#define TARGET_NETBSD_NR_compat_12_oswapon   85
#define TARGET_NETBSD_NR_getitimer   86
```

```
#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize    89
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl
 92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_oaccept   99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec   108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage
 117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
#define TARGET_NETBSD_NR_setregid    127
#define TARGET_NETBSD_NR_rename      128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate        130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mkfifo      132
#define TARGET_NETBSD_NR_sendto      133
#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair  135
#define TARGET_NETBSD_NR_mkdir       136
#define TARGET_NETBSD_NR_rmdir       137
```

```
#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername      141
#define TARGET_NETBSD_NR_compat_43_ogethostid
      142
#define TARGET_NETBSD_NR_compat_43_osethostid       143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit       144
#define TARGET_NETBSD_NR_compat_43_osetrlimit       145
#define TARGET_NETBSD_NR_compat_43_okillpg   146
#define TARGET_NETBSD_NR_setsid      147
#define TARGET_NETBSD_NR_quotactl    148
#define TARGET_NETBSD_NR_compat_43_oquota    149
#define TARGET_NETBSD_NR_compat_43_ogetsockname      150
#define TARGET_NETBSD_NR_nfssvc      155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries    156
#define TARGET_NETBSD_NR_compat_20_statfs    157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_compat_30_getfh     161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname    162
#define TARGET_NETBSD_NR_compat_09_osetdomainname    163
#define TARGET_NETBSD_NR_compat_09_ouname    164
#define TARGET_NETBSD_NR_sysarch     165
#define TARGET_NETBSD_NR_compat_10_osemsys   169
#define TARGET_NETBSD_NR_compat_10_omsgsys   170
#define
 TARGET_NETBSD_NR_compat_10_oshmsys   171
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime       175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
#define TARGET_NETBSD_NR_seteuid     183
#define TARGET_NETBSD_NR_lfs_bmapv   184
#define TARGET_NETBSD_NR_lfs_markv   185
#define TARGET_NETBSD_NR_lfs_segclean        186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12    188
#define TARGET_NETBSD_NR_compat_12_fstat12   189
#define TARGET_NETBSD_NR_compat_12_lstat12   190
#define TARGET_NETBSD_NR_pathconf    191
#define TARGET_NETBSD_NR_fpathconf   192
#define TARGET_NETBSD_NR_getrlimit   194
#define TARGET_NETBSD_NR_setrlimit   195
#define TARGET_NETBSD_NR_compat_12_getdirentries     196
#define TARGET_NETBSD_NR_mmap        197
#define TARGET_NETBSD_NR___syscall   198
#define TARGET_NETBSD_NR_lseek
```

199
#define TARGET_NETBSD_NR_truncate 200
#define TARGET_NETBSD_NR_ftruncate 201
#define TARGET_NETBSD_NR___sysctl 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime
233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR__ksem_init 247
#define TARGET_NETBSD_NR__ksem_open 248
#define TARGET_NETBSD_NR__ksem_unlink 249
#define TARGET_NETBSD_NR__ksem_close 250
#define TARGET_NETBSD_NR__ksem_post 251
#define TARGET_NETBSD_NR__ksem_wait 252
#define TARGET_NETBSD_NR__ksem_trywait 253
#define TARGET_NETBSD_NR__ksem_getvalue 254
#define TARGET_NETBSD_NR__ksem_destroy 255
#define TARGET_NETBSD_NR_mq_open

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#define TARGET_NETBSD_NR_mq_close 258
#define TARGET_NETBSD_NR_mq_unlink 259
#define TARGET_NETBSD_NR_mq_getattr 260
#define TARGET_NETBSD_NR_mq_setattr 261
#define TARGET_NETBSD_NR_mq_notify 262
#define TARGET_NETBSD_NR_mq_send 263
#define TARGET_NETBSD_NR_mq_receive 264
#define TARGET_NETBSD_NR_mq_timedsend 265
#define TARGET_NETBSD_NR_mq_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define
TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_pwritev 290
#define TARGET_NETBSD_NR_compat_16___sigaction14 291
#define TARGET_NETBSD_NR___sigpending14 292
#define TARGET_NETBSD_NR___sigprocmask14 293
#define TARGET_NETBSD_NR___sigsuspend14 294
#define TARGET_NETBSD_NR_compat_16___sigreturn14 295
#define TARGET_NETBSD_NR___getcwd 296
#define TARGET_NETBSD_NR_fchroot 297
#define TARGET_NETBSD_NR_compat_30_fhopen 298
#define TARGET_NETBSD_NR_compat_30_fhstat 299
#define TARGET_NETBSD_NR_compat_20_fhstatfs 300
#define TARGET_NETBSD_NR_____semctl13 301
#define TARGET_NETBSD_NR___msgctl13 302
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#define TARGET_NETBSD_NR_lchflags
304
#define TARGET_NETBSD_NR_issetugid 305

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#define TARGET_NETBSD_NR_utrace      306
#define TARGET_NETBSD_NR_getcontext  307
#define TARGET_NETBSD_NR_setcontext  308
#define TARGET_NETBSD_NR__lwp_create 309
#define TARGET_NETBSD_NR__lwp_exit   310
#define TARGET_NETBSD_NR__lwp_self   311
#define TARGET_NETBSD_NR__lwp_wait   312
#define TARGET_NETBSD_NR__lwp_suspend        313
#define TARGET_NETBSD_NR__lwp_continue       314
#define TARGET_NETBSD_NR__lwp_wakeup 315
#define TARGET_NETBSD_NR__lwp_getprivate     316
#define TARGET_NETBSD_NR__lwp_setprivate     317
#define TARGET_NETBSD_NR__lwp_kill   318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park   320
#define TARGET_NETBSD_NR__lwp_unpark 321
#define TARGET_NETBSD_NR__lwp_unpark_all     322
#define TARGET_NETBSD_NR__lwp_setname        323
#define TARGET_NETBSD_NR__lwp_getname        324
#define TARGET_NETBSD_NR__lwp_ctl    325
#define TARGET_NETBSD_NR_sa_register 330
#define TARGET_NETBSD_NR_sa_stacks
  331
#define TARGET_NETBSD_NR_sa_enable   332
#define TARGET_NETBSD_NR_sa_setconcurrency   333
#define TARGET_NETBSD_NR_sa_yield    334
#define TARGET_NETBSD_NR_sa_preempt  335
#define TARGET_NETBSD_NR_sa_unblockyield     336
#define TARGET_NETBSD_NR___sigaction_sigtramp        340
#define TARGET_NETBSD_NR_pmc_get_info        341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl      343
#define TARGET_NETBSD_NR_kqueue      344
#define TARGET_NETBSD_NR_kevent      345
#define TARGET_NETBSD_NR__sched_setparam     346
#define TARGET_NETBSD_NR__sched_getparam     347
#define TARGET_NETBSD_NR__sched_setaffinity  348
#define TARGET_NETBSD_NR__sched_getaffinity  349
#define TARGET_NETBSD_NR_sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen     355
#define TARGET_NETBSD_NR_getvfsstat  356
#define TARGET_NETBSD_NR_statvfs1    357
#define TARGET_NETBSD_NR_fstatvfs1   358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs1        359
#define
 TARGET_NETBSD_NR_extattrctl  360
#define TARGET_NETBSD_NR_extattr_set_file    361
```

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#define TARGET_NETBSD_NR_extattr_get_file    362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd      364
#define TARGET_NETBSD_NR_extattr_get_fd      365
#define TARGET_NETBSD_NR_extattr_delete_fd   366
#define TARGET_NETBSD_NR_extattr_set_link    367
#define TARGET_NETBSD_NR_extattr_get_link    368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd     370
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```
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
/*
*  i386 thread support
*
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*/

#ifndef TARGET_ARCH_THREAD_H
#define TARGET_ARCH_THREAD_H

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
  abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
  /* XXX */
}

static
 inline void target_thread_init(struct target_pt_regs *regs,
      struct image_info *infop)
{
  regs->esp = infop->start_stack;
  regs->eip = infop->entry;
```

```
  /*
   * SVR4/i386 ABI (pages 3-31, 3-32) says that when the program starts %edx
   * contains a pointer to a function which might be registered using
   * `atexit'.  This provides a mean for the dynamic linker to call DT_FINI
   * functions for shared libraries that have been loaded before the code
   * runs.
   *
   * A value of 0 tells we have no such handler.
   */
  regs->edx = 0;
}

#endif /* TARGET_ARCH_THREAD_H */
/*
*  process related system call shims and definitions
*
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#ifndef BSD_USER_FREEBSD_OS_PROC_H
#define BSD_USER_FREEBSD_OS_PROC_H

#include <sys/param.h>
#include <sys/procctl.h>
#include <sys/signal.h>
#include <sys/types.h>
#include <sys/procdesc.h>
#include <sys/wait.h>
#include <unistd.h>

#include
 "target_arch_cpu.h"

pid_t safe_wait4(pid_t wpid, int *status, int options, struct rusage *rusage);
```

```
pid_t safe_wait6(idtype_t idtype, id_t id, int *status, int options,
  struct __wrusage *wrusage, siginfo_t *infop);

extern int __setugid(int flag);

/* execve(2) */
static inline abi_long do_freebsd_execve(abi_ulong path_or_fd, abi_ulong argp,
      abi_ulong envp)
{

  return freebsd_exec_common(path_or_fd, argp, envp, 0);
}

/* fexecve(2) */
static inline abi_long do_freebsd_fexecve(abi_ulong path_or_fd, abi_ulong argp,
      abi_ulong envp)
{

  return freebsd_exec_common(path_or_fd, argp, envp, 1);
}

/* wait4(2) */
static inline abi_long do_freebsd_wait4(abi_long arg1, abi_ulong target_status,
      abi_long arg3, abi_ulong target_rusage)
{
  abi_long ret;
  int status;
  struct rusage rusage, *rusage_ptr = NULL;

  if (target_rusage) {
     rusage_ptr = &rusage;
  }
  ret = get_errno(safe_wait4(arg1, &status, arg3, rusage_ptr));

  if (ret < 0)
 {
     return ret;
  }
  if (target_status != 0) {
     status = host_to_target_waitstatus(status);
     if (put_user_s32(status, target_status) != 0) {
        return -TARGET_EFAULT;
     }
  }
  if (target_rusage != 0) {
     host_to_target_rusage(target_rusage, &rusage);
  }
  return ret;
```

```
}

/* wait6(2) */
static inline abi_long do_freebsd_wait6(void *cpu_env, abi_long idtype,
  abi_long id1, abi_long id2,
  abi_ulong target_status, abi_long options, abi_ulong target_wrusage,
  abi_ulong target_infop, abi_ulong pad1)
{
  abi_long ret;
  int status;
  struct __wrusage wrusage, *wrusage_ptr = NULL;
  siginfo_t info;
  void *p;

  if (regpairs_aligned(cpu_env) != 0) {
     /* printf("shifting args\n"); */
     /* 64-bit id is aligned, so shift all the arguments over by one */
     id1 = id2;
     id2 = target_status;
     target_status = options;
     options = target_wrusage;
     target_wrusage = target_infop;

    target_infop = pad1;
  }

  if (target_wrusage) {
     wrusage_ptr = &wrusage;
  }
  ret = get_errno(safe_wait6(idtype, target_arg64(id1, id2),
                             &status, options, wrusage_ptr, &info));

  if (ret < 0) {
     return ret;
  }
  if (target_status != 0) {
     status = host_to_target_waitstatus(status);
     if (put_user_s32(status, target_status) != 0) {
        return -TARGET_EFAULT;
     }
  }
  if (target_wrusage != 0) {
     host_to_target_wrusage(target_wrusage, &wrusage);
  }
  if (target_infop != 0) {
     p = lock_user(VERIFY_WRITE, target_infop, sizeof(target_siginfo_t), 0);
     if (p == NULL) {
        return -TARGET_EFAULT;
```

```
        }
        host_to_target_siginfo(p, &info);
        unlock_user(p, target_infop, sizeof(target_siginfo_t));
    }
    return ret;
}

/* setloginclass(2) */
static inline abi_long do_freebsd_setloginclass(abi_ulong arg1)
{
    abi_long ret;
    void *p;

    p = lock_user_string(arg1);
     if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(setloginclass(p));
    unlock_user(p, arg1, 0);

    return ret;
}

/* getloginclass(2) */
static inline abi_long do_freebsd_getloginclass(abi_ulong arg1, abi_ulong arg2)
{
    abi_long ret;
    void *p;

    p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(getloginclass(p, arg2));
    unlock_user(p, arg1, arg2);

    return ret;
}

/* pdgetpid(2) */
static inline abi_long do_freebsd_pdgetpid(abi_long fd, abi_ulong target_pidp)
{
    abi_long ret;
    pid_t pid;

    ret = get_errno(pdgetpid(fd, &pid));
    if (!is_error(ret)) {
        if (put_user_u32(pid, target_pidp)) {
```

```
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* undocumented __setugid */
static inline abi_long do_freebsd___setugid(abi_long arg1)
{
    return -TARGET_ENOSYS;
}

/* fork(2) */
static inline abi_long do_freebsd_fork(void
 *cpu_env)
{
    abi_long ret;
    abi_ulong child_flag;

    fork_start();
    ret = fork();
    if (ret == 0) {
        /* child */
        child_flag = 1;
        target_cpu_clone_regs(cpu_env, 0);
    } else {
        /* parent */
        child_flag = 0;
    }

    /*
     * The fork system call sets a child flag in the second return
     * value: 0 for parent process, 1 for child process.
     */
    set_second_rval(cpu_env, child_flag);

    fork_end(child_flag);

    return ret;
}

/* vfork(2) */
static inline abi_long do_freebsd_vfork(void *cpu_env)
{
    return do_freebsd_fork(cpu_env);
}

/* rfork(2) */
```

```
static inline abi_long do_freebsd_rfork(void *cpu_env, abi_long flags)
{
  abi_long ret;
  abi_ulong child_flag;

  /*
   * XXX We need to handle RFMEM here, as well.  Neither are safe to execute
   * as-is on x86 hosts because they'll split memory but not the stack,
   * wreaking havoc on host architectures that use the stack to store the
   * return address as
 both threads try to pop it off.  Rejecting RFSPAWN
   * entirely for now is ok, the only consumer at the moment is posix_spawn
   * and it will fall back to classic vfork(2) if we return EINVAL.
   */
  if ((flags & TARGET_RFSPAWN) != 0) {
     return -TARGET_EINVAL;
  }
  fork_start();
  ret = rfork(flags);
  if (ret == 0) {
     /* child */
     child_flag = 1;
     target_cpu_clone_regs(cpu_env, 0);
  } else {
     /* parent */
     child_flag = 0;
  }

  /*
   * The fork system call sets a child flag in the second return
   * value: 0 for parent process, 1 for child process.
   */
  set_second_rval(cpu_env, child_flag);
  fork_end(child_flag);

  return ret;

}

/* pdfork(2) */
static inline abi_long do_freebsd_pdfork(void *cpu_env, abi_ulong target_fdp,
      abi_long flags)
{
  abi_long ret;
  abi_ulong child_flag;
  int fd;

  fork_start();
```

```
  ret = pdfork(&fd, flags);
  if (ret == 0) {
     /* child */

  child_flag = 1;
     target_cpu_clone_regs(cpu_env, 0);
  } else {
     /* parent */
     child_flag = 0;
     if (put_user_s32(fd, target_fdp)) {
        return -TARGET_EFAULT;
     }
  }

  /*
   * The fork system call sets a child flag in the second return
   * value: 0 for parent process, 1 for child process.
   */
  set_second_rval(cpu_env, child_flag);
  fork_end(child_flag);

  return ret;
}

#endif /* BSD_USER_FREEBSD_OS_PROC_H */
/*
*  i386 system call definitions
*
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

/* default linux values for the selectors */
#define __USER_CS (0x23)
#define __USER_DS (0x2B)
```

```
struct target_pt_regs {
 long ebx;
 long ecx;
 long edx;
 long esi;
 long edi;
 long ebp;
 long eax;
 int  xds;
 int  xes;
 long orig_eax;
 long eip;
 int
  xcs;
 long eflags;
 long esp;
 int  xss;
};

/* ioctls */

#define TARGET_LDT_ENTRIES      8192
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES             9
#define TARGET_GDT_ENTRY_TLS_ENTRIES   3
#define TARGET_GDT_ENTRY_TLS_MIN       6
#define TARGET_GDT_ENTRY_TLS_MAX       (TARGET_GDT_ENTRY_TLS_MIN +
TARGET_GDT_ENTRY_TLS_ENTRIES - 1)

struct target_modify_ldt_ldt_s {
   unsigned int  entry_number;
   abi_ulong base_addr;
   unsigned int limit;
   unsigned int flags;
};

/* vm86 defines */

#define TARGET_BIOSSEG  0x0f000

#define TARGET_CPU_086  0
#define TARGET_CPU_186  1
#define TARGET_CPU_286  2
#define TARGET_CPU_386  3
#define TARGET_CPU_486  4
#define TARGET_CPU_586  5
```

```
#define TARGET_VM86_SIGNAL 0 /* return due to signal */
#define TARGET_VM86_UNKNOWN 1 /* unhandled GP fault - IO-instruction or similar */
#define TARGET_VM86_INTx 2 /* int3/int x instruction (ARG = x) */
#define TARGET_VM86_STI 3 /* sti/popf/iret instruction enabled virtual interrupts */

/*
 * Additional return values when invoking new vm86()
*/
#define TARGET_VM86_PICRETURN 4 /* return due to pending PIC request */
#define TARGET_VM86_TRAP 6 /* return due to DOS-debugger request */

/*
* function codes when invoking new vm86()
*/
#define TARGET_VM86_PLUS_INSTALL_CHECK 0
#define TARGET_VM86_ENTER  1
#define TARGET_VM86_ENTER_NO_BYPASS 2
#define TARGET_VM86_REQUEST_IRQ 3
#define TARGET_VM86_FREE_IRQ  4
#define TARGET_VM86_GET_IRQ_BITS 5
#define TARGET_VM86_GET_AND_RESET_IRQ 6

/*
* This is the stack-layout seen by the user space program when we have
* done a translation of "SAVE_ALL" from vm86 mode. The real kernel layout
* is 'kernel_vm86_regs' (see below).
*/

struct target_vm86_regs {
/*
* normal regs, with special meaning for the segment descriptors..
*/
 abi_long ebx;
 abi_long ecx;
 abi_long edx;
 abi_long esi;
 abi_long edi;
 abi_long ebp;
 abi_long eax;
 abi_long __null_ds;
 abi_long __null_es;
 abi_long __null_fs;
 abi_long __null_gs;
 abi_long orig_eax;
 abi_long
 eip;
 unsigned short cs, __csh;
```

```
 abi_long eflags;
 abi_long esp;
 unsigned short ss, __ssh;
/*
* these are specific to v86 mode:
*/
 unsigned short es, __esh;
 unsigned short ds, __dsh;
 unsigned short fs, __fsh;
 unsigned short gs, __gsh;
};

struct target_revectored_struct {
 abi_ulong __map[8];   /* 256 bits */
};

struct target_vm86_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
};

/*
* flags masks
*/
#define TARGET_VM86_SCREEN_BITMAP 0x0001

struct target_vm86plus_info_struct {
      abi_ulong flags;
#define TARGET_force_return_for_pic (1 << 0)
#define TARGET_vm86dbg_active       (1 << 1)  /* for debugger */
#define TARGET_vm86dbg_TFpendig     (1 << 2)  /* for debugger */
#define TARGET_is_vm86pus           (1 << 31) /* for vm86 internal use */
 unsigned char vm86dbg_intxxtab[32];   /* for debugger */
};

struct
 target_vm86plus_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
 struct target_vm86plus_info_struct vm86plus;
```

```
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
   /* I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
   /* xxxxx */
#define TARGET_FREEBSD_I386_VM86 6
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10


#define UNAME_MACHINE "i386"
#define TARGET_HW_MACHINE UNAME_MACHINE
#define TARGET_HW_MACHINE_ARCH UNAME_MACHINE

#endif /* TARGET_SYSCALL_H */
/*
*  OpenBSD host dependent code and definitions
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*/

#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_openbsd

#endif /* HOST_OS_H */
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                  Version 2, June 1991
```

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*/

#ifndef BSD_USER_FREEBSD_OS_STAT_H
#define BSD_USER_FREEBSD_OS_STAT_H

int freebsd11_stat(const char *path, struct freebsd11_stat *stat);
__sym_compat(stat, freebsd11_stat, FBSD_1.0);
int freebsd11_lstat(const char *path, struct freebsd11_stat
 *stat);
__sym_compat(lstat, freebsd11_lstat, FBSD_1.0);
int freebsd11_fstat(int fd, struct freebsd11_stat *stat);
__sym_compat(fstat, freebsd11_fstat, FBSD_1.0);
int freebsd11_fstatat(int fd, const char *path, struct freebsd11_stat *stat,

```
      int flag);
__sym_compat(fstatat, freebsd11_fstatat, FBSD_1.1);

int freebsd11_fhstat(const fhandle_t *fhandle, struct freebsd11_stat *stat);
__sym_compat(fhstat, freebsd11_fhstat, FBSD_1.0);
int freebsd11_getfsstat(struct freebsd11_statfs *buf, long bufsize, int mode);
__sym_compat(getfsstat, freebsd11_getfsstat, FBSD_1.0);
int freebsd11_fhstatfs(const fhandle_t *fhandle, struct freebsd11_statfs * buf);
__sym_compat(fhstatfs, freebsd11_fhstatfs, FBSD_1.0);
int freebsd11_statfs(const char *path, struct freebsd11_statfs *buf);
__sym_compat(statfs, freebsd11_statfs, FBSD_1.0);
int freebsd11_fstatfs(int fd, struct freebsd11_statfs *buf);
__sym_compat(fstatfs, freebsd11_fstatfs, FBSD_1.0);

ssize_t freebsd11_getdirentries(int fd, char *buf, size_t
 nbytes, off_t *basep);
__sym_compat(getdirentries, freebsd11_getdirentries, FBSD_1.0);
ssize_t freebsd11_getdents(int fd, char *buf, size_t nbytes);
__sym_compat(getdents, freebsd11_getdents, FBSD_1.0);

/* undocumented nstat system calls */
int freebsd11_nstat(const char *path, struct freebsd11_stat *sb);
__sym_compat(nstat, freebsd11_nstat, FBSD_1.0);
int freebsd11_nlstat(const char *path, struct freebsd11_stat *sb);
__sym_compat(nlstat, freebsd11_nlstat, FBSD_1.0);
int freebsd11_nfstat(int fd, struct freebsd11_stat *sb);
__sym_compat(nfstat, freebsd11_nfstat, FBSD_1.0);

/* stat(2) */
static inline abi_long do_freebsd11_stat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_stat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
      ret = h2t_freebsd11_stat(arg2, &st);
  }
  return ret;
}

/* lstat(2) */
static inline abi_long do_freebsd11_lstat(abi_long arg1, abi_long
 arg2)
{
```

```
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_lstat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
     ret = h2t_freebsd11_stat(arg2, &st);
  }
  return ret;
}

/* fstat(2) */
static inline abi_long do_freebsd11_fstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  struct freebsd11_stat st;

  ret = get_errno(freebsd11_fstat(arg1, &st));
  if (!is_error(ret))  {
     ret = h2t_freebsd11_stat(arg2, &st);
  }
  return ret;
}

/* fstat(2) */
static inline abi_long do_freebsd_fstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  struct stat st;

  ret = get_errno(fstat(arg1, &st));
  if (!is_error(ret))  {
     ret = h2t_freebsd_stat(arg2, &st);
  }
  return ret;
}

/* fstatat(2) */
static inline abi_long do_freebsd11_fstatat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat
 st;
```

```
  LOCK_PATH(p, arg2);
  ret = get_errno(freebsd11_fstatat(arg1, p, &st, arg4));
  UNLOCK_PATH(p, arg2);
  if (!is_error(ret) && arg3) {
      ret = h2t_freebsd11_stat(arg3, &st);
  }
  return ret;
}

/* fstatat(2) */
static inline abi_long do_freebsd_fstatat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;
  struct stat st;

  LOCK_PATH(p, arg2);
  ret = get_errno(fstatat(arg1, p, &st, arg4));
  UNLOCK_PATH(p, arg2);
  if (!is_error(ret) && arg3) {
      ret = h2t_freebsd_stat(arg3, &st);
  }
  return ret;
}

/* undocumented nstat(char *path, struct nstat *ub) syscall */
static abi_long do_freebsd11_nstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_nstat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
      ret = h2t_freebsd11_nstat(arg2, &st);
  }
  return ret;
}

/*
 undocumented nfstat(int fd, struct nstat *sb) syscall */
static abi_long do_freebsd11_nfstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  struct freebsd11_stat st;
```

```
  ret = get_errno(freebsd11_nfstat(arg1, &st));
  if (!is_error(ret))  {
     ret = h2t_freebsd11_nstat(arg2, &st);
  }
  return ret;
}

/* undocumented nlstat(char *path, struct nstat *ub) syscall */
static abi_long do_freebsd11_nlstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_nlstat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
     ret = h2t_freebsd11_nstat(arg2, &st);
  }
  return ret;
}

/* getfh(2) */
static abi_long do_freebsd_getfh(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  fhandle_t host_fh;

  LOCK_PATH(p, arg1);
  ret = get_errno(getfh(path(p), &host_fh));
  UNLOCK_PATH(p, arg1);
  if (is_error(ret)) {
     return ret;

  }
  return h2t_freebsd_fhandle(arg2, &host_fh);
}

/* lgetfh(2) */
static inline abi_long do_freebsd_lgetfh(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  fhandle_t host_fh;
```

```
  LOCK_PATH(p, arg1);
  ret = get_errno(lgetfh(path(p), &host_fh));
  UNLOCK_PATH(p, arg1);
  if (is_error(ret)) {
     return ret;
  }
  return h2t_freebsd_fhandle(arg2, &host_fh);
}

/* fhopen(2) */
static inline abi_long do_freebsd_fhopen(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  fhandle_t host_fh;

  ret = t2h_freebsd_fhandle(&host_fh, arg1);
  if (is_error(ret)) {
     return ret;
  }

  return get_errno(fhopen(&host_fh, arg2));
}

/* fhstat(2) */
static inline abi_long do_freebsd11_fhstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  fhandle_t host_fh;
  struct freebsd11_stat host_sb;

  ret = t2h_freebsd_fhandle(&host_fh, arg1);
  if (is_error(ret)) {
     return ret;
  }
  ret = get_errno(freebsd11_fhstat(&host_fh, &host_sb));
   if (is_error(ret)) {
     return ret;
  }
  return h2t_freebsd11_stat(arg2, &host_sb);
}

/* fhstat(2) */
static inline abi_long do_freebsd_fhstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  fhandle_t host_fh;
  struct stat host_sb;
```

```
  ret = t2h_freebsd_fhandle(&host_fh, arg1);
  if (is_error(ret)) {
      return ret;
  }
  ret = get_errno(fhstat(&host_fh, &host_sb));
  if (is_error(ret)) {
      return ret;
  }
  return h2t_freebsd_stat(arg2, &host_sb);
}

/* fhstatfs(2) */
static inline abi_long do_freebsd11_fhstatfs(abi_ulong target_fhp_addr,
      abi_ulong target_stfs_addr)
{
  abi_long ret;
  fhandle_t host_fh;
  struct freebsd11_statfs host_stfs;

  ret = t2h_freebsd_fhandle(&host_fh, target_fhp_addr);
  if (is_error(ret)) {
      return ret;
  }
  ret = get_errno(freebsd11_fhstatfs(&host_fh, &host_stfs));
  if (is_error(ret)) {
      return ret;
  }
  return h2t_freebsd11_statfs(target_stfs_addr, &host_stfs);
}

/*
 fhstatfs(2) */
static inline abi_long do_freebsd_fhstatfs(abi_ulong target_fhp_addr,
      abi_ulong target_stfs_addr)
{
  abi_long ret;
  fhandle_t host_fh;
  struct statfs host_stfs;

  ret = t2h_freebsd_fhandle(&host_fh, target_fhp_addr);
  if (is_error(ret)) {
      return ret;
  }
  ret = get_errno(fhstatfs(&host_fh, &host_stfs));
  if (is_error(ret)) {
      return ret;
  }
  return h2t_freebsd_statfs(target_stfs_addr, &host_stfs);
```

```
}

/* statfs(2) */
static inline abi_long do_freebsd11_statfs(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_statfs host_stfs;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_statfs(path(p), &host_stfs));
  UNLOCK_PATH(p, arg1);
  if (is_error(ret)) {
     return ret;
  }

  return h2t_freebsd11_statfs(arg2, &host_stfs);
}

/* statfs(2) */
static inline abi_long do_freebsd_statfs(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct statfs host_stfs;

   LOCK_PATH(p, arg1);
  ret = get_errno(statfs(path(p), &host_stfs));
  UNLOCK_PATH(p, arg1);
  if (is_error(ret)) {
     return ret;
  }

  return h2t_freebsd_statfs(arg2, &host_stfs);
}

/* fstatfs(2) */
static inline abi_long do_freebsd11_fstatfs(abi_long fd, abi_ulong target_addr)
{
  abi_long ret;
  struct freebsd11_statfs host_stfs;

  ret = get_errno(freebsd11_fstatfs(fd, &host_stfs));
  if (is_error(ret)) {
     return ret;
  }

  return h2t_freebsd11_statfs(target_addr, &host_stfs);
```

```
}

/* fstatfs(2) */
static inline abi_long do_freebsd_fstatfs(abi_long fd, abi_ulong target_addr)
{
  abi_long ret;
  struct statfs host_stfs;

  ret = get_errno(fstatfs(fd, &host_stfs));
  if (is_error(ret)) {
     return ret;
  }

  return h2t_freebsd_statfs(target_addr, &host_stfs);
}

/* getfsstat(2) */
static inline abi_long do_freebsd11_getfsstat(abi_ulong target_addr,
      abi_long bufsize, abi_long flags)
{
  abi_long ret;
  struct freebsd11_statfs
 *host_stfs;
  int count;
  long host_bufsize;

  count = bufsize / sizeof(struct target_freebsd11_statfs);

  /* if user buffer is NULL then return number of mounted FS's */
  if (target_addr == 0 || count == 0) {
     return get_errno(freebsd11_getfsstat(NULL, 0, flags));
  }

  /* XXX check count to be reasonable */
  host_bufsize = sizeof(struct freebsd11_statfs) * count;
  host_stfs = alloca(host_bufsize);
  if (!host_stfs) {
     return -TARGET_EINVAL;
  }

  ret = count = get_errno(freebsd11_getfsstat(host_stfs, host_bufsize, flags));
  if (is_error(ret)) {
     return ret;
  }

  while (count--) {
     if (h2t_freebsd11_statfs((target_addr +
                  (count * sizeof(struct target_freebsd11_statfs))),
```

```
                &host_stfs[count])) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* getfsstat(2) */
static inline abi_long do_freebsd_getfsstat(abi_ulong target_addr,
        abi_long
 bufsize, abi_long flags)
{
    abi_long ret;
    struct statfs *host_stfs;
    int count;
    long host_bufsize;

    count = bufsize / sizeof(struct target_statfs);

    /* if user buffer is NULL then return number of mounted FS's */
    if (target_addr == 0 || count == 0) {
        return get_errno(freebsd11_getfsstat(NULL, 0, flags));
    }

    /* XXX check count to be reasonable */
    host_bufsize = sizeof(struct statfs) * count;
    host_stfs = alloca(host_bufsize);
    if (!host_stfs) {
        return -TARGET_EINVAL;
    }

    ret = count = get_errno(getfsstat(host_stfs, host_bufsize, flags));
    if (is_error(ret)) {
        return ret;
    }

    while (count--) {
        if (h2t_freebsd_statfs((target_addr +
                    (count * sizeof(struct target_statfs))),
                &host_stfs[count])) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* getdents(2) */
static inline abi_long do_freebsd11_getdents(abi_long arg1,
```

```
        abi_ulong
 arg2, abi_long nbytes)
{
  abi_long ret;
  struct freebsd11_dirent *dirp;

  dirp = lock_user(VERIFY_WRITE, arg2, nbytes, 0);
  if (dirp == NULL) {
      return -TARGET_EFAULT;
  }
  ret = get_errno(freebsd11_getdents(arg1, (char *)dirp, nbytes));
  if (!is_error(ret)) {
      struct freebsd11_dirent *de;
      int len = ret;
      int reclen;

      de = dirp;
      while (len > 0) {
          reclen = de->d_reclen;
          if (reclen > len) {
              return -TARGET_EFAULT;
          }
          de->d_reclen = tswap16(reclen);
          de->d_fileno = tswap32(de->d_fileno);
          len -= reclen;
      }
  }
  return ret;
}

/* getdirecentries(2) */
static inline abi_long do_freebsd11_getdirentries(abi_long arg1,
      abi_ulong arg2, abi_long nbytes, abi_ulong arg4)
{
  abi_long ret;
  struct freebsd11_dirent *dirp;
  long basep;

  dirp = lock_user(VERIFY_WRITE, arg2, nbytes, 0);
  if (dirp == NULL) {

 return -TARGET_EFAULT;
  }
  ret = get_errno(freebsd11_getdirentries(arg1, (char *)dirp, nbytes, &basep));
  if (!is_error(ret)) {
      struct freebsd11_dirent *de;
      int len = ret;
      int reclen;
```

```
        de = dirp;
        while (len > 0) {
            reclen = de->d_reclen;
            if (reclen > len) {
                return -TARGET_EFAULT;
            }
            de->d_reclen = tswap16(reclen);
            de->d_fileno = tswap32(de->d_fileno);
            len -= reclen;
            de = (struct freebsd11_dirent *)((void *)de + reclen);
        }
    }
    unlock_user(dirp, arg2, ret);
    if (arg4) {
        if (put_user(basep, arg4, abi_ulong)) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* getdirecentries(2) */
static inline abi_long do_freebsd_getdirentries(abi_long arg1,
        abi_ulong arg2, abi_long nbytes, abi_ulong arg4)
{
    abi_long ret;
    struct dirent *dirp;
    long basep;

    dirp = lock_user(VERIFY_WRITE, arg2,
   nbytes, 0);
    if (dirp == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(getdirentries(arg1, (char *)dirp, nbytes, &basep));
    if (!is_error(ret)) {
        struct dirent *de;
        int len = ret;
        int reclen;

        de = dirp;
        while (len > 0) {
            reclen = de->d_reclen;
            if (reclen > len) {
                return -TARGET_EFAULT;
            }
            de->d_fileno = tswap64(de->d_fileno);
```

```
            de->d_off = tswap64(de->d_off);
            de->d_reclen = tswap16(de->d_reclen);
            de->d_namlen = tswap16(de->d_namlen);
            len -= reclen;
            de = (struct dirent *)((void *)de + reclen);
        }
    }
    unlock_user(dirp, arg2, ret);
    if (arg4) {
        if (put_user(basep, arg4, abi_ulong)) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* fcntl(2) */
static inline abi_long do_freebsd_fcntl(abi_long arg1, abi_long arg2,
        abi_ulong arg3)
{
    abi_long ret;
     int host_cmd;
    struct flock fl;
    struct target_freebsd_flock *target_fl;

    host_cmd = target_to_host_fcntl_cmd(arg2);
    if (host_cmd < 0) {
        return host_cmd;
    }
    switch (arg2) {
    case TARGET_F_GETLK:
        if (!lock_user_struct(VERIFY_READ, target_fl, arg3, 1)) {
            return -TARGET_EFAULT;
        }
        __get_user(fl.l_type, &target_fl->l_type);
        __get_user(fl.l_whence, &target_fl->l_whence);
        __get_user(fl.l_start, &target_fl->l_start);
        __get_user(fl.l_len, &target_fl->l_len);
        __get_user(fl.l_pid, &target_fl->l_pid);
        __get_user(fl.l_sysid, &target_fl->l_sysid);
        unlock_user_struct(target_fl, arg3, 0);
        ret = get_errno(safe_fcntl(arg1, host_cmd, &fl));
        if (!is_error(ret)) {
            if (!lock_user_struct(VERIFY_WRITE, target_fl, arg3, 0)) {
                return -TARGET_EFAULT;
            }
            __put_user(fl.l_type, &target_fl->l_type);
            __put_user(fl.l_whence,
```

```
 &target_fl->l_whence);
            __put_user(fl.l_start, &target_fl->l_start);
            __put_user(fl.l_len, &target_fl->l_len);
            __put_user(fl.l_pid, &target_fl->l_pid);
            __put_user(fl.l_sysid, &target_fl->l_sysid);
            unlock_user_struct(target_fl, arg3, 1);
        }
        break;

    case TARGET_F_SETLK:
    case TARGET_F_SETLKW:
        if (!lock_user_struct(VERIFY_READ, target_fl, arg3, 1)) {
            return -TARGET_EFAULT;
        }
        __get_user(fl.l_type, &target_fl->l_type);
        __get_user(fl.l_whence, &target_fl->l_whence);
        __get_user(fl.l_start, &target_fl->l_start);
        __get_user(fl.l_len, &target_fl->l_len);
        __get_user(fl.l_pid, &target_fl->l_pid);
        __get_user(fl.l_sysid, &target_fl->l_sysid);
        unlock_user_struct(target_fl, arg3, 0);
        ret = get_errno(safe_fcntl(arg1, host_cmd, &fl));
        break;

    case TARGET_F_DUPFD:
    case TARGET_F_DUP2FD:
    case TARGET_F_GETOWN:

   case TARGET_F_SETOWN:
    case TARGET_F_GETFD:
    case TARGET_F_SETFD:
    case TARGET_F_GETFL:
    case TARGET_F_SETFL:
    case TARGET_F_READAHEAD:
    case TARGET_F_RDAHEAD:
    case TARGET_F_ADD_SEALS:
    case TARGET_F_GET_SEALS:
    default:
        ret = get_errno(safe_fcntl(arg1, host_cmd, arg3));
        break;
    }
    return ret;
}

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300080
extern int __realpathat(int fd, const char *path, char *buf, size_t size,
        int flags);
/* https://svnweb.freebsd.org/base?view=revision&revision=358172 */
```

```
/* no man page */
static inline abi_long do_freebsd_realpathat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5)
{
  abi_long ret;
  void *p, *b;

  LOCK_PATH(p, arg2);
  b = lock_user(VERIFY_WRITE, arg3, arg4, 0);
  if (b == NULL) {
     UNLOCK_PATH(p, arg2);
     return -TARGET_EFAULT;
  }

  ret = get_errno(__realpathat(arg1, p, b, arg4, arg5));
  UNLOCK_PATH(p, arg2);
   unlock_user(b, arg3, ret);

  return ret;
}
#endif

#endif /* BSD_USER_FREEBSD_OS_STAT_H */
```

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use U-Boot services by means of the jump table provided by U-Boot
exactly for this purpose - this is merely considered normal use of
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 The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
not fall under the heading of "derived work".
-- Wolfgang Denk

```
/* XXX NetBSD dependent strace print functions */
/*
* Intel general target stuff that's common to all i386 details
*
* Copyright (c) 2022 M. Warner Losh <imp@bsdimp.com>
*
* SPDX-License-Identifier: GPL-2.0-or-later
*/

#ifndef TARGET_H
#define TARGET_H
```

```
/*
* arm EABI 'lumps' the registers for 64-bit args.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
  return true;
}

#endif /* TARGET_H */
```

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/*
* FreeBSD siginfo related definitions
*
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* along with this program; if not, see <http://www.gnu.org/licenses/>.
*/

#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H

#define TARGET_NSIG   128
#define TARGET_NSIG_BPW   (sizeof(uint32_t) * 8)

```
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling
 */
typedef struct target_sigaltstack {
  abi_long    ss_sp;
  abi_ulong   ss_size;
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t;

struct target_sigaction {
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

typedef union target_sigval {
  int32_t sival_int;
  abi_ulong sival_ptr;
  int32_t sigval_int;
  abi_ulong sigval_ptr;
} target_sigval_t;

typedef struct target_siginfo {
  int32_t si_signo;   /* signal number */
  int32_t si_errno;   /* errno association */
  int32_t si_code;    /* signal code */
  int32_t si_pid;     /* sending process */
  int32_t si_uid;     /* sender's ruid */
  int32_t si_status;  /* exit value */
  abi_ulong si_addr;  /* faulting instruction */
  union target_sigval si_value;   /* signal value */
  union {
     struct {
        int32_t _trapno;    /* machine specific trap code */
     } _fault;


  /* POSIX.1b timers */
     struct {
        int32_t _timerid;
        int32_t _overrun;
     } _timer;
```

```
        struct {
            int32_t _mqd;
        } _mesgp;

        /* SIGPOLL -- Not really generated in FreeBSD ??? */
        struct {
            int _band;  /* POLL_IN, POLL_OUT, POLL_MSG */
        } _poll;

        struct {
            int _mqd;
        } _mesgq;

        struct {
            /*
             * Syscall number for signals delivered as a result of system calls
             * denied by Capsicum.
             */
            int _syscall;
        } _capsicum;

        /* Spare for future growth */
        struct {
            abi_long __spare1__;
            int32_t  __spare2_[7];
        } __spare__;
    } _reason;
} target_siginfo_t;

struct target_sigevent {
    abi_int sigev_notify;
    abi_int sigev_signo;
    target_sigval_t sigev_value;
    union {
        abi_int _threadid;

        /*
         * The kernel (and thus QEMU) never looks at these;
          * they're only used as part of the ABI between a
         * userspace program and libc.
         */
        struct {
            abi_ulong _function;
            abi_ulong _attribute;
        } _sigev_thread;
        abi_ushort _kevent_flags;
        abi_long _pad[8];
    } _sigev_un;
```

```
};

#define target_si_signo     si_signo
#define target_si_code      si_code
#define target_si_errno     si_errno
#define target_si_addr      si_addr

/* SIGILL si_codes */
#define TARGET_ILL_ILLOPC   (1) /* Illegal opcode. */
#define TARGET_ILL_ILLOPN   (2) /* Illegal operand. */
#define TARGET_ILL_ILLADR   (3) /* Illegal addressing mode. */
#define TARGET_ILL_ILLTRP   (4) /* Illegal trap. */
#define TARGET_ILL_PRVOPC   (5) /* Privileged opcode. */
#define TARGET_ILL_PRVREG   (6) /* Privileged register. */
#define TARGET_ILL_COPROC   (7) /* Coprocessor error. */
#define TARGET_ILL_BADSTK   (8) /* Internal stack error. */

/* SIGSEGV si_codes */
#define TARGET_SEGV_MAPERR  (1) /* address not
 mapped to object */
#define TARGET_SEGV_ACCERR  (2) /* invalid permissions for mapped object */

/* SIGTRAP si_codes */
#define TARGET_TRAP_BRKPT   (1) /* process beakpoint */
#define TARGET_TRAP_TRACE   (2) /* process trace trap */

/* SIGBUS si_codes */
#define TARGET_BUS_ADRALN   (1)
#define TARGET_BUS_ADRERR   (2)
#define TARGET_BUS_OBJERR   (3)

/* SIGFPE codes */
#define TARGET_FPE_INTOVF   (1) /* Integer overflow. */
#define TARGET_FPE_INTDIV   (2) /* Integer divide by zero. */
#define TARGET_FPE_FLTDIV   (3) /* Floating point divide by zero. */
#define TARGET_FPE_FLTOVF   (4) /* Floating point overflow. */
#define TARGET_FPE_FLTUND   (5) /* Floating point underflow. */
#define TARGET_FPE_FLTRES   (6) /* Floating point inexact result. */
#define TARGET_FPE_FLTINV   (7) /* Invalid floating point operation. */
#define TARGET_FPE_FLTSUB   (8) /* Subscript out of range. */

#endif /* TARGET_OS_SIGINFO_H */
# See docs/devel/tracing.rst for syntax documentation.

# bsd-user/signal.c
user_setup_frame(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_setup_rt_frame(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_do_rt_sigreturn(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
```

```
user_do_sigreturn(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_dump_core_and_abort(void *env, int target_sig, int host_sig) "env=%p signal %d (host %d)"
user_handle_signal(void *env, int target_sig) "env=%p signal %d"
user_host_signal(void *env, int host_sig, int target_sig) "env=%p signal %d (target %d("
user_queue_signal(void *env, int target_sig) "env=%p signal %d"
/*
*  arm sysarch() system call emulation
*
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*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

/* Compare to arm/arm/locore.S ENTRY_NP(sigcode) */
static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{
  int i;
  uint32_t sys_exit
 = TARGET_FREEBSD_NR_exit;
  uint32_t sigtramp_code[] = {
  /* 1 */ 0xE1A0000D,                /* mov r0, sp */
  /* 2 */ 0xE2800000 + sigf_uc,       /* add r0, r0, #SIGF_UC */
  /* 3 */ 0xE59F700C,                /* ldr r7, [pc, #12] */
  /* 4 */ 0xEF000000 + sys_sigreturn,  /* swi (SYS_sigreturn) */
  /* 5 */ 0xE59F7008,                /* ldr r7, [pc, #8] */
  /* 6 */ 0xEF000000 + sys_exit,       /* swi (SYS_exit)*/
  /* 7 */ 0xEAFFFFFA,                /* b . -16 */
  /* 8 */ sys_sigreturn,
  /* 9 */ sys_exit
  };

  G_STATIC_ASSERT(sizeof(sigtramp_code) == TARGET_SZSIGCODE);
```

```
  for (i = 0; i < 9; i++) {
     tswap32s(&sigtramp_code[i]);
  }

  return memcpy_to_target(offset, sigtramp_code, TARGET_SZSIGCODE);
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/*
*  arm ELF definitions
*
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*/

#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x500000

#define elf_check_arch(x) ((x) == EM_ARM)

#define ELF_CLASS       ELFCLASS32
#define ELF_DATA        ELFDATA2LSB
#define ELF_ARCH        EM_ARM

#define USE_ELF_CORE_DUMP
#define
 ELF_EXEC_PAGESIZE       4096

#define ELF_HWCAP get_elf_hwcap()
#define ELF_HWCAP2 get_elf_hwcap2()

#define GET_FEATURE(feat, hwcap) \
  do { if (arm_feature(&cpu->env, feat)) { hwcaps |= hwcap; } } while (0)

#define GET_FEATURE_ID(feat, hwcap) \
```

```
  do { if (cpu_isar_feature(feat, cpu)) { hwcaps |= hwcap; } } while (0)

enum {
  ARM_HWCAP_ARM_SWP       = 1 << 0,
  ARM_HWCAP_ARM_HALF      = 1 << 1,
  ARM_HWCAP_ARM_THUMB     = 1 << 2,
  ARM_HWCAP_ARM_26BIT     = 1 << 3,
  ARM_HWCAP_ARM_FAST_MULT = 1 << 4,
  ARM_HWCAP_ARM_FPA       = 1 << 5,
  ARM_HWCAP_ARM_VFP       = 1 << 6,
  ARM_HWCAP_ARM_EDSP      = 1 << 7,
  ARM_HWCAP_ARM_JAVA      = 1 << 8,
  ARM_HWCAP_ARM_IWMMXT    = 1 << 9,
  ARM_HWCAP_ARM_CRUNCH    = 1 << 10,
  ARM_HWCAP_ARM_THUMBEE   = 1 << 11,
  ARM_HWCAP_ARM_NEON      = 1 << 12,
  ARM_HWCAP_ARM_VFPv3     = 1 << 13,
  ARM_HWCAP_ARM_VFPv3D16  = 1 << 14,
  ARM_HWCAP_ARM_TLS       = 1 << 15,
  ARM_HWCAP_ARM_VFPv4     = 1 << 16,
  ARM_HWCAP_ARM_IDIVA
    = 1 << 17,
  ARM_HWCAP_ARM_IDIVT     = 1 << 18,
  ARM_HWCAP_ARM_VFPD32    = 1 << 19,
  ARM_HWCAP_ARM_LPAE      = 1 << 20,
  ARM_HWCAP_ARM_EVTSTRM   = 1 << 21,
};

enum {
  ARM_HWCAP2_ARM_AES      = 1 << 0,
  ARM_HWCAP2_ARM_PMULL    = 1 << 1,
  ARM_HWCAP2_ARM_SHA1     = 1 << 2,
  ARM_HWCAP2_ARM_SHA2     = 1 << 3,
  ARM_HWCAP2_ARM_CRC32    = 1 << 4,
};

static uint32_t get_elf_hwcap(void)
{
  ARMCPU *cpu = ARM_CPU(thread_cpu);
  uint32_t hwcaps = 0;

  hwcaps |= ARM_HWCAP_ARM_SWP;
  hwcaps |= ARM_HWCAP_ARM_HALF;
  hwcaps |= ARM_HWCAP_ARM_THUMB;
  hwcaps |= ARM_HWCAP_ARM_FAST_MULT;

  /* probe for the extra features */
  /* EDSP is in v5TE and above */
```

```
  GET_FEATURE(ARM_FEATURE_V5, ARM_HWCAP_ARM_EDSP);
  GET_FEATURE(ARM_FEATURE_IWMMXT, ARM_HWCAP_ARM_IWMMXT);
  GET_FEATURE(ARM_FEATURE_THUMB2EE, ARM_HWCAP_ARM_THUMBEE);
  GET_FEATURE(ARM_FEATURE_NEON, ARM_HWCAP_ARM_NEON);
  GET_FEATURE(ARM_FEATURE_V6K, ARM_HWCAP_ARM_TLS);
  GET_FEATURE(ARM_FEATURE_LPAE,
 ARM_HWCAP_ARM_LPAE);
  GET_FEATURE_ID(aa32_arm_div, ARM_HWCAP_ARM_IDIVA);
  GET_FEATURE_ID(aa32_thumb_div, ARM_HWCAP_ARM_IDIVT);
  GET_FEATURE_ID(aa32_vfp, ARM_HWCAP_ARM_VFP);

  if (cpu_isar_feature(aa32_fpsp_v3, cpu) ||
      cpu_isar_feature(aa32_fpdp_v3, cpu)) {
      hwcaps |= ARM_HWCAP_ARM_VFPv3;
      if (cpu_isar_feature(aa32_simd_r32, cpu)) {
          hwcaps |= ARM_HWCAP_ARM_VFPD32;
      } else {
          hwcaps |= ARM_HWCAP_ARM_VFPv3D16;
      }
  }
  GET_FEATURE_ID(aa32_simdfmac, ARM_HWCAP_ARM_VFPv4);

  return hwcaps;
}

static uint32_t get_elf_hwcap2(void)
{
  ARMCPU *cpu = ARM_CPU(thread_cpu);
  uint32_t hwcaps = 0;

  GET_FEATURE_ID(aa32_aes, ARM_HWCAP2_ARM_AES);
  GET_FEATURE_ID(aa32_pmull, ARM_HWCAP2_ARM_PMULL);
  GET_FEATURE_ID(aa32_sha1, ARM_HWCAP2_ARM_SHA1);
  GET_FEATURE_ID(aa32_sha2, ARM_HWCAP2_ARM_SHA2);
  GET_FEATURE_ID(aa32_crc32, ARM_HWCAP2_ARM_CRC32);
  return hwcaps;
}

#undef GET_FEATURE
#undef
 GET_FEATURE_ID

#endif /* TARGET_ARCH_ELF_H */
/*
*  arm cpu init and loop
*
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*
```

```
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*/

#ifndef TARGET_ARCH_CPU_H
#define TARGET_ARCH_CPU_H

#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "any"

static inline void target_cpu_init(CPUARMState *env,
      struct target_pt_regs *regs)
{
  int i;

  cpsr_write(env,
 regs->uregs[16], CPSR_USER | CPSR_EXEC,
           CPSRWriteByInstr);
  for (i = 0; i < 16; i++) {
     env->regs[i] = regs->uregs[i];
  }
}

static inline void target_cpu_loop(CPUARMState *env)
{
  int trapnr, si_signo, si_code;
  CPUState *cs = env_cpu(env);

  for (;;) {
     cpu_exec_start(cs);
     trapnr = cpu_exec(cs);
     cpu_exec_end(cs);
     process_queued_cpu_work(cs);
     switch (trapnr) {
     case EXCP_UDEF:
     case EXCP_NOCP:
```

```
    case EXCP_INVSTATE:
        /*
         * See arm/arm/undefined.c undefinedinstruction();
         *
         * A number of details aren't emulated (they likely don't matter):
         * o Misaligned PC generates ILL_ILLADR (these can't come from qemu)
         * o Thumb-2 instructions generate ILLADR
         * o Both modes implement coprocessor instructions, which we don't
         *   do here. FreeBSD just implements them for the VFP coprocessor
         *   and
special kernel breakpoints, trace points, dtrace, etc.
         */
        force_sig_fault(TARGET_SIGILL, TARGET_ILL_ILLOPC, env->regs[15]);
        break;
    case EXCP_SWI:
        {
            int ret;
            abi_ulong params = get_sp_from_cpustate(env);
            int32_t syscall_nr = env->regs[7];
            int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

            /* See arm/arm/syscall.c cpu_fetch_syscall_args() */
            if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
                syscall_nr = env->regs[0];
                arg1 = env->regs[1];
                arg2 = env->regs[2];
                arg3 = env->regs[3];
                get_user_s32(arg4, params);
                params += sizeof(int32_t);
                get_user_s32(arg5, params);
                params += sizeof(int32_t);
                get_user_s32(arg6, params);
                params += sizeof(int32_t);
                 get_user_s32(arg7, params);
                arg8 = 0;
            } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
                syscall_nr = env->regs[0];
                arg1 = env->regs[2];
                arg2 = env->regs[3];
                get_user_s32(arg3, params);
                params += sizeof(int32_t);
                get_user_s32(arg4, params);
                params += sizeof(int32_t);
                get_user_s32(arg5, params);
                params += sizeof(int32_t);
                get_user_s32(arg6, params);
                arg7 = 0;
                arg8 = 0;
```

```
            } else {
                arg1 = env->regs[0];
                arg2 = env->regs[1];
                arg3 = env->regs[2];
                arg4 = env->regs[3];
                get_user_s32(arg5, params);
                params += sizeof(int32_t);
                get_user_s32(arg6,
params);
                params += sizeof(int32_t);
                get_user_s32(arg7, params);
                params += sizeof(int32_t);
                get_user_s32(arg8, params);
            }
            ret = do_freebsd_syscall(env, syscall_nr, arg1, arg2, arg3,
                                     arg4, arg5, arg6, arg7, arg8);
            /*
             * Compare to arm/arm/vm_machdep.c
             * cpu_set_syscall_retval()
             */
            if (-TARGET_EJUSTRETURN == ret) {
                /*
                 * Returning from a successful sigreturn syscall.
                 * Avoid clobbering register state.
                 */
                break;
            }
            if (-TARGET_ERESTART == ret) {
                env->regs[15] -= env->thumb ? 2 : 4;
                break;
            }
            if ((unsigned int)ret >= (unsigned int)(-515)) {

  ret = -ret;
                cpsr_write(env, CPSR_C, CPSR_C, CPSRWriteByInstr);
                env->regs[0] = ret;
            } else {
                cpsr_write(env, 0, CPSR_C, CPSRWriteByInstr);
                env->regs[0] = ret; /* XXX need to handle lseek()? */
                /* env->regs[1] = 0; */
            }
        }
        break;
    case EXCP_INTERRUPT:
        /* just indicate that signals should be handled asap */
        break;
    case EXCP_PREFETCH_ABORT:
    case EXCP_DATA_ABORT:
```

```
    /*
     * See arm/arm/trap-v6.c prefetch_abort_handler() and
     * data_abort_handler()
     *
     * However, FreeBSD maps these to a generic value and then uses that
     * to maybe fault in pages in vm/vm_fault.c:vm_fault_trap(). I
     * believe that the indirection maps the same as Linux, but haven't
     * chased down every single possible indirection.

   */

    /* For user-only we don't set TTBCR_EAE, so look at the FSR. */
    switch (env->exception.fsr & 0x1f) {
    case 0x1: /* Alignment */
        si_signo = TARGET_SIGBUS;
        si_code = TARGET_BUS_ADRALN;
        break;
    case 0x3: /* Access flag fault, level 1 */
    case 0x6: /* Access flag fault, level 2 */
    case 0x9: /* Domain fault, level 1 */
    case 0xb: /* Domain fault, level 2 */
    case 0xd: /* Permission fault, level 1 */
    case 0xf: /* Permission fault, level 2 */
        si_signo = TARGET_SIGSEGV;
        si_code = TARGET_SEGV_ACCERR;
        break;
    case 0x5: /* Translation fault, level 1 */
    case 0x7: /* Translation fault, level 2 */
        si_signo = TARGET_SIGSEGV;
        si_code = TARGET_SEGV_MAPERR;
        break;
    default:
        g_assert_not_reached();

    }
    force_sig_fault(si_signo, si_code, env->exception.vaddress);
    break;
case EXCP_DEBUG:
case EXCP_BKPT:
    force_sig_fault(TARGET_SIGTRAP, TARGET_TRAP_BRKPT, env->regs[15]);
    break;
case EXCP_YIELD:
    /* nothing to do here for user-mode, just resume guest code */
    break;
case EXCP_ATOMIC:
    cpu_exec_step_atomic(cs);
    break;
default:
```

```
            fprintf(stderr, "qemu: unhandled CPU exception 0x%x - aborting\n",
                    trapnr);
            cpu_dump_state(cs, stderr, 0);
            abort();
        } /* switch() */
        process_pending_signals(env);
    } /* for (;;) */
}

static inline void target_cpu_clone_regs(CPUARMState *env, target_ulong newsp)
{
    if (newsp) {
        env->regs[13] = newsp;
    }
    env->regs[0] = 0;
}

static inline void target_cpu_reset(CPUArchState *env)
{
}

#endif /* TARGET_ARCH_CPU_H */
/*
* Intel x86_64 specific prototypes for bsd-user
*
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*/

#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

/* target_arch_cpu.c */
void bsd_x86_64_write_dt(void *ptr, unsigned long addr, unsigned long limit,
            int flags);
void bsd_x86_64_set_idt(int n, unsigned int dpl);
```

```
void bsd_x86_64_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* TARGET_ARCH_H */
/*
*  openbsd ELF definitions
*
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*/

#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
```

```
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
    ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                          abi_ulong stringp,
                                          struct elfhdr *exec,
                                          abi_ulong load_addr,
                                           abi_ulong load_bias,
                                          abi_ulong interp_load_addr,
                                          struct image_info *info)
{
    abi_ulong sp;
    int size;
    abi_ulong u_platform;
    const char *k_platform;
    const int n = sizeof(elf_addr_t);

    sp = p;
    u_platform = 0;
    k_platform = ELF_PLATFORM;
    if (k_platform) {
       size_t len = strlen(k_platform) + 1;
       sp -= (len + n - 1) & ~(n - 1);
       u_platform = sp;
       /* FIXME - check return value of memcpy_to_target() for failure */
       memcpy_to_target(sp, k_platform, len);
    }
    /*
```

```
         * Force 16 byte _final_ alignment here for generality.
         */
        sp = sp & ~(abi_ulong)15;
        size = (DLINFO_ITEMS + 1) * 2;
        if (k_platform) {
            size += 2;
        }
#ifdef DLINFO_ARCH_ITEMS
        size += DLINFO_ARCH_ITEMS * 2;
#endif
         size += envc + argc + 2;
        size += 1;                      /* argc itself */
        size *= n;
        if (size & 15) {
            sp -= 16 - (size & 15);
        }

        /*
         * OpenBSD defines elf_addr_t as Elf32_Off / Elf64_Off
         */
#define NEW_AUX_ENT(id, val) do {               \
            sp -= n; put_user_ual(val, sp);     \
            sp -= n; put_user_ual(id, sp);      \
          } while (0)

        NEW_AUX_ENT(AT_NULL, 0);

        /* There must be exactly DLINFO_ITEMS entries here.  */
        NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
        NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
        NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
        NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
        NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
        NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
        NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
        NEW_AUX_ENT(AT_UID,
    (abi_ulong)getuid());
        NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
        NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
        NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
        NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
        NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
        if (k_platform) {
            NEW_AUX_ENT(AT_PLATFORM, u_platform);
        }
#ifdef ARCH_DLINFO
        /*
         * ARCH_DLINFO must come last so platform specific code can enforce
```

```
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* TARGET_OS_ELF_H */
```

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Version 3, 29 June 2007

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#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/arm/include/reg.h */
typedef struct target_reg {
  uint32_t       r[13];
  uint32_t       r_sp;
  uint32_t       r_lr;
  uint32_t       r_pc;
  uint32_t       r_cpsr;
} target_reg_t;

typedef
 struct target_fp_reg {
  uint32_t       fp_exponent;
  uint32_t       fp_mantissa_hi;
  u_int32_t       fp_mantissa_lo;
} target_fp_reg_t;

typedef struct target_fpreg {
  uint32_t       fpr_fpsr;
  target_fp_reg_t fpr[8];
} target_fpreg_t;

#define tswapreg(ptr)   tswapal(ptr)

static inline void target_copy_regs(target_reg_t *regs, const CPUARMState *env)
{
  int i;

  for (i = 0; i < 13; i++) {
      regs->r[i] = tswapreg(env->regs[i + 1]);
  }
  regs->r_sp = tswapreg(env->regs[13]);
  regs->r_lr = tswapreg(env->regs[14]);
  regs->r_pc = tswapreg(env->regs[15]);
  regs->r_cpsr = tswapreg(cpsr_read((CPUARMState *)env));
}
```

```
#undef tswapreg

#endif /* TARGET_ARCH_REG_H */
#ifndef TARGET_OS_SIGNAL_H
#define TARGET_OS_SIGNAL_H

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

abi_long setup_sigframe_arch(CPUArchState *env, abi_ulong frame_addr,
                             struct target_sigframe *frame, int flags);

/* Compare to sys/signal.h */
#define TARGET_SIGHUP  1       /* hangup */
#define TARGET_SIGINT  2       /* interrupt */
#define TARGET_SIGQUIT 3       /* quit */
#define TARGET_SIGILL  4       /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5       /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6       /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7       /* EMT instruction */
#define TARGET_SIGFPE  8       /* floating point exception */
#define TARGET_SIGKILL 9       /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10      /* bus error */
#define TARGET_SIGSEGV 11      /* segmentation violation */
#define TARGET_SIGSYS  12      /*
 bad argument to system call */
#define TARGET_SIGPIPE 13      /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for output if(tp->t_local&LTOSTOP)*/
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF 27      /*
 profiling time alarm */
#define TARGET_SIGWINCH 28     /* window size changes */
#define TARGET_SIGINFO  29     /* information request */
#define TARGET_SIGUSR1 30      /* user defined signal 1 */
#define TARGET_SIGUSR2 31      /* user defined signal 2 */
```

```
#define TARGET_SIGTHR 32       /* reserved by thread library */
#define TARGET_SIGLWP SIGTHR   /* compatibility */
#define TARGET_SIGLIBRT 33     /* reserved by the real-time library */
#define TARGET_SIGRTMIN 65
#define TARGET_SIGRTMAX 126

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL      ((abi_long)0)   /* default signal handling */
#define TARGET_SIG_IGN      ((abi_long)1)   /* ignore signal */
#define TARGET_SIG_ERR      ((abi_long)-1)  /* error return from signal */

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004
  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER   0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK        1   /* block specified signal set */
#define TARGET_SIG_UNBLOCK      2   /* unblock specified signal set */
#define TARGET_SIG_SETMASK      3   /* set specified signal set */

#define TARGET_BADSIG           SIG_ERR

/*
* sigaltstack control
*/
#define TARGET_SS_ONSTACK 0x0001  /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004  /* disable taking signals on alternate stack*/

#endif /* TARGET_OS_SIGNAL_H */
  NOTE! This copyright does *not* cover the so-called "standalone"
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*/

#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to amd64/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)          /* max text size */
#define TARGET_DFLDSIZ  (32 * GiB)           /* initial data
 size limit */
#define TARGET_MAXDSIZ  (32 * GiB)           /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)           /* initial stack size limit */
#define TARGET_MAXSSIZ  (512 * MiB)          /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)          /* amount to grow stack */
```

```
#define TARGET_VM_MAXUSER_ADDRESS   (0x00007fffff000000UL)

#define TARGET_USRSTACK (TARGET_VM_MAXUSER_ADDRESS - TARGET_PAGE_SIZE)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
  return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
  state->regs[R_EDX] = retval2;
}

#endif /* TARGET_ARCH_VMPARAM_H */
```

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```
/*
*  BSD conversion extern declarations
*
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*/

#ifndef QEMU_BSD_H
#define QEMU_BSD_H

#include <sys/types.h>
#include <sys/resource.h>
#include <sys/ipc.h>
#include <sys/msg.h>
#include <sys/resource.h>
#include <sys/sem.h>
#include <sys/shm.h>
```

```
#include <sys/socket.h>
#include <sys/un.h>
#include <sys/uuid.h>
#include
 <sys/wait.h>
#include <netinet/in.h>

/* bsd-proc.c */
int target_to_host_resource(int code);
rlim_t target_to_host_rlim(abi_llong target_rlim);
abi_llong host_to_target_rlim(rlim_t rlim);
abi_long host_to_target_rusage(abi_ulong target_addr,
      const struct rusage *rusage);
abi_long host_to_target_wrusage(abi_ulong target_addr,
      const struct __wrusage *wrusage);
int host_to_target_waitstatus(int status);
void h2g_rusage(const struct rusage *rusage,
      struct target_freebsd_rusage *target_rusage);

/* bsd-mem.c */
void target_to_host_ipc_perm__locked(struct ipc_perm *host_ip,
      struct target_ipc_perm *target_ip);
void host_to_target_ipc_perm__locked(struct target_ipc_perm *target_ip,
      struct ipc_perm *host_ip);
abi_long target_to_host_shmid_ds(struct shmid_ds *host_sd,
      abi_ulong target_addr);
abi_long host_to_target_shmid_ds(abi_ulong target_addr,
      struct shmid_ds *host_sd);

#endif /* QEMU_BSD_H */
/*
*  OpenBSD thread dependent code and definitions
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
```

```
#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"

#endif /* TARGET_OS_THREAD_H */
/*
* Intel x86_64  sigcode for bsd-user
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{

  return 0;
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/*
*  qemu bsd user mode definition
*
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```

```
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
#ifndef QEMU_H
#define QEMU_H

#include "cpu.h"
#include "qemu/units.h"
#include "exec/cpu_ldst.h"
#include "exec/exec-all.h"

#undef DEBUG_REMAP

#include "exec/user/abitypes.h"

extern char **environ;

#include "exec/user/thunk.h"
#include "target_arch.h"
#include "syscall_defs.h"
#include "target_syscall.h"
#include
 "target_os_vmparam.h"
#include "target_os_signal.h"
#include "target.h"
#include "exec/gdbstub.h"
#include "qemu/clang-tsa.h"

#include "qemu-os.h"
/*
* This struct is used to hold certain information about the image.  Basically,
* it replicates in user space what would be certain task_struct fields in the
* kernel
*/
struct image_info {
   abi_ulong load_bias;
   abi_ulong load_addr;
   abi_ulong start_code;
   abi_ulong end_code;
   abi_ulong start_data;
   abi_ulong end_data;
   abi_ulong brk;
   abi_ulong rss;
   abi_ulong start_stack;
   abi_ulong entry;
   abi_ulong code_offset;
   abi_ulong data_offset;
```

```
  abi_ulong arg_start;
  abi_ulong arg_end;
  uint32_t  elf_flags;
};

struct emulated_sigtable {
  int pending; /* true if signal is pending */
  target_siginfo_t info;
};

/*
* NOTE: we force a big alignment so that the stack stored after is aligned too
*/
typedef struct TaskState {
  pid_t ts_tid;     /* tid (or pid) of this task
 */

  struct TaskState *next;
  struct bsd_binprm *bprm;
  struct image_info *info;

  struct emulated_sigtable sync_signal;
  /*
   * TODO: Since we block all signals while returning to the main CPU
   * loop, this needn't be an array
   */
  struct emulated_sigtable sigtab[TARGET_NSIG];
  /*
   * Nonzero if process_pending_signals() needs to do something (either
   * handle a pending signal or unblock signals).
   * This flag is written from a signal handler so should be accessed via
   * the qatomic_read() and qatomic_set() functions. (It is not accessed
   * from multiple threads.)
   */
  int signal_pending;
  /* True if we're leaving a sigsuspend and sigsuspend_mask is valid. */
  bool in_sigsuspend;
  /*
   * This thread's signal mask, as requested by the guest program.
   * The actual signal mask of this thread may differ:
   *  + we don't let SIGSEGV and SIGBUS be blocked while running guest code
   *  + sometimes we block all
 signals to avoid races
   */
  sigset_t signal_mask;
  /*
   * The signal mask imposed by a guest sigsuspend syscall, if we are
   * currently in the middle of such a syscall
```

```
    */
    sigset_t sigsuspend_mask;

    /* This thread's sigaltstack, if it has one */
    struct target_sigaltstack sigaltstack_used;
} __attribute__((aligned(16))) TaskState;

void stop_all_tasks(void);
extern const char *interp_prefix;
extern const char *qemu_uname_release;

/*
* TARGET_ARG_MAX defines the number of bytes allocated for arguments
* and envelope for the new program. 256k should suffice for a reasonable
* maximum env+arg in 32-bit environments, bump it up to 512k for !ILP32
* platforms.
*/
#if TARGET_ABI_BITS > 32
#define TARGET_ARG_MAX (512 * KiB)
#else
#define TARGET_ARG_MAX (256 * KiB)
#endif
#define MAX_ARG_PAGES (TARGET_ARG_MAX / TARGET_PAGE_SIZE)

/*
* This structure is used to hold the arguments that are
* used when loading binaries.
*/
struct bsd_binprm {
        char
 buf[128];
        void *page[MAX_ARG_PAGES];
        abi_ulong p;
        abi_ulong stringp;
        int fd;
        int e_uid, e_gid;
        int argc, envc;
        char **argv;
        char **envp;
        char *filename;         /* (Given) Name of binary */
        char *fullpath;         /* Full path of binary */
        int (*core_dump)(int, CPUArchState *);
};

void do_init_thread(struct target_pt_regs *regs, struct image_info *infop);
abi_ulong loader_build_argptr(int envc, int argc, abi_ulong sp,
                              abi_ulong stringp);
int loader_exec(const char *filename, char **argv, char **envp,
```

```
                struct target_pt_regs *regs, struct image_info *infop,
                struct bsd_binprm *bprm);

int load_elf_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int load_flt_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int is_target_elf_binary(int
 fd);

abi_long memcpy_to_target(abi_ulong dest, const void *src,
                          unsigned long len);
void target_set_brk(abi_ulong new_brk);
abi_long do_brk(abi_ulong new_brk);
void syscall_init(void);
abi_long do_freebsd_syscall(void *cpu_env, int num, abi_long arg1,
                            abi_long arg2, abi_long arg3, abi_long arg4,
                            abi_long arg5, abi_long arg6, abi_long arg7,
                            abi_long arg8);
abi_long do_netbsd_syscall(void *cpu_env, int num, abi_long arg1,
                           abi_long arg2, abi_long arg3, abi_long arg4,
                           abi_long arg5, abi_long arg6);
abi_long do_openbsd_syscall(void *cpu_env, int num, abi_long arg1,
                            abi_long arg2, abi_long arg3, abi_long arg4,
                            abi_long arg5, abi_long arg6);
void gemu_log(const char *fmt, ...) G_GNUC_PRINTF(1, 2);
extern __thread CPUState *thread_cpu;
void cpu_loop(CPUArchState *env);
char
 *target_strerror(int err);
int get_osversion(void);
void fork_start(void);
void fork_end(int child);

#include "qemu/log.h"

/* strace.c */
struct syscallname {
  int nr;
  const char *name;
  const char *format;
  void (*call)(const struct syscallname *,
               abi_long, abi_long, abi_long,
               abi_long, abi_long, abi_long);
  void (*result)(const struct syscallname *, abi_long);
};

void
```

```
print_freebsd_syscall(int num,
                      abi_long arg1, abi_long arg2, abi_long arg3,
                      abi_long arg4, abi_long arg5, abi_long arg6);
void print_freebsd_syscall_ret(int num, abi_long ret);
void
print_netbsd_syscall(int num,
                     abi_long arg1, abi_long arg2, abi_long arg3,
                     abi_long arg4, abi_long arg5, abi_long arg6);
void print_netbsd_syscall_ret(int num, abi_long ret);
void
print_openbsd_syscall(int num,
                      abi_long arg1, abi_long arg2, abi_long arg3,

 abi_long arg4, abi_long arg5, abi_long arg6);
void print_openbsd_syscall_ret(int num, abi_long ret);
/**
* print_taken_signal:
* @target_signum: target signal being taken
* @tinfo: target_siginfo_t which will be passed to the guest for the signal
*
* Print strace output indicating that this signal is being taken by the guest,
* in a format similar to:
* --- SIGSEGV {si_signo=SIGSEGV, si_code=SI_KERNEL, si_addr=0} ---
*/
void print_taken_signal(int target_signum, const target_siginfo_t *tinfo);
extern int do_strace;

/* mmap.c */
int target_mprotect(abi_ulong start, abi_ulong len, int prot);
abi_long target_mmap(abi_ulong start, abi_ulong len, int prot,
                     int flags, int fd, off_t offset);
int target_munmap(abi_ulong start, abi_ulong len);
abi_long target_mremap(abi_ulong old_addr, abi_ulong old_size,
                       abi_ulong new_size, unsigned long flags,
                       abi_ulong new_addr);
int target_msync(abi_ulong start, abi_ulong len, int flags);
extern
 abi_ulong mmap_next_start;
abi_ulong mmap_find_vma(abi_ulong start, abi_ulong size);
void mmap_reserve(abi_ulong start, abi_ulong size);
void TSA_NO_TSA mmap_fork_start(void);
void TSA_NO_TSA mmap_fork_end(int child);

/* main.c */
extern char qemu_proc_pathname[];
extern unsigned long target_maxtsiz;
extern unsigned long target_dfldsiz;
extern unsigned long target_maxdsiz;
```

```
extern unsigned long target_dflssiz;
extern unsigned long target_maxssiz;
extern unsigned long target_sgrowsiz;

/* os-syscall.c */
abi_long get_errno(abi_long ret);
bool is_error(abi_long ret);
int host_to_target_errno(int err);

/* os-proc.c */
abi_long freebsd_exec_common(abi_ulong path_or_fd, abi_ulong guest_argp,
      abi_ulong guest_envp, int do_fexec);
abi_long do_freebsd_procctl(void *cpu_env, int idtype, abi_ulong arg2,
      abi_ulong arg3, abi_ulong arg4, abi_ulong arg5, abi_ulong arg6);

/* os-sys.c */
abi_long do_freebsd_sysctl(CPUArchState *env, abi_ulong namep, int32_t namelen,

    abi_ulong oldp, abi_ulong oldlenp, abi_ulong newp, abi_ulong newlen);
abi_long do_freebsd_sysctlbyname(CPUArchState *env, abi_ulong namep,
      int32_t namelen, abi_ulong oldp, abi_ulong oldlenp, abi_ulong newp,
      abi_ulong newlen);
abi_long do_freebsd_sysarch(void *cpu_env, abi_long arg1, abi_long arg2);

/* user access */

#define VERIFY_READ  PAGE_READ
#define VERIFY_WRITE (PAGE_READ | PAGE_WRITE)

static inline bool access_ok(int type, abi_ulong addr, abi_ulong size)
{
  return page_check_range((target_ulong)addr, size, type);
}

/*
* NOTE __get_user and __put_user use host pointers and don't check access.
*
* These are usually used to access struct data members once the struct has been
* locked - usually with lock_user_struct().
*/

/*
* Tricky points:
* - Use __builtin_choose_expr to avoid type promotion from ?:,
* - Invalid sizes result in a compile time error stemming from
*   the fact that abort has no parameters.
* - It's easier to use the endian-specific
```

```
 unaligned load/store
*   functions than host-endian unaligned load/store plus tswapN.
* - The pragmas are necessary only to silence a clang false-positive
*   warning: see https://bugs.llvm.org/show_bug.cgi?id=39113 .
* - gcc has bugs in its _Pragma() support in some versions, eg
*   https://gcc.gnu.org/bugzilla/show_bug.cgi?id=83256 -- so we only
*   include the warning-suppression pragmas for clang
*/
#if defined(__clang__) && __has_warning("-Waddress-of-packed-member")
#define PRAGMA_DISABLE_PACKED_WARNING                           \
  _Pragma("GCC diagnostic push");                               \
  _Pragma("GCC diagnostic ignored \"-Waddress-of-packed-member\"")

#define PRAGMA_REENABLE_PACKED_WARNING          \
  _Pragma("GCC diagnostic pop")

#else
#define PRAGMA_DISABLE_PACKED_WARNING
#define PRAGMA_REENABLE_PACKED_WARNING
#endif

#define __put_user_e(x, hptr, e)                                \
  do {                                                          \
                                \
    PRAGMA_DISABLE_PACKED_WARNING;                              \
    (__builtin_choose_expr(sizeof(*(hptr)) == 1, stb_p,         \
    __builtin_choose_expr(sizeof(*(hptr)) == 2, stw_##e##_p,    \
    __builtin_choose_expr(sizeof(*(hptr)) == 4, stl_##e##_p,    \
    __builtin_choose_expr(sizeof(*(hptr)) == 8, stq_##e##_p, abort))))  \
       ((hptr), (x)), (void)0);                                 \
    PRAGMA_REENABLE_PACKED_WARNING;                             \
  } while (0)

#define __get_user_e(x, hptr, e)                                \
  do {                                                  \
    PRAGMA_DISABLE_PACKED_WARNING;                              \
    ((x) = (typeof(*hptr))(                                     \
    __builtin_choose_expr(sizeof(*(hptr)) == 1, ldub_p,         \

 __builtin_choose_expr(sizeof(*(hptr)) == 2, lduw_##e##_p,      \
    __builtin_choose_expr(sizeof(*(hptr)) == 4, ldl_##e##_p,    \
    __builtin_choose_expr(sizeof(*(hptr)) == 8, ldq_##e##_p, abort))))  \
       (hptr)), (void)0);                                       \
    PRAGMA_REENABLE_PACKED_WARNING;                             \
  } while (0)



#if TARGET_BIG_ENDIAN
```

```
# define __put_user(x, hptr)  __put_user_e(x, hptr, be)
# define __get_user(x, hptr)  __get_user_e(x, hptr, be)
#else
# define __put_user(x, hptr)  __put_user_e(x, hptr, le)
# define __get_user(x, hptr)  __get_user_e(x, hptr, le)
#endif

/*
* put_user()/get_user() take a guest address and check access
*
* These are usually used to access an atomic data type, such as an int, that
* has been passed by address.  These internally perform locking and unlocking
* on the data type.
*/
#define put_user(x, gaddr, target_type)                         \
({                                                              \
  abi_ulong __gaddr = (gaddr);                                  \
  target_type *__hptr;                                          \
  abi_long __ret = 0;                                           \
  __hptr = lock_user(VERIFY_WRITE, __gaddr, sizeof(target_type), 0);  \
  if (__hptr) {                                                 \
      __put_user((x), __hptr);                                  \
      unlock_user(__hptr, __gaddr, sizeof(target_type));        \
  } else                                                        \
      __ret = -TARGET_EFAULT;                                   \
  __ret;                                                        \
})

#define get_user(x, gaddr, target_type)                         \
({                                                              \
  abi_ulong __gaddr = (gaddr);                                  \
                                                                \
  target_type *__hptr;                                          \
  abi_long __ret = 0;                                           \
  __hptr = lock_user(VERIFY_READ, __gaddr, sizeof(target_type), 1);   \
  if (__hptr) {                                                 \
      __get_user((x), __hptr);                                  \
      unlock_user(__hptr, __gaddr, 0);                          \
  } else {                                                      \
      (x) = 0;                                                  \
      __ret = -TARGET_EFAULT;                                   \
  }                                                             \
  __ret;                                                        \
})

#define put_user_ual(x, gaddr) put_user((x), (gaddr), abi_ulong)
#define put_user_sal(x, gaddr) put_user((x), (gaddr), abi_long)
```

```
#define put_user_u64(x, gaddr)
 put_user((x), (gaddr), uint64_t)
#define put_user_s64(x, gaddr) put_user((x), (gaddr), int64_t)
#define put_user_u32(x, gaddr) put_user((x), (gaddr), uint32_t)
#define put_user_s32(x, gaddr) put_user((x), (gaddr), int32_t)
#define put_user_u16(x, gaddr) put_user((x), (gaddr), uint16_t)
#define put_user_s16(x, gaddr) put_user((x), (gaddr), int16_t)
#define put_user_u8(x, gaddr)  put_user((x), (gaddr), uint8_t)
#define put_user_s8(x, gaddr)  put_user((x), (gaddr), int8_t)

#define get_user_ual(x, gaddr) get_user((x), (gaddr), abi_ulong)
#define get_user_sal(x, gaddr) get_user((x), (gaddr), abi_long)
#define get_user_u64(x, gaddr) get_user((x), (gaddr), uint64_t)
#define get_user_s64(x, gaddr) get_user((x), (gaddr), int64_t)
#define get_user_u32(x, gaddr) get_user((x), (gaddr), uint32_t)
#define get_user_s32(x, gaddr) get_user((x), (gaddr), int32_t)
#define get_user_u16(x, gaddr) get_user((x), (gaddr), uint16_t)
#define get_user_s16(x, gaddr) get_user((x), (gaddr), int16_t)
#define get_user_u8(x,
 gaddr)  get_user((x), (gaddr), uint8_t)
#define get_user_s8(x, gaddr)  get_user((x), (gaddr), int8_t)

/*
* copy_from_user() and copy_to_user() are usually used to copy data
* buffers between the target and host.  These internally perform
* locking/unlocking of the memory.
*/
abi_long copy_from_user(void *hptr, abi_ulong gaddr, size_t len);
abi_long copy_to_user(abi_ulong gaddr, void *hptr, size_t len);

/*
* Functions for accessing guest memory.  The tget and tput functions
* read/write single values, byteswapping as necessary.  The lock_user function
* gets a pointer to a contiguous area of guest memory, but does not perform
* any byteswapping.  lock_user may return either a pointer to the guest
* memory, or a temporary buffer.
*/

/*
* Lock an area of guest memory into the host.  If copy is true then the
* host area will have the same contents as the guest.
*/
static inline void *lock_user(int type, abi_ulong guest_addr, long len,

    int copy)
{
  if (!access_ok(type, guest_addr, len)) {
      return NULL;
```

```
  }
#ifdef DEBUG_REMAP
  {
    void *addr;
    addr = g_malloc(len);
    if (copy) {
      memcpy(addr, g2h_untagged(guest_addr), len);
    } else {
      memset(addr, 0, len);
    }
    return addr;
  }
#else
  return g2h_untagged(guest_addr);
#endif
}

/*
* Unlock an area of guest memory.  The first LEN bytes must be flushed back to
* guest memory. host_ptr = NULL is explicitly allowed and does nothing.
*/
static inline void unlock_user(void *host_ptr, abi_ulong guest_addr,
                               long len)
{

#ifdef DEBUG_REMAP
  if (!host_ptr) {
    return;
  }
  if (host_ptr == g2h_untagged(guest_addr)) {
    return;
  }
  if (len > 0) {
    memcpy(g2h_untagged(guest_addr), host_ptr, len);
  }
  g_free(host_ptr);
#endif
}

/*
* Return the length of a string in target memory or -TARGET_EFAULT if access
* error.
*/
abi_long
 target_strlen(abi_ulong gaddr);

/* Like lock_user but for null terminated strings.  */
static inline void *lock_user_string(abi_ulong guest_addr)
```

```
{
  abi_long len;
  len = target_strlen(guest_addr);
  if (len < 0) {
     return NULL;
  }
  return lock_user(VERIFY_READ, guest_addr, (long)(len + 1), 1);
}

/* Helper macros for locking/unlocking a target struct.  */
#define lock_user_struct(type, host_ptr, guest_addr, copy)      \
  (host_ptr = lock_user(type, guest_addr, sizeof(*host_ptr), copy))
#define unlock_user_struct(host_ptr, guest_addr, copy)          \
  unlock_user(host_ptr, guest_addr, (copy) ? sizeof(*host_ptr) : 0)

static inline uint64_t target_arg64(uint32_t word0, uint32_t word1)
{
#if TARGET_ABI_BITS == 32
#if TARGET_BIG_ENDIAN
  return ((uint64_t)word0 << 32) | word1;
#else
  return ((uint64_t)word1 << 32) | word0;
#endif
#else /* TARGET_ABI_BITS != 32 */
  return word0;
#endif /* TARGET_ABI_BITS != 32 */
}

#include <pthread.h>

#include "user/safe-syscall.h"

#endif
 /* QEMU_H */
/*
*  x86_64 cpu init and loop
*
*
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*
```

```
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*/

#ifndef TARGET_ARCH_CPU_H
#define TARGET_ARCH_CPU_H

#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu64"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
  uint64_t *gdt_table;

  env->cr[0] = CR0_PG_MASK | CR0_WP_MASK
| CR0_PE_MASK;
  env->hflags |= HF_PE_MASK | HF_CPL_MASK;
  if (env->features[FEAT_1_EDX] & CPUID_SSE) {
     env->cr[4] |= CR4_OSFXSR_MASK;
     env->hflags |= HF_OSFXSR_MASK;
  }

  /* enable 64 bit mode if possible */
  if (!(env->features[FEAT_8000_0001_EDX] & CPUID_EXT2_LM)) {
     fprintf(stderr, "The selected x86 CPU does not support 64 bit mode\n");
     exit(1);
  }
  env->cr[4] |= CR4_PAE_MASK;
  env->efer |= MSR_EFER_LMA | MSR_EFER_LME;
  env->hflags |= HF_LMA_MASK;

  /* flags setup : we activate the IRQs by default as in user mode */
  env->eflags |= IF_MASK;

  /* register setup */
  env->regs[R_EAX] = regs->rax;
  env->regs[R_EBX] = regs->rbx;
  env->regs[R_ECX] = regs->rcx;
  env->regs[R_EDX] = regs->rdx;
  env->regs[R_ESI] = regs->rsi;
  env->regs[R_EDI] = regs->rdi;
  env->regs[R_EBP] = regs->rbp;
  env->regs[R_ESP] = regs->rsp;
  env->eip = regs->rip;
```

```
/* interrupt setup */
env->idt.limit = 511;


env->idt.base = target_mmap(0, sizeof(uint64_t) * (env->idt.limit + 1),
   PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
bsd_x86_64_set_idt_base(env->idt.base);
bsd_x86_64_set_idt(0, 0);
bsd_x86_64_set_idt(1, 0);
bsd_x86_64_set_idt(2, 0);
bsd_x86_64_set_idt(3, 3);
bsd_x86_64_set_idt(4, 3);
bsd_x86_64_set_idt(5, 0);
bsd_x86_64_set_idt(6, 0);
bsd_x86_64_set_idt(7, 0);
bsd_x86_64_set_idt(8, 0);
bsd_x86_64_set_idt(9, 0);
bsd_x86_64_set_idt(10, 0);
bsd_x86_64_set_idt(11, 0);
bsd_x86_64_set_idt(12, 0);
bsd_x86_64_set_idt(13, 0);
bsd_x86_64_set_idt(14, 0);
bsd_x86_64_set_idt(15, 0);
bsd_x86_64_set_idt(16, 0);
bsd_x86_64_set_idt(17, 0);
bsd_x86_64_set_idt(18, 0);
bsd_x86_64_set_idt(19, 0);
bsd_x86_64_set_idt(0x80, 3);

/* segment setup */
env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
      PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
 env->gdt.limit = sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
gdt_table = g2h_untagged(env->gdt.base);

/* 64 bit code segment */
bsd_x86_64_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
      DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK | DESC_L_MASK
      | (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

bsd_x86_64_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
      DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
      (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

cpu_x86_load_seg(env, R_CS, __USER_CS);
cpu_x86_load_seg(env, R_SS, __USER_DS);
cpu_x86_load_seg(env, R_DS, 0);
cpu_x86_load_seg(env, R_ES, 0);
```

```
  cpu_x86_load_seg(env, R_FS, 0);
  cpu_x86_load_seg(env, R_GS, 0);
}

static inline void target_cpu_loop(CPUX86State *env)
{
  CPUState *cs = env_cpu(env);
  int trapnr;
  abi_ulong pc;
  /* target_siginfo_t info; */

  for (;;) {
     cpu_exec_start(cs);
     trapnr = cpu_exec(cs);
      cpu_exec_end(cs);
     process_queued_cpu_work(cs);

     switch (trapnr) {
     case EXCP_SYSCALL:
        /* syscall from syscall instruction */
        env->regs[R_EAX] = do_freebsd_syscall(env,
                                              env->regs[R_EAX],
                                              env->regs[R_EDI],
                                              env->regs[R_ESI],
                                              env->regs[R_EDX],
                                              env->regs[R_ECX],
                                              env->regs[8],
                                              env->regs[9], 0, 0);
        env->eip = env->exception_next_eip;
        if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
           env->regs[R_EAX] = -env->regs[R_EAX];
           env->eflags |= CC_C;
        } else {
           env->eflags &= ~CC_C;
        }

     break;

     case EXCP_INTERRUPT:
        /* just indicate that signals should be handled asap */
        break;

     case EXCP_ATOMIC:
        cpu_exec_step_atomic(cs);
        break;

     default:
        pc = env->segs[R_CS].base + env->eip;
```

```
            fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                    "aborting\n", (long)pc, trapnr);
            abort();
        }
        process_pending_signals(env);
    }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
{
    if (newsp) {
        env->regs[R_ESP] = newsp;
    }
    env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *env)
{
    cpu_reset(env_cpu(env));
}

#endif /* TARGET_ARCH_CPU_H */
/*
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* SUCH DAMAGE.
*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#ifndef ERRNO_DEFS_H
#define ERRNO_DEFS_H

#define
 TARGET_EPERM           1               /* Operation not permitted */
#define TARGET_ENOENT          2               /* No such file or directory */
#define TARGET_ESRCH           3               /* No such process */
#define TARGET_EINTR           4               /* Interrupted system call */
#define TARGET_EIO             5               /* Input/output error */
#define TARGET_ENXIO           6               /* Device not configured */
#define TARGET_E2BIG           7               /* Argument list too long */
#define TARGET_ENOEXEC         8               /* Exec format error */
#define TARGET_EBADF           9               /* Bad file descriptor */
#define TARGET_ECHILD          10              /* No child processes */
#define TARGET_EDEADLK         11              /* Resource deadlock avoided */
                                /* 11 was EAGAIN */
#define TARGET_ENOMEM          12              /* Cannot allocate memory */
#define TARGET_EACCES
        13              /* Permission denied */
#define TARGET_EFAULT          14              /* Bad address */
#define TARGET_ENOTBLK         15              /* Block device required */
#define TARGET_EBUSY           16              /* Device busy */
#define TARGET_EEXIST          17              /* File exists */
#define TARGET_EXDEV           18              /* Cross-device link */
#define TARGET_ENODEV          19              /* Operation not supported by device */
#define TARGET_ENOTDIR         20              /* Not a directory */
#define TARGET_EISDIR          21              /* Is a directory */
#define TARGET_EINVAL          22              /* Invalid argument */
#define TARGET_ENFILE          23              /* Too many open files in system */
#define TARGET_EMFILE          24              /* Too many open files */
#define TARGET_ENOTTY          25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY         26              /* Text file busy
 */
#define TARGET_EFBIG           27              /* File too large */
#define TARGET_ENOSPC          28              /* No space left on device */
#define TARGET_ESPIPE          29              /* Illegal seek */
#define TARGET_EROFS           30              /* Read-only file system */
#define TARGET_EMLINK          31              /* Too many links */
```

```
#define TARGET_EPIPE            32              /* Broken pipe */

/* math software */
#define TARGET_EDOM             33              /* Numerical argument out of domain */
#define TARGET_ERANGE           34              /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN           35              /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK      EAGAIN          /* Operation would block */
#define TARGET_EINPROGRESS      36              /* Operation now in progress */
#define TARGET_EALREADY 37              /* Operation already in progress */

/* ipc/network software -- argument
 errors */
#define TARGET_ENOTSOCK 38              /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ     39              /* Destination address required */
#define TARGET_EMSGSIZE 40              /* Message too long */
#define TARGET_EPROTOTYPE       41              /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT      42              /* Protocol not available */
#define TARGET_EPROTONOSUPPORT  43              /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT  44              /* Socket type not supported */
#define TARGET_EOPNOTSUPP       45              /* Operation not supported */
#define TARGET_EPFNOSUPPORT     46              /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT     47              /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE       48              /* Address already in use */
#define TARGET_EADDRNOTAVAIL    49              /* Can't assign requested address */

/* ipc/network software
 -- operational errors */
#define TARGET_ENETDOWN 50              /* Network is down */
#define TARGET_ENETUNREACH      51              /* Network is unreachable */
#define TARGET_ENETRESET        52              /* Network dropped connection on reset */
#define TARGET_ECONNABORTED     53              /* Software caused connection abort */
#define TARGET_ECONNRESET       54              /* Connection reset by peer */
#define TARGET_ENOBUFS          55              /* No buffer space available */
#define TARGET_EISCONN          56              /* Socket is already connected */
#define TARGET_ENOTCONN 57              /* Socket is not connected */
#define TARGET_ESHUTDOWN        58              /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS     59              /* Too many references: can't splice */
#define TARGET_ETIMEDOUT        60              /* Operation timed out */
#define TARGET_ECONNREFUSED     61              /* Connection refused */

#define TARGET_ELOOP
        62              /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG     63              /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN        64              /* Host is down */
```

```
#define TARGET_EHOSTUNREACH     65              /* No route to host */
#define TARGET_ENOTEMPTY        66              /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67              /* Too many processes */
#define TARGET_EUSERS           68              /* Too many users */
#define TARGET_EDQUOT           69              /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE           70              /* Stale NFS file handle */
#define TARGET_EREMOTE          71              /* Too many levels of remote in path */
#define TARGET_EBADRPC          72              /* RPC struct is bad */
#define TARGET_ERPCMISMATCH     73              /* RPC version wrong */
#define TARGET_EPROGUNAVAIL     74              /* RPC
 prog. not avail */
#define TARGET_EPROGMISMATCH    75              /* Program version wrong */
#define TARGET_EPROCUNAVAIL     76              /* Bad procedure for program */

#define TARGET_ENOLCK           77              /* No locks available */
#define TARGET_ENOSYS           78              /* Function not implemented */

#define TARGET_EFTYPE           79              /* Inappropriate file type or format */
#define TARGET_EAUTH            80              /* Authentication error */
#define TARGET_ENEEDAUTH        81              /* Need authenticator */
#define TARGET_EIPSEC           82              /* IPsec processing failure */
#define TARGET_ENOATTR          83              /* Attribute not found */
#define TARGET_EILSEQ           84              /* Illegal byte sequence */
#define TARGET_ENOMEDIUM        85              /* No medium found */
#define TARGET_EMEDIUMTYPE      86              /* Wrong Medium Type */
#define TARGET_EOVERFLOW        87              /* Conversion overflow
 */
#define TARGET_ECANCELED        88              /* Operation canceled */
#define TARGET_EIDRM            89              /* Identifier removed */
#define TARGET_ENOMSG           90              /* No message of desired type */
#define TARGET_ELAST            90              /* Must be equal largest errno */

/* Internal errors: */
#define TARGET_EJUSTRETURN      254             /* Just return without modifying regs */
#define TARGET_ERESTART         255             /* Restart syscall */

#include "special-errno.h"

_Static_assert(TARGET_ERESTART == QEMU_ERESTARTSYS,
           "TARGET_ERESTART and QEMU_ERESTARTSYS expected to match");

#endif /* ERRNO_DEFS_H */
```

List of OpenSBI Contributors (Alphabetically sorted)

==========

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/*
* Intel x86 specific prototypes for bsd-user

```
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*/

#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

/* target_arch_cpu.c */
void bsd_i386_write_dt(void *ptr, unsigned long addr, unsigned long limit,
        int flags);
void bsd_i386_set_idt(int n, unsigned int dpl);
void bsd_i386_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* TARGET_ARCH_H */
/*
*  i386 VM parameters definitions
*
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*/
```

```
#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to i386/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)          /* max text size */
#define TARGET_DFLDSIZ  (128 * MiB)          /* initial data size limit
 */
#define TARGET_MAXDSIZ  (512 * MiB)          /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)            /* initial stack size limit */
#define TARGET_MAXSSIZ  (64 * MiB)           /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)          /* amount to grow stack */

#define TARGET_RESERVED_VA 0xf7000000

#define TARGET_USRSTACK (0xbfc00000)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
  return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
  state->regs[R_EDX] = retval2;
}

#endif /* TARGET_ARCH_VMPARAM_H */
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+       x86emu_dump_xregs();
+ } else {
+       x86emu_dump_regs();
+ }
```

```
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+    if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
```

```
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+      case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+        break;
+    }
+    TRACE_AND_STEP();
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
```

```
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
```

```
        M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
        }
        M.x86.R_SI += inc;
```

```
      M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+          break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2598,16 +2612,21 @@

   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         val1 = fetch_data_byte(M.x86.R_SI);
         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
               cmp_byte(val1, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+
            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
         M.x86.R_DI += inc;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2644,8 +2663,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
         }
```

```
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /*
 move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
```

```
     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2795,6 +2826,8 @@
         store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
       }
       M.x86.R_DI += inc;
+      if (M.x86.intr & INTR_HALTED)
+         break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2817,11 +2850,16 @@
       inc = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+        else
+           M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
+        if (M.x86.intr & INTR_HALTED)
+
          break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
```

```
          M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        }
        M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
        inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
           cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF) == 0)
               break;
+          if (M.x86.intr & INTR_HALTED)
+              break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
           cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF))
               break;          /* zero flag set means equal */
```

```
+           if (M.x86.intr & INTR_HALTED)
+             break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
              val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
              val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
              break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
              val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
              val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
```

```
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+           else
+             M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
              break;          /* zero flag set means equal */
+           if (M.x86.intr & INTR_HALTED)
+             break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
  @@
 {
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
 }
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
```

```
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
```

```
+       M.x86.R_ECX -= 1;
+    else
+       M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
       M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
 }
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
```

```
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
     M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
            break;
        case 4:         /* jmp word ptr ... */
            destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            break;
        case 5:         /* jmp far ptr ... */
            destval = fetch_data_word(destoffset);
            destval2 = fetch_data_word(destoffset + 2);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
```

```
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                     M.x86.R_ECX : M.x86.R_CX);
-
         while (count--) {
          single_in(size);
          M.x86.R_DI += inc;
          }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                     M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
         single_out(size);
         M.x86.R_SI += inc;
         }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
         M.x86.R_ECX = 0;
        }
        M.x86.mode
```

```
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

/****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/****************************************************************************
```

```
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
       printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
```

```
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                             \
 if (DEBUG_TRACECALL())                           \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                     \
+# define RETURN_TRACE(u,v,w,x,s)                 \
 if (DEBUG_TRACECALLREGS())       \
  x86emu_dump_regs();                             \
 if (DEBUG_TRACECALL())                           \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                   \
+   if (DEBUG_TRACEJMPREGS()) \
+     x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+     printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
 #else
 # define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
 #endif

 #ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
```

```
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+// for REP(E|NE) Instructions, we need to decide whether it should be using
+// the 32bit ECX register or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
      SYSMODE_SEGOVR_SS     | \
      SYSMODE_PREFIX_DATA   | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR   | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                   mode;
   volatile int              intr;   /* mask of pending interrupts */
- int                   debug;
+   volatile int                  debug;
#ifdef DEBUG
- int                   check;
+   int                   check;
   u16                   saved_ip;
   u16                   saved_cs;
   int                   enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++
```

```
 include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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```
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*  sys/user.h definitions
*
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#ifndef TARGET_OS_USER_H
#define TARGET_OS_USER_H
```

```
/*
* from sys/priority.h
*/
struct target_priority {
  uint8_t     pri_class;      /* Scheduling class. */
  uint8_t     pri_level;      /* Normal priority level. */
  uint8_t     pri_native;
    /* Priority before propagation. */
  uint8_t     pri_user;       /* User priority based on p_cpu and p_nice. */
};

/*
* sys/caprights.h
*/
#define TARGET_CAP_RIGHTS_VERSION  0

typedef struct target_cap_rights {
  uint64_t    cr_rights[TARGET_CAP_RIGHTS_VERSION + 2];
} target_cap_rights_t;

/*
* From sys/_socketaddr_storage.h
*
*/
#define TARGET_SS_MAXSIZE     128U
#define TARGET_SS_ALIGNSIZE   (sizeof(__int64_t))
#define TARGET_SS_PAD1SIZE    (TARGET_SS_ALIGNSIZE - sizeof(unsigned char) - \
      sizeof(uint8_t))
#define TARGET_SS_PAD2SIZE    (TARGET_SS_MAXSIZE - sizeof(unsigned char) - \
      sizeof(uint8_t) - TARGET_SS_PAD1SIZE - TARGET_SS_ALIGNSIZE)

struct target_sockaddr_storage {
  unsigned char   ss_len;         /* address length */
  uint8_t         ss_family;      /* address family */
  char            __ss_pad1[TARGET_SS_PAD1SIZE];
  __int64_t       __ss_align;     /* force desired struct alignment */
  char            __ss_pad2[TARGET_SS_PAD2SIZE];
};

/*
 * from sys/user.h
*/
#define TARGET_KI_NSPARE_INT        2
#define TARGET_KI_NSPARE_LONG       12
#define TARGET_KI_NSPARE_PTR        6

#define TARGET_WMESGLEN             8
#define TARGET_LOCKNAMELEN          8
```

```
#define TARGET_TDNAMLEN            16
#define TARGET_COMMLEN             19
#define TARGET_KI_EMULNAMELEN      16
#define TARGET_KI_NGROUPS          16
#define TARGET_LOGNAMELEN          17
#define TARGET_LOGINCLASSLEN       17

#define TARGET_KF_TYPE_NONE        0
#define TARGET_KF_TYPE_VNODE       1
#define TARGET_KF_TYPE_SOCKET      2
#define TARGET_KF_TYPE_PIPE        3
#define TARGET_KF_TYPE_FIFO        4
#define TARGET_KF_TYPE_KQUEUE      5
#define TARGET_KF_TYPE_CRYPTO      6
#define TARGET_KF_TYPE_MQUEUE      7
#define TARGET_KF_TYPE_SHM         8
#define TARGET_KF_TYPE_SEM         9
#define TARGET_KF_TYPE_PTS         10
#define TARGET_KF_TYPE_PROCDESC    11
#define TARGET_KF_TYPE_DEV         12
#define TARGET_KF_TYPE_UNKNOWN     255

struct
 target_kinfo_proc {
   int32_t     ki_structsize;      /* size of this structure */
   int32_t     ki_layout;          /* reserved: layout identifier */
   abi_ulong   ki_args;            /* address of command arguments */
   abi_ulong   ki_paddr;           /* address of proc */
   abi_ulong   ki_addr;            /* kernel virtual addr of u-area */
   abi_ulong   ki_tracep;          /* pointer to trace file */
   abi_ulong   ki_textvp;          /* pointer to executable file */
   abi_ulong   ki_fd;              /* pointer to open file info */
   abi_ulong   ki_vmspace;         /* pointer to kernel vmspace struct */
   abi_ulong   ki_wchan;           /* sleep address */
   int32_t     ki_pid;             /* Process identifier */
   int32_t     ki_ppid;            /* parent process id */
   int32_t     ki_pgid;            /* process group id */
   int32_t     ki_tpgid;           /* tty process group id */
   int32_t     ki_sid;             /* Process session ID */
    int32_t     ki_tsid;           /* Terminal session ID */
   int16_t     ki_jobc;            /* job control counter */
   int16_t     ki_spare_short1;    /* unused (just here for alignment) */
   int32_t     ki_tdev__freebsd11; /* controlling tty dev */
   target_sigset_t ki_siglist;     /* Signals arrived but not delivered */
   target_sigset_t ki_sigmask;     /* Current signal mask */
   target_sigset_t ki_sigignore;   /* Signals being ignored */
   target_sigset_t ki_sigcatch;    /* Signals being caught by user */
```

```
 int32_t     ki_uid;           /* effective user id */
 int32_t     ki_ruid;          /* Real user id */
 int32_t     ki_svuid;         /* Saved effective user id */
 int32_t     ki_rgid;          /* Real group id */
 int32_t     ki_svgid;         /* Saved effective group id */
 int16_t     ki_ngroups;       /* number of groups */
 int16_t     ki_spare_short2;  /* unused (just here for alignment) */
 int32_t     ki_groups[TARGET_KI_NGROUPS];
/* groups */

 abi_long    ki_size;          /* virtual size */

 abi_long    ki_rssize;        /* current resident set size in pages */
 abi_long    ki_swrss;         /* resident set size before last swap */
 abi_long    ki_tsize;         /* text size (pages) XXX */
 abi_long    ki_dsize;         /* data size (pages) XXX */
 abi_long    ki_ssize;         /* stack size (pages) */

 uint16_t    ki_xstat;         /* Exit status for wait & stop signal */
 uint16_t    ki_acflag;        /* Accounting flags */

 uint32_t    ki_pctcpu;        /* %cpu for process during ki_swtime */

 uint32_t    ki_estcpu;        /* Time averaged value of ki_cpticks */
 uint32_t    ki_slptime;       /* Time since last blocked */
 uint32_t    ki_swtime;        /* Time swapped in or out */
 uint32_t    ki_cow;           /* number of copy-on-write faults */
 uint64_t    ki_runtime;       /* Real time in microsec */

 struct
target_freebsd_timeval ki_start;  /* starting time */
 struct  target_freebsd_timeval ki_childtime; /* time used by process children */

 abi_long    ki_flag;          /* P_* flags */
 abi_long    ki_kiflag;        /* KI_* flags (below) */
 int32_t     ki_traceflag;     /* Kernel trace points */
 char        ki_stat;          /* S* process status */
 int8_t      ki_nice;          /* Process "nice" value */
 char        ki_lock;          /* Process lock (prevent swap) count */
 char        ki_rqindex;       /* Run queue index */
 u_char      ki_oncpu_old;     /* Which cpu we are on (legacy) */
 u_char      ki_lastcpu_old;   /* Last cpu we were on (legacy) */
 char        ki_tdname[TARGET_TDNAMLEN + 1];  /* thread name */
 char        ki_wmesg[TARGET_WMESGLEN + 1];   /* wchan message */
 char        ki_login[TARGET_LOGNAMELEN + 1]; /* setlogin name */
 char        ki_lockname[TARGET_LOCKNAMELEN + 1]; /* lock name */
 char
```

```
        ki_comm[TARGET_COMMLEN + 1];     /* command name */
    char        ki_emul[TARGET_KI_EMULNAMELEN + 1];  /* emulation name */
    char        ki_loginclass[TARGET_LOGINCLASSLEN + 1]; /* login class */

    char        ki_sparestrings[50];    /* spare string space */
    int32_t     ki_spareints[TARGET_KI_NSPARE_INT]; /* spare room for growth */
    uint64_t ki_tdev;  /* controlling tty dev */
    int32_t     ki_oncpu;           /* Which cpu we are on */
    int32_t     ki_lastcpu;         /* Last cpu we were on */
    int32_t     ki_tracer;          /* Pid of tracing process */
    int32_t     ki_flag2;           /* P2_* flags */
    int32_t     ki_fibnum;          /* Default FIB number */
    uint32_t    ki_cr_flags;        /* Credential flags */
    int32_t     ki_jid;             /* Process jail ID */
    int32_t     ki_numthreads;      /* XXXKSE number of threads in total */

    int32_t     ki_tid;             /* XXXKSE thread id */

    struct  target_priority ki_pri; /*
   process priority */
    struct  target_freebsd_rusage ki_rusage;  /* process rusage statistics */
        /* XXX - most fields in ki_rusage_ch are not (yet) filled in */
    struct  target_freebsd_rusage ki_rusage_ch; /* rusage of children processes */



    abi_ulong   ki_pcb;             /* kernel virtual addr of pcb */
    abi_ulong   ki_kstack;          /* kernel virtual addr of stack */
    abi_ulong   ki_udata;           /* User convenience pointer */
    abi_ulong   ki_tdaddr;          /* address of thread */

    abi_ulong   ki_spareptrs[TARGET_KI_NSPARE_PTR];  /* spare room for growth */
    abi_long    ki_sparelongs[TARGET_KI_NSPARE_LONG];/* spare room for growth */
    abi_long    ki_sflag;           /* PS_* flags */
    abi_long    ki_tdflags;         /* XXXKSE kthread flag */
};

struct target_kinfo_file {
    int32_t  kf_structsize;  /* Variable size of record. */
    int32_t  kf_type;  /* Descriptor type. */
    int32_t  kf_fd;   /* Array index. */
    int32_t  kf_ref_count;
   /* Reference count. */
    int32_t  kf_flags;  /* Flags. */
    int32_t  kf_pad0;  /* Round to 64 bit alignment. */
    int64_t  kf_offset;  /* Seek location. */
    union {
        struct {
            uint32_t kf_spareint;
```

```
            /* Socket domain. */
            int  kf_sock_domain0;
            /* Socket type. */
            int  kf_sock_type0;
            /* Socket protocol. */
            int  kf_sock_protocol0;
            /* Socket address. */
            struct sockaddr_storage kf_sa_local;
            /* Peer address. */
            struct sockaddr_storage kf_sa_peer;
            /* Address of so_pcb. */
            uint64_t kf_sock_pcb;
            /* Address of inp_ppcb. */
            uint64_t kf_sock_inpcb;
            /* Address of unp_conn. */
            uint64_t kf_sock_unpconn;
            /* Send buffer state. */
            uint16_t kf_sock_snd_sb_state;
            /* Receive buffer state. */
            uint16_t kf_sock_rcv_sb_state;
            /* Round
        to 64 bit alignment. */
            uint32_t kf_sock_pad0;
        } kf_sock;
        struct {
            /* Vnode type. */
            int  kf_file_type;
            /* Space for future use */
            int  kf_spareint[3];
            uint64_t kf_spareint64[30];
            /* Vnode filesystem id. */
            uint64_t kf_file_fsid;
            /* File device. */
            uint64_t kf_file_rdev;
            /* Global file id. */
            uint64_t kf_file_fileid;
            /* File size. */
            uint64_t kf_file_size;
            /* Vnode filesystem id, FreeBSD 11 compat. */
            uint32_t kf_file_fsid_freebsd11;
            /* File device, FreeBSD 11 compat. */
            uint32_t kf_file_rdev_freebsd11;
            /* File mode. */
            uint16_t kf_file_mode;
            /* Round to 64 bit alignment. */
            uint16_t kf_file_pad0;
            uint32_t kf_file_pad1;
        } kf_file;
```

```
        struct {
            uint32_t kf_spareint[4];

         uint64_t kf_spareint64[32];
            uint32_t kf_sem_value;
            uint16_t kf_sem_mode;
        } kf_sem;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            uint64_t kf_pipe_addr;
            uint64_t kf_pipe_peer;
            uint32_t kf_pipe_buffer_cnt;
            /* Round to 64 bit alignment. */
            uint32_t kf_pipe_pad0[3];
        } kf_pipe;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            uint32_t kf_pts_dev_freebsd11;
            uint32_t kf_pts_pad0;
            uint64_t kf_pts_dev;
            /* Round to 64 bit alignment. */
            uint32_t kf_pts_pad1[4];
        } kf_pts;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            int32_t  kf_pid;
        } kf_proc;
    } kf_un;
    uint16_t kf_status;  /* Status flags. */
    uint16_t kf_pad1;  /* Round to 32 bit alignment. */
    int32_t
   _kf_ispare0;  /* Space for more stuff. */
    target_cap_rights_t kf_cap_rights; /* Capability rights. */
    uint64_t _kf_cap_spare; /* Space for future cap_rights_t. */
    /* Truncated before copyout in sysctl */
    char  kf_path[PATH_MAX]; /* Path to file, if any. */
};

struct target_kinfo_vmentry {
    int32_t  kve_structsize;  /* Variable size of record. */
    int32_t  kve_type;   /* Type of map entry. */
    uint64_t kve_start;   /* Starting address. */
    uint64_t kve_end;   /* Finishing address. */
    uint64_t kve_offset;   /* Mapping offset in object */
    uint64_t kve_vn_fileid;   /* inode number if vnode */
```

```
  uint32_t kve_vn_fsid_freebsd11;  /* dev_t of vnode location */
  int32_t  kve_flags;   /* Flags on map entry. */
  int32_t  kve_resident;   /* Number of resident pages. */
  int32_t  kve_private_resident;  /* Number of private pages. */
  int32_t  kve_protection;  /* Protection bitmask. */
  int32_t  kve_ref_count;   /* VM obj ref count. */
  int32_t
 kve_shadow_count;  /* VM obj shadow count. */
  int32_t  kve_vn_type;   /* Vnode type. */
  uint64_t kve_vn_size;   /* File size. */
  uint32_t kve_vn_rdev_freebsd11;  /* Device id if device. */
  uint16_t kve_vn_mode;   /* File mode. */
  uint16_t kve_status;   /* Status flags. */
#if (__FreeBSD_version >= 1300501 && __FreeBSD_version < 1400000) ||    \
  __FreeBSD_version >= 1400009
  union {
     uint64_t _kve_vn_fsid;  /* dev_t of vnode location */
     uint64_t _kve_obj;  /* handle of anon obj */
  } kve_type_spec;
#define kve_vn_fsid kve_type_spec._kve_vn_fsid
#define kve_obj  kve_type_spec._kve_obj
#else
  uint64_t kve_vn_fsid;   /* dev_t of vnode location */
#endif
  uint64_t kve_vn_rdev;   /* Device id if device. */
  int  _kve_ispare[8];  /* Space for more stuff. */
  /* Truncated before copyout in sysctl */
  char  kve_path[PATH_MAX];  /* Path to VM obj, if any. */
};

#endif /* TARGET_OS_USER_H */
```

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* System call related declarations
*
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*/

#ifndef SYSCALL_DEFS_H
#define SYSCALL_DEFS_H

#include <sys/syscall.h>
#include <sys/resource.h>

#include "errno_defs.h"

#include "freebsd/syscall_nr.h"
#include "netbsd/syscall_nr.h"
#include "openbsd/syscall_nr.h"

/*
* machine/_types.h
 * or x86/_types.h
*/

/*
* time_t seems to be very inconsistly defined for the different *BSD's...
*
* FreeBSD uses a 64bits time_t except on i386
* so we have to add a special case here.
*
* On NetBSD time_t is always defined as an int64_t.  On OpenBSD time_t
* is always defined as an int.
*
*/
#if (!defined(TARGET_I386))
typedef int64_t target_time_t;
#else
typedef int32_t target_time_t;
#endif

struct target_iovec {
  abi_long iov_base;   /* Starting address */
  abi_long iov_len;   /* Number of bytes */
```

```
};

/*
* sys/ipc.h
*/
struct target_ipc_perm {
  uint32_t    cuid;       /* creator user id */
  uint32_t    cgid;       /* creator group id */
  uint32_t    uid;        /* user id */
  uint32_t    gid;        /* group id */
  uint16_t    mode;       /* r/w permission */
  uint16_t    seq;        /* sequence # */
  abi_long    key;        /* user specified msg/sem/shm key */
};

#define TARGET_IPC_RMID 0   /* remove identifier */
#define TARGET_IPC_SET
 1   /* set options */
#define TARGET_IPC_STAT 2   /* get options */

/*
* sys/shm.h
*/
struct target_shmid_ds {
  struct  target_ipc_perm shm_perm; /* peration permission structure */
  abi_ulong   shm_segsz;  /* size of segment in bytes */
  int32_t     shm_lpid;   /* process ID of last shared memory op */
  int32_t     shm_cpid;   /* process ID of creator */
  int32_t     shm_nattch; /* number of current attaches */
  target_time_t shm_atime;  /* time of last shmat() */
  target_time_t shm_dtime;  /* time of last shmdt() */
  target_time_t shm_ctime;  /* time of last change by shmctl() */
};

#define N_BSD_SHM_REGIONS   32
struct bsd_shm_regions {
  abi_long start;
  abi_long size;
};

/*
*  sys/mman.h
*/
#define TARGET_MADV_DONTNEED          4       /* dont need these pages */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented */
                                    /* MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100
```

```
 0x0100  /* previously unimplemented */
                                /* MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400  /* region grows down, like a */
                                /* stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800  /* page to but do not sync */
                                /* underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7

#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after */
                                /* exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400  /* attempt hint address, even */
                                /* within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is */
                                /* established */

#define TARGET_NETBSD_MAP_STACK         0x2000  /* allocated from memory, */

            /* swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after */
                                /* exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100  /* for MAP_FILE, don't change */
                                /* file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, */
                                /* even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

/* XXX */
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

/*
* sys/time.h
* sys/timex.h
*/

typedef abi_long target_freebsd_suseconds_t;

/* compare to sys/timespec.h */
struct target_freebsd_timespec {
  target_time_t   tv_sec;     /* seconds */
  abi_long              tv_nsec;    /* and nanoseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
  abi_long _pad;
#endif
```

```
};

#define TARGET_CPUCLOCK_WHICH_PID   0
#define
 TARGET_CPUCLOCK_WHICH_TID   1

/* sys/umtx.h */
struct target_freebsd__umtx_time {
   struct target_freebsd_timespec  _timeout;
   uint32_t    _flags;
   uint32_t    _clockid;
};

struct target_freebsd_timeval {
   target_time_t       tv_sec; /* seconds */
   target_freebsd_suseconds_t  tv_usec;/* and microseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
   abi_long _pad;
#endif
};

/*
*  sys/resource.h
*/
#define TARGET_RLIM_INFINITY    RLIM_INFINITY

#define TARGET_RLIMIT_CPU       0
#define TARGET_RLIMIT_FSIZE     1
#define TARGET_RLIMIT_DATA      2
#define TARGET_RLIMIT_STACK     3
#define TARGET_RLIMIT_CORE      4
#define TARGET_RLIMIT_RSS       5
#define TARGET_RLIMIT_MEMLOCK   6
#define TARGET_RLIMIT_NPROC     7
#define TARGET_RLIMIT_NOFILE    8
#define TARGET_RLIMIT_SBSIZE    9
#define TARGET_RLIMIT_AS        10
#define TARGET_RLIMIT_NPTS      11
#define TARGET_RLIMIT_SWAP      12

struct target_rlimit {
   uint64_t rlim_cur;
   uint64_t rlim_max;
};

struct
 target_freebsd_rusage {
   struct target_freebsd_timeval ru_utime; /* user time used */
```

```
  struct target_freebsd_timeval ru_stime; /* system time used */
  abi_long    ru_maxrss;      /* maximum resident set size */
  abi_long    ru_ixrss;       /* integral shared memory size */
  abi_long    ru_idrss;       /* integral unshared data size */
  abi_long    ru_isrss;       /* integral unshared stack size */
  abi_long    ru_minflt;      /* page reclaims */
  abi_long    ru_majflt;      /* page faults */
  abi_long    ru_nswap;       /* swaps */
  abi_long    ru_inblock;     /* block input operations */
  abi_long    ru_oublock;     /* block output operations */
  abi_long    ru_msgsnd;      /* messages sent */
  abi_long    ru_msgrcv;      /* messages received */
  abi_long    ru_nsignals;    /* signals received */
  abi_long    ru_nvcsw;       /* voluntary context switches */
  abi_long    ru_nivcsw;      /* involuntary context switches */
};

struct
 target_freebsd__wrusage {
  struct target_freebsd_rusage wru_self;
  struct target_freebsd_rusage wru_children;
};

/*
* sys/stat.h
*/
struct target_freebsd11_stat {
  uint32_t  st_dev;       /* inode's device */
  uint32_t  st_ino;       /* inode's number */
  int16_t   st_mode;      /* inode protection mode */
  int16_t   st_nlink;     /* number of hard links */
  uint32_t  st_uid;       /* user ID of the file's owner */
  uint32_t  st_gid;       /* group ID of the file's group */
  uint32_t  st_rdev;      /* device type */
  struct  target_freebsd_timespec st_atim; /* time last accessed */
  struct  target_freebsd_timespec st_mtim; /* time last data modification */
  struct  target_freebsd_timespec st_ctim; /* time last file status change */
  int64_t    st_size;     /* file size, in bytes */
  int64_t    st_blocks;   /* blocks allocated for file */
  uint32_t   st_blksize;  /* optimal blocksize for I/O */
  uint32_t   st_flags;    /* user defined
 flags for file */
  uint32_t   st_gen;      /* file generation number */
  int32_t    st_lspare;
  struct target_freebsd_timespec st_birthtim; /* time of file creation */
  /*
   * Explicitly pad st_birthtim to 16 bytes so that the size of
   * struct stat is backwards compatible.  We use bitfields instead
```

```
     * of an array of chars so that this doesn't require a C99 compiler
     * to compile if the size of the padding is 0.  We use 2 bitfields
     * to cover up to 64 bits on 32-bit machines.  We assume that
     * CHAR_BIT is 8...
     */
    unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
    unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
} __packed;

#if defined(__i386__)
#define TARGET_HAS_STAT_TIME_T_EXT      1
#endif

struct target_stat {
    uint64_t  st_dev;             /* inode's device */
    uint64_t  st_ino;             /* inode's number */
    uint64_t  st_nlink;           /* number of hard links
 */
    int16_t   st_mode;            /* inode protection mode */
    int16_t   st_padding0;
    uint32_t  st_uid;             /* user ID of the file's owner */
    uint32_t  st_gid;             /* group ID of the file's group */
    int32_t   st_padding1;
    uint64_t  st_rdev;            /* device type */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
    int32_t   st_atim_ext;
#endif
    struct  target_freebsd_timespec st_atim; /* time of last access */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
    int32_t   st_mtim_ext;
#endif
    struct  target_freebsd_timespec st_mtim; /* time of last data modification */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
    int32_t st_ctim_ext;
#endif
    struct  target_freebsd_timespec st_ctim;/* time of last file status change */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
    int32_t st_btim_ext;
#endif
    struct  target_freebsd_timespec st_birthtim;   /* time of file creation */
    int64_t   st_size;            /* file size, in bytes */
    int64_t   st_blocks;
   /* blocks allocated for file */
    uint32_t  st_blksize;         /* optimal blocksize for I/O */
    uint32_t  st_flags;           /* user defined flags for file */
    uint64_t  st_gen;             /* file generation number */
    uint64_t  st_spare[10];
};
```

```
/* struct nstat is the same as stat above but without the st_lspare field */
struct target_freebsd11_nstat {
  uint32_t  st_dev;       /* inode's device */
  uint32_t  st_ino;       /* inode's number */
  int16_t   st_mode;      /* inode protection mode */
  int16_t   st_nlink;     /* number of hard links */
  uint32_t  st_uid;       /* user ID of the file's owner */
  uint32_t  st_gid;       /* group ID of the file's group */
  uint32_t  st_rdev;      /* device type */
  struct  target_freebsd_timespec st_atim; /* time last accessed */
  struct  target_freebsd_timespec st_mtim; /* time last data modification */
  struct  target_freebsd_timespec st_ctim; /* time last file status change */
  int64_t
  st_size;     /* file size, in bytes */
  int64_t    st_blocks;   /* blocks allocated for file */
  uint32_t   st_blksize;  /* optimal blocksize for I/O */
  uint32_t   st_flags;    /* user defined flags for file */
  uint32_t   st_gen;      /* file generation number */
  struct target_freebsd_timespec st_birthtim; /* time of file creation */
  /*
   * Explicitly pad st_birthtim to 16 bytes so that the size of
   * struct stat is backwards compatible.  We use bitfields instead
   * of an array of chars so that this doesn't require a C99 compiler
   * to compile if the size of the padding is 0.  We use 2 bitfields
   * to cover up to 64 bits on 32-bit machines.  We assume that
   * CHAR_BIT is 8...
   */
  unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
  unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
} __packed;

/*
* sys/mount.h
*/

/* filesystem id type */
typedef struct target_freebsd_fsid { int32_t
 val[2]; } target_freebsd_fsid_t;

/* filesystem statistics */
struct target_freebsd11_statfs {
  uint32_t f_version; /* structure version number */
  uint32_t f_type;    /* type of filesystem */
  uint64_t f_flags;   /* copy of mount exported flags */
  uint64_t f_bsize;   /* filesystem fragment size */
  uint64_t f_iosize;  /* optimal transfer block size */
```

```
  uint64_t f_blocks;  /* total data blocks in filesystem */
  uint64_t f_bfree;   /* free blocks in filesystem */
  int64_t  f_bavail;  /* free blocks avail to non-superuser */
  uint64_t f_files;   /* total file nodes in filesystem */
  int64_t  f_ffree;   /* free nodes avail to non-superuser */
  uint64_t f_syncwrites;  /* count of sync writes since mount */
  uint64_t f_asyncwrites; /* count of async writes since mount */
  uint64_t f_syncreads;   /* count of sync reads since mount */
  uint64_t f_asyncreads;  /* count of async reads since mount */
  uint64_t f_spare[10];   /* unused spare */

  uint32_t f_namemax; /* maximum filename length */
  uint32_t f_owner;   /* user that mounted the filesystem */
  target_freebsd_fsid_t   f_fsid; /* filesystem id */
  char     f_charspare[80];          /* spare string space */
  char     f_fstypename[16];   /* filesys type name */
  char     f_mntfromname[88];    /* mount filesystem */
  char     f_mntonname[88];      /* dir on which mounted*/
};

struct target_statfs {
  uint32_t f_version;           /* structure version number */
  uint32_t f_type;              /* type of filesystem */
  uint64_t f_flags;             /* copy of mount exported flags */
  uint64_t f_bsize;             /* filesystem fragment size */
  uint64_t f_iosize;            /* optimal transfer block size */
  uint64_t f_blocks;            /* total data blocks in filesystem */
  uint64_t f_bfree;             /* free blocks in filesystem */
  int64_t  f_bavail;            /* free blocks avail to non-superuser */
  uint64_t
 f_files;             /* total file nodes in filesystem */
  int64_t  f_ffree;             /* free nodes avail to non-superuser */
  uint64_t f_syncwrites;        /* count of sync writes since mount */
  uint64_t f_asyncwrites;       /* count of async writes since mount */
  uint64_t f_syncreads;         /* count of sync reads since mount */
  uint64_t f_asyncreads;        /* count of async reads since mount */
  uint64_t f_spare[10];         /* unused spare */
  uint32_t f_namemax;           /* maximum filename length */
  uint32_t f_owner;             /* user that mounted the filesystem */
  target_freebsd_fsid_t f_fsid;   /* filesystem id */
  char      f_charspare[80];      /* spare string space */
  char      f_fstypename[16];     /* filesystem type name */
  char      f_mntfromname[1024];  /* mounted filesystem */
  char      f_mntonname[1024];    /* directory on which mounted */
};

/* File identifier. These are unique per filesystem
```

```
 on a single machine. */
#define TARGET_MAXFIDSZ     16

struct target_freebsd_fid {
   uint16_t    fid_len;           /* len of data in bytes */
   uint16_t    fid_data0;         /* force longword align */
   char        fid_data[TARGET_MAXFIDSZ];  /* data (variable len) */
};

/* Generic file handle */
struct target_freebsd_fhandle {
   target_freebsd_fsid_t   fh_fsid;    /* Filesystem id of mount point */
   struct target_freebsd_fid fh_fid;   /* Filesys specific id */
};
typedef struct target_freebsd_fhandle target_freebsd_fhandle_t;

/*
* sys/fcntl.h
*/
#define TARGET_F_DUPFD             0
#define TARGET_F_GETFD             1
#define TARGET_F_SETFD             2
#define TARGET_F_GETFL             3
#define TARGET_F_SETFL             4
#define TARGET_F_GETOWN            5
#define TARGET_F_SETOWN            6
#define TARGET_F_OGETLK            7
#define TARGET_F_OSETLK            8
#define TARGET_F_OSETLKW           9
#define TARGET_F_DUP2FD            10
#define
 TARGET_F_GETLK             11
#define TARGET_F_SETLK             12
#define TARGET_F_SETLKW            13
#define TARGET_F_SETLK_REMOTE      14
#define TARGET_F_READAHEAD         15
#define TARGET_F_RDAHEAD           16
#define TARGET_F_DUPFD_CLOEXEC     17
#define TARGET_F_DUP2FD_CLOEXEC    18
/* FreeBSD-specific */
#define TARGET_F_ADD_SEALS         19
#define TARGET_F_GET_SEALS         20

struct target_freebsd_flock {
   int64_t l_start;
   int64_t l_len;
   int32_t l_pid;
   int16_t l_type;
```

```
  int16_t l_whence;
  int32_t l_sysid;
} QEMU_PACKED;

/* sys/unistd.h */
/* user: vfork(2) semantics, clear signals */
#define TARGET_RFSPAWN (1U << 31)

/*
* from sys/procctl.h
*/
#define TARGET_PROC_SPROTECT          1
#define TARGET_PROC_REAP_ACQUIRE      2
#define TARGET_PROC_REAP_RELEASE      3
#define TARGET_PROC_REAP_STATUS       4
#define TARGET_PROC_REAP_GETPIDS      5
#define TARGET_PROC_REAP_KILL         6

struct target_procctl_reaper_status {

  uint32_t rs_flags;
  uint32_t rs_children;
  uint32_t rs_descendants;
  uint32_t rs_reaper;
  uint32_t rs_pid;
  uint32_t rs_pad0[15];
};

struct target_procctl_reaper_pidinfo {
  uint32_t pi_pid;
  uint32_t pi_subtree;
  uint32_t pi_flags;
  uint32_t pi_pad0[15];
};

struct target_procctl_reaper_pids {
  uint32_t rp_count;
  uint32_t rp_pad0[15];
  abi_ulong rp_pids;
};

struct target_procctl_reaper_kill {
  int32_t  rk_sig;
  uint32_t rk_flags;
  uint32_t rk_subtree;
  uint32_t rk_killed;
  uint32_t rk_fpid;
  uint32_t rk_pad0[15];
```

```
};


#define safe_syscall0(type, name) \
type safe_##name(void) \
{ \
  return safe_syscall(SYS_##name); \
}

#define safe_syscall1(type, name, type1, arg1) \
type safe_##name(type1 arg1) \
{ \
  return safe_syscall(SYS_##name, arg1); \
}

#define safe_syscall2(type, name, type1, arg1, type2, arg2) \
type safe_##name(type1 arg1, type2 arg2) \
{ \
  return safe_syscall(SYS_##name, arg1, arg2); \
}

#define safe_syscall3(type,
 name, type1, arg1, type2, arg2, type3, arg3) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3) \
{ \
  return safe_syscall(SYS_##name, arg1, arg2, arg3); \
}

#define safe_syscall4(type, name, type1, arg1, type2, arg2, type3, arg3, \
  type4, arg4) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4) \
{ \
  return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4); \
}

#define safe_syscall5(type, name, type1, arg1, type2, arg2, type3, arg3, \
  type4, arg4, type5, arg5) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4, \
  type5 arg5) \
{ \
  return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4, arg5); \
}

#define safe_syscall6(type, name, type1, arg1, type2, arg2, type3, arg3, \
  type4, arg4, type5, arg5, type6, arg6) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4, \
  type5 arg5, type6 arg6) \
{ \
```

```
  return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4, arg5, arg6); \
}

#define safe_fcntl(...)
 safe_syscall(SYS_fcntl, __VA_ARGS__)

/* So far all target and host bitmasks are the same */
#undef  target_to_host_bitmask
#define target_to_host_bitmask(x, tbl) (x)
#undef  host_to_target_bitmask
#define host_to_target_bitmask(x, tbl) (x)

#endif /* SYSCALL_DEFS_H */
#ifndef TARGET_OS_SIGNAL_H
#define TARGET_OS_SIGNAL_H

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

#define TARGET_SIGHUP  1      /* hangup */
#define TARGET_SIGINT  2      /* interrupt */
#define TARGET_SIGQUIT 3      /* quit */
#define TARGET_SIGILL  4      /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5      /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6      /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7      /* EMT instruction */
#define TARGET_SIGFPE  8      /* floating point exception */
#define TARGET_SIGKILL 9      /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10     /* bus error */
#define TARGET_SIGSEGV 11     /* segmentation violation */
#define TARGET_SIGSYS  12     /* bad argument to system call */
#define TARGET_SIGPIPE 13     /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14     /* alarm clock */
#define TARGET_SIGTERM
 15     /* software termination signal from kill */
#define TARGET_SIGURG  16     /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17     /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18     /* stop signal from tty */
#define TARGET_SIGCONT 19     /* continue a stopped process */
#define TARGET_SIGCHLD 20     /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21     /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22     /* like TTIN for out if (tp->t_local&LTOSTOP) */
#define TARGET_SIGIO   23     /* input/output possible signal */
#define TARGET_SIGXCPU 24     /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25     /* exceeded file size limit */
#define TARGET_SIGVTALRM 26   /* virtual time alarm */
#define TARGET_SIGPROF   27   /* profiling time alarm */
```

```
#define TARGET_SIGWINCH  28    /* window size changes */
#define TARGET_SIGINFO   29    /* information request */
#define TARGET_SIGUSR1   30    /* user
 defined signal 1 */
#define TARGET_SIGUSR2   31    /* user defined signal 2 */

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL        ((void (*)(int))0)
#define TARGET_SIG_IGN        ((void (*)(int))1)
#define TARGET_SIG_ERR        ((void (*)(int))-1)

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER   0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK
      1       /* block specified signal set */
#define TARGET_SIG_UNBLOCK     2       /* unblock specified signal set */
#define TARGET_SIG_SETMASK     3       /* set specified signal set */

#define TARGET_BADSIG       SIG_ERR

#define TARGET_SS_ONSTACK 0x0001 /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004 /* disable taking signals on alternate stack */

#endif /* TARGET_OS_SIGNAL_H */
/*
*  x86_64 signal definitions
*
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*/

#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)              /* min sig stack size */
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

typedef struct target_mcontext {
  abi_ulong   mc_onstack;     /* XXX - sigcontext compat. */
  abi_ulong   mc_rdi;         /* machine state (struct trapframe) */
  abi_ulong   mc_rsi;
  abi_ulong   mc_rdx;
  abi_ulong   mc_rcx;
  abi_ulong   mc_r8;
  abi_ulong   mc_r9;
  abi_ulong   mc_rax;
  abi_ulong   mc_rbx;
  abi_ulong   mc_rbp;
  abi_ulong   mc_r10;
  abi_ulong   mc_r11;
  abi_ulong   mc_r12;
  abi_ulong   mc_r13;
  abi_ulong   mc_r14;
  abi_ulong   mc_r15;
  uint32_t    mc_trapno;
  uint16_t    mc_fs;
  uint16_t    mc_gs;
  abi_ulong   mc_addr;
  uint32_t    mc_flags;
  uint16_t    mc_es;
  uint16_t    mc_ds;
  abi_ulong   mc_err;
  abi_ulong   mc_rip;
  abi_ulong   mc_cs;
  abi_ulong   mc_rflags;
```

```
  abi_ulong   mc_rsp;
  abi_ulong   mc_ss;

  abi_long    mc_len;               /* sizeof(mcontext_t) */

#define _MC_FPFMT_NODEV         0x10000 /* device not present
 or configured */
#define _MC_FPFMT_XMM           0x10002
  abi_long    mc_fpformat;
#define _MC_FPOWNED_NONE        0x20000 /* FP state not used */
#define _MC_FPOWNED_FPU         0x20001 /* FP state came from FPU */
#define _MC_FPOWNED_PCB         0x20002 /* FP state came from PCB */
  abi_long    mc_ownedfp;
  /*
   * See <machine/fpu.h> for the internals of mc_fpstate[].
   */
  abi_long    mc_fpstate[64] __aligned(16);

  abi_ulong   mc_fsbase;
  abi_ulong   mc_gsbase;

  abi_ulong   mc_xfpustate;
  abi_ulong   mc_xfpustate_len;

  abi_long    mc_spare[4];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 800
#define TARGET_UCONTEXT_SIZE 880

#include "target_os_ucontext.h"

struct target_sigframe {
  abi_ulong   sf_signum;
  abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
  abi_ulong   sf_ucontext;   /* points to sf_uc */
  abi_ulong   sf_addr;       /* undocumented 4th arg */
  target_ucontext_t   sf_uc; /* = *sf_uncontext */
  target_siginfo_t
   sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
  uint32_t    __spare__[2];
};

#endif /* TARGET_ARCH_SIGNAL_H */
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
/*
*  arm thread support
```

```
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*/

#ifndef TARGET_ARCH_THREAD_H
#define TARGET_ARCH_THREAD_H

/* Compare to arm/arm/vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUARMState *env, abi_ulong entry,
  abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
  abi_ulong
 sp;

  /*
   * Make sure the stack is properly aligned.
   * arm/include/param.h (STACKLIGN() macro)
   */
  sp = (u_int)(stack_base + stack_size) & ~0x7;

  /* sp = stack base */
  env->regs[13] = sp;
  /* pc = start function entry */
  env->regs[15] = entry & 0xfffffffe;
  /* r0 = arg */
  env->regs[0] = arg;
  env->spsr = ARM_CPU_MODE_USR;
  /*
   * Thumb mode is encoded by the low bit in the entry point (since ARM can't
   * execute at odd addresses). When it's set, set the Thumb bit (T) in the
   * CPSR.
   */
  cpsr_write(env, (entry & 1) * CPSR_T, CPSR_T, CPSRWriteByInstr);
}
```

```
static inline void target_thread_init(struct target_pt_regs *regs,
      struct image_info *infop)
{
  abi_long stack = infop->start_stack;
  memset(regs, 0, sizeof(*regs));
  regs->ARM_cpsr = ARM_CPU_MODE_USR;
  /*
   * Thumb mode is encoded by the low bit in the entry point (since ARM can't
   * execute at odd addresses). When it's set, set the Thumb
 bit (T) in the
   * CPSR.
   */
  if (infop->entry & 1) {
     regs->ARM_cpsr |= CPSR_T;
  }
  regs->ARM_pc = infop->entry & 0xfffffffe;
  regs->ARM_sp = stack;
  regs->ARM_lr = infop->entry & 0xfffffffe;
  /*
   * FreeBSD kernel passes the ps_strings pointer in r0. This is used by some
   * programs to set status messages that we see in ps. bsd-user doesn't
   * support that functionality, so it's ignored. When set to 0, FreeBSD's csu
   * code ignores it. For the static case, r1 and r2 are effectively ignored
   * by the csu __startup() routine. For the dynamic case, rtld saves r0 but
   * generates r1 and r2 and passes them into the csu _startup.
   *
   * r0 ps_strings 0 passed since ps arg setting not supported
   * r1 obj_main   ignored by _start(), so 0 passed
   * r2 cleanup    generated by rtld or ignored by _start(), so 0 passed
   */
}

#endif /* TARGET_ARCH_THREAD_H */
```

```
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#ifndef BSD_PROC_H_
#define BSD_PROC_H_

#include <sys/resource.h>

#include "qemu-bsd.h"
#include "gdbstub/syscalls.h"
#include "qemu/plugin.h"

extern int _getlogin(char*, int);
int bsd_get_ncpu(void);

/* exit(2) */
static inline abi_long
 do_bsd_exit(void *cpu_env, abi_long arg1)
{
  gdb_exit(arg1);
  qemu_plugin_user_exit();
  _exit(arg1);

  return 0;
}

/* getgroups(2) */
static inline abi_long do_bsd_getgroups(abi_long gidsetsize, abi_long arg2)
```

```
{
  abi_long ret;
  uint32_t *target_grouplist;
  g_autofree gid_t *grouplist;
  int i;

  grouplist = g_try_new(gid_t, gidsetsize);
  ret = get_errno(getgroups(gidsetsize, grouplist));
  if (gidsetsize != 0) {
      if (!is_error(ret)) {
          target_grouplist = lock_user(VERIFY_WRITE, arg2, gidsetsize * 2, 0);
          if (!target_grouplist) {
              return -TARGET_EFAULT;
          }
          for (i = 0; i < ret; i++) {
              target_grouplist[i] = tswap32(grouplist[i]);
          }
          unlock_user(target_grouplist, arg2, gidsetsize * 2);
      }
  }
  return ret;
}

/* setgroups(2) */
static inline abi_long do_bsd_setgroups(abi_long gidsetsize, abi_long arg2)
{
  uint32_t *target_grouplist;
   g_autofree gid_t *grouplist;
  int i;

  grouplist = g_try_new(gid_t, gidsetsize);
  target_grouplist = lock_user(VERIFY_READ, arg2, gidsetsize * 2, 1);
  if (!target_grouplist) {
      return -TARGET_EFAULT;
  }
  for (i = 0; i < gidsetsize; i++) {
      grouplist[i] = tswap32(target_grouplist[i]);
  }
  unlock_user(target_grouplist, arg2, 0);
  return get_errno(setgroups(gidsetsize, grouplist));
}

/* umask(2) */
static inline abi_long do_bsd_umask(abi_long arg1)
{
  return get_errno(umask(arg1));
}
```

```
/* setlogin(2) */
static inline abi_long do_bsd_setlogin(abi_long arg1)
{
  abi_long ret;
  void *p;

  p = lock_user_string(arg1);
  if (p == NULL) {
      return -TARGET_EFAULT;
  }
  ret = get_errno(setlogin(p));
  unlock_user(p, arg1, 0);

  return ret;
}

/* getlogin(2) */
static inline abi_long do_bsd_getlogin(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
  if (p == NULL)
 {
      return -TARGET_EFAULT;
  }
  ret = get_errno(_getlogin(p, arg2));
  unlock_user(p, arg1, arg2);

  return ret;
}

/* getrusage(2) */
static inline abi_long do_bsd_getrusage(abi_long who, abi_ulong target_addr)
{
  abi_long ret;
  struct rusage rusage;

  ret = get_errno(getrusage(who, &rusage));
  if (!is_error(ret)) {
      host_to_target_rusage(target_addr, &rusage);
  }
  return ret;
}

/* getrlimit(2) */
static inline abi_long do_bsd_getrlimit(abi_long arg1, abi_ulong arg2)
```

```
{
  abi_long ret;
  int resource = target_to_host_resource(arg1);
  struct target_rlimit *target_rlim;
  struct rlimit rlim;

  switch (resource) {
  case RLIMIT_STACK:
     rlim.rlim_cur = target_dflssiz;
     rlim.rlim_max = target_maxssiz;
     ret = 0;
     break;

  case RLIMIT_DATA:
     rlim.rlim_cur = target_dfldsiz;
     rlim.rlim_max = target_maxdsiz;
     ret = 0;
     break;

  default:
     ret = get_errno(getrlimit(resource,
 &rlim));
     break;
  }
  if (!is_error(ret)) {
     if (!lock_user_struct(VERIFY_WRITE, target_rlim, arg2, 0)) {
        return -TARGET_EFAULT;
     }
     target_rlim->rlim_cur = host_to_target_rlim(rlim.rlim_cur);
     target_rlim->rlim_max = host_to_target_rlim(rlim.rlim_max);
     unlock_user_struct(target_rlim, arg2, 1);
  }
  return ret;
}

/* setrlimit(2) */
static inline abi_long do_bsd_setrlimit(abi_long arg1, abi_ulong arg2)
{
  abi_long ret;
  int resource = target_to_host_resource(arg1);
  struct target_rlimit *target_rlim;
  struct rlimit rlim;

  if (RLIMIT_STACK == resource) {
     /* XXX We should, maybe, allow the stack size to shrink */
     ret = -TARGET_EPERM;
  } else {
     if (!lock_user_struct(VERIFY_READ, target_rlim, arg2, 1)) {
```

```
            return -TARGET_EFAULT;
        }
        rlim.rlim_cur = target_to_host_rlim(target_rlim->rlim_cur);
        rlim.rlim_max = target_to_host_rlim(target_rlim->rlim_max);
         unlock_user_struct(target_rlim, arg2, 0);
        ret = get_errno(setrlimit(resource, &rlim));
    }
    return ret;
}

/* getpid(2) */
static inline abi_long do_bsd_getpid(void)
{
    return get_errno(getpid());
}

/* getppid(2) */
static inline abi_long do_bsd_getppid(void)
{
    return get_errno(getppid());
}

/* getuid(2) */
static inline abi_long do_bsd_getuid(void)
{
    return get_errno(getuid());
}

/* geteuid(2) */
static inline abi_long do_bsd_geteuid(void)
{
    return get_errno(geteuid());
}

/* getgid(2) */
static inline abi_long do_bsd_getgid(void)
{
    return get_errno(getgid());
}

/* getegid(2) */
static inline abi_long do_bsd_getegid(void)
{
    return get_errno(getegid());
}

/* setuid(2) */
static inline abi_long do_bsd_setuid(abi_long arg1)
```

```
{
  return get_errno(setuid(arg1));
}

/* seteuid(2) */
static inline abi_long do_bsd_seteuid(abi_long arg1)
{
  return get_errno(seteuid(arg1));
}

/* setgid(2) */
static inline abi_long do_bsd_setgid(abi_long arg1)
{
   return get_errno(setgid(arg1));
}

/* setegid(2) */
static inline abi_long do_bsd_setegid(abi_long arg1)
{
  return get_errno(setegid(arg1));
}

/* getpgid(2) */
static inline abi_long do_bsd_getpgid(pid_t pid)
{
  return get_errno(getpgid(pid));
}

/* setpgid(2) */
static inline abi_long do_bsd_setpgid(int pid, int pgrp)
{
  return get_errno(setpgid(pid, pgrp));
}

/* getpgrp(2) */
static inline abi_long do_bsd_getpgrp(void)
{
  return get_errno(getpgrp());
}

/* setreuid(2) */
static inline abi_long do_bsd_setreuid(abi_long arg1, abi_long arg2)
{
  return get_errno(setreuid(arg1, arg2));
}

/* setregid(2) */
static inline abi_long do_bsd_setregid(abi_long arg1, abi_long arg2)
```

```
{
  return get_errno(setregid(arg1, arg2));
}

/* setresgid(2) */
static inline abi_long do_bsd_setresgid(gid_t rgid, gid_t egid, gid_t sgid)
{
  return get_errno(setresgid(rgid, egid, sgid));
}

/* setresuid(2) */
static inline abi_long do_bsd_setresuid(uid_t ruid, uid_t euid, uid_t suid)
{
   return get_errno(setresuid(ruid, euid, suid));
}

/* getresuid(2) */
static inline abi_long do_bsd_getresuid(abi_ulong arg1, abi_ulong arg2,
      abi_ulong arg3)
{
  abi_long ret;
  uid_t ruid, euid, suid;

  ret = get_errno(getresuid(&ruid, &euid, &suid));
  if (is_error(ret)) {
        return ret;
  }
  if (put_user_s32(ruid, arg1)) {
     return -TARGET_EFAULT;
  }
  if (put_user_s32(euid, arg2)) {
     return -TARGET_EFAULT;
  }
  if (put_user_s32(suid, arg3)) {
     return -TARGET_EFAULT;
  }
  return ret;
}

/* getresgid(2) */
static inline abi_long do_bsd_getresgid(abi_ulong arg1, abi_ulong arg2,
                                abi_ulong arg3)
{
  abi_long ret;
  uid_t ruid, euid, suid;

  ret = get_errno(getresgid(&ruid, &euid, &suid));
  if (is_error(ret)) {
```

```
        return ret;
    }
    if (put_user_s32(ruid, arg1)) {
        return -TARGET_EFAULT;
    }
    if (put_user_s32(euid, arg2)) {
        return -TARGET_EFAULT;
     }
    if (put_user_s32(suid, arg3)) {
        return -TARGET_EFAULT;
    }
    return ret;
}

/* getsid(2) */
static inline abi_long do_bsd_getsid(abi_long arg1)
{
    return get_errno(getsid(arg1));
}

/* setsid(2) */
static inline abi_long do_bsd_setsid(void)
{
    return get_errno(setsid());
}

/* issetugid(2) */
static inline abi_long do_bsd_issetugid(void)
{
    return get_errno(issetugid());
}

/* profil(2) */
static inline abi_long do_bsd_profil(abi_long arg1, abi_long arg2,
                                     abi_long arg3, abi_long arg4)
{
    return -TARGET_ENOSYS;
}

/* ktrace(2) */
static inline abi_long do_bsd_ktrace(abi_long arg1, abi_long arg2,
                                     abi_long arg3, abi_long arg4)
{
    return -TARGET_ENOSYS;
}

/* utrace(2) */
static inline abi_long do_bsd_utrace(abi_long arg1, abi_long arg2)
```

```
{
  return -TARGET_ENOSYS;
}


/* ptrace(2) */
static inline abi_long do_bsd_ptrace(abi_long arg1, abi_long arg2,
      abi_long
 arg3, abi_long arg4)
{
  return -TARGET_ENOSYS;
}

/* getpriority(2) */
static inline abi_long do_bsd_getpriority(abi_long which, abi_long who)
{
  abi_long ret;
  /*
   * Note that negative values are valid for getpriority, so we must
   * differentiate based on errno settings.
   */
  errno = 0;
  ret = getpriority(which, who);
  if (ret == -1 && errno != 0) {
      return -host_to_target_errno(errno);
  }

  return ret;
}

/* setpriority(2) */
static inline abi_long do_bsd_setpriority(abi_long which, abi_long who,
                                  abi_long prio)
{
  return get_errno(setpriority(which, who, prio));
}

#endif /* !BSD_PROC_H_ */
```

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John R. Hauser
2018 January 20

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```
/*
*  arm signal definitions
*
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```
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#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

#define TARGET_REG_R0   0
#define TARGET_REG_R1   1
#define TARGET_REG_R2   2
#define TARGET_REG_R3   3
#define TARGET_REG_R4   4
#define TARGET_REG_R5   5
#define TARGET_REG_R6   6
#define TARGET_REG_R7
  7
#define TARGET_REG_R8   8
#define TARGET_REG_R9   9
#define TARGET_REG_R10  10
#define TARGET_REG_R11  11
#define TARGET_REG_R12  12
#define TARGET_REG_R13  13
#define TARGET_REG_R14  14
#define TARGET_REG_R15  15
#define TARGET_REG_CPSR 16
#define TARGET__NGREG   17
/* Convenience synonyms */
#define TARGET_REG_FP   TARGET_REG_R11
#define TARGET_REG_SP   TARGET_REG_R13
#define TARGET_REG_LR   TARGET_REG_R14
#define TARGET_REG_PC   TARGET_REG_R15

#define TARGET_INSN_SIZE    4       /* arm instruction size */

/* Size of the signal trampolin code. See _sigtramp(). */
#define TARGET_SZSIGCODE    ((abi_ulong)(9 * TARGET_INSN_SIZE))

/* compare to arm/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (1024 * 4)              /* min sig stack size */
#define TARGET_SIGSTKSZ     (TARGET_MINSIGSTKSZ + 32768)  /* recommended size */

/*
* Floating point register state
*/
typedef struct target_mcontext_vfp {
  abi_ullong  mcv_reg[32];
  abi_ulong   mcv_fpscr;
```

```
} target_mcontext_vfp_t;

typedef
 struct target_mcontext {
  abi_uint    __gregs[TARGET__NGREG];

  /*
   * Originally, rest of this structure was named __fpu, 35 * 4 bytes
   * long, never accessed from kernel.
   */
  abi_ulong   mc_vfp_size;
  abi_ptr     mc_vfp_ptr;
  abi_int     mc_spare[33];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 208
#define TARGET_UCONTEXT_SIZE 260

#include "target_os_ucontext.h"

struct target_sigframe {
  target_siginfo_t    sf_si;  /* saved siginfo */
  target_ucontext_t   sf_uc;  /* saved ucontext */
  target_mcontext_vfp_t sf_vfp; /* actual saved VFP context */
};

#endif /* TARGET_ARCH_SIGNAL_H */
/*
* Intel general target stuff that's common to all x86_64 details
*
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*/

#ifndef TARGET_H
#define TARGET_H

/*
* x86 doesn't 'lump' the registers for 64-bit args, all args are 64 bits.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
  return false;
}

#endif /* TARGET_H */
```

```
/*
*  FreeBSD i386 register structures
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*/

#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/i386/include/reg.h */
typedef struct target_reg {
  uint32_t      r_fs;
  uint32_t      r_es;
  uint32_t      r_ds;
  uint32_t      r_edi;
  uint32_t
   r_esi;
  uint32_t      r_ebp;
  uint32_t      r_isp;
  uint32_t      r_ebx;
  uint32_t      r_edx;
  uint32_t      r_ecx;
  uint32_t      r_eax;
  uint32_t      r_trapno;
  uint32_t      r_err;
  uint32_t      r_eip;
  uint32_t      r_cs;
  uint32_t      r_eflags;
  uint32_t      r_esp;
  uint32_t      r_ss;
  uint32_t      r_gs;
} target_reg_t;

typedef struct target_fpreg {
```

```
  uint32_t        fpr_env[7];
  uint8_t         fpr_acc[8][10];
  uint32_t        fpr_ex_sw;
  uint8_t         fpr_pad[64];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
{

  regs->r_fs = env->segs[R_FS].selector & 0xffff;
  regs->r_es = env->segs[R_ES].selector & 0xffff;
  regs->r_ds = env->segs[R_DS].selector & 0xffff;

  regs->r_edi = env->regs[R_EDI];
  regs->r_esi = env->regs[R_ESI];
  regs->r_ebp = env->regs[R_EBP];
  /* regs->r_isp = env->regs[R_ISP]; XXX */
  regs->r_ebx =
 env->regs[R_EBX];
  regs->r_edx = env->regs[R_EDX];
  regs->r_ecx = env->regs[R_ECX];
  regs->r_eax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_eip = env->eip;

  regs->r_cs = env->segs[R_CS].selector & 0xffff;

  regs->r_eflags = env->eflags;
  regs->r_esp = env->regs[R_ESP];

  regs->r_ss = env->segs[R_SS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
}

#endif /* TARGET_ARCH_REG_H */
```

1.616 libcacard 1:2.8.0-3build4

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1.617 libisoburn 1:1.5.6-1.1ubuntu3

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1.618 pipewire 1.0.5-1ubuntu3.1

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```
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#ifndef PIPEWIRE_PERMISSION_H
#define PIPEWIRE_PERMISSION_H

#ifdef __cplusplus
extern "C" {
#endif

#include <spa/utils/defs.h>

/** \defgroup pw_permission Permission
*
* Permissions are kept for a client and describe what the client is
* allowed to do with an object.
*
* See \ref page_core_api
*/

/**
* \addtogroup pw_permission
* \{
*/

#define PW_PERM_R 0400 /**< object can be seen and events can be received */
#define PW_PERM_W 0200 /**< methods can be called that modify the object */
```

```
#define PW_PERM_X 0100 /**< methods can be called on the object. The W flag must be
     *  present in order to call methods that modify the object. */
#define PW_PERM_M 0010 /**< metadata can be set on object, Since 0.3.9 */
#define PW_PERM_L 0020 /**< a link can be made between a node that doesn't have
     *  permission to see the other node, Since 0.3.77 */

#define PW_PERM_RW (PW_PERM_R|PW_PERM_W)
#define
 PW_PERM_RWX (PW_PERM_RW|PW_PERM_X)
#define PW_PERM_RWXM (PW_PERM_RWX|PW_PERM_M)
#define PW_PERM_RWXML (PW_PERM_RWXM|PW_PERM_L)

#define PW_PERM_IS_R(p) (((p)&PW_PERM_R) == PW_PERM_R)
#define PW_PERM_IS_W(p) (((p)&PW_PERM_W) == PW_PERM_W)
#define PW_PERM_IS_X(p) (((p)&PW_PERM_X) == PW_PERM_X)
#define PW_PERM_IS_M(p) (((p)&PW_PERM_M) == PW_PERM_M)
#define PW_PERM_IS_L(p) (((p)&PW_PERM_L) == PW_PERM_L)

#define PW_PERM_ALL PW_PERM_RWXM
#define PW_PERM_INVALID (uint32_t)(0xffffffff)

struct pw_permission {
 uint32_t id;  /**< id of object, PW_ID_ANY for default permission */
 uint32_t permissions; /**< bitmask of above permissions */
};

#define PW_PERMISSION_INIT(id,p) ((struct pw_permission){ (id), (p) })

#define PW_PERMISSION_FORMAT "%c%c%c%c%c"
#define PW_PERMISSION_ARGS(permission)  \
 (permission) & PW_PERM_R ? 'r' : '-', \
 (permission) & PW_PERM_W ? 'w' : '-', \
 (permission) & PW_PERM_X ? 'x' : '-', \
 (permission) & PW_PERM_M ? 'm' : '-', \
 (permission)
 & PW_PERM_L ? 'l' : '-'

/**
* \}
*/

#ifdef __cplusplus
}
#endif

#endif /* PIPEWIRE_PERMISSION_H */
```

1.619 ceph 19.2.1-0ubuntu0.24.04.2

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{
 "name": "boost-mpl",
 "version-string": "1.75.0",
 "description": "Boost mpl module",
 "homepage": "https://github.com/boostorg/mpl",
 "dependencies": [
   "boost-config",
   "boost-core",
   "boost-detail",
   "boost-predef",
   "boost-preprocessor",
   "boost-static-assert",
   "boost-type-traits",
   "boost-vcpkg-helpers"
 ]
}
```

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```
{
 "versions": [
  {
   "git-tree": "3c6847d1a221443ccdfefc9a8618c928af1137da",
   "version-string": "1.75.0",
   "port-version": 0
  },
  {
   "git-tree": "5058b7a6caf7e35dc719433daed180a2c85b0bb9",
   "version-string": "1.74.0",
   "port-version": 0
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  {
   "git-tree": "d579d7cb90cfb3377f303e51e46b1bdfc2128043",
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   "git-tree": "db53ae1618f8c64c038ebd7a98c073b7e5fb9c3d",
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  {
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  {
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   "port-version": 0
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  {
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   "version-string": "1.67.0",
   "port-version": 0
  },
  {
   "git-tree": "58b4c8525b6d8e05a4aafb4e3439a43c1abeb0d4",
   "version-string": "1.66.0",
   "port-version": 0
  }
 ]
}
```


Source: kvasir-mpl
Version: 2019-08-06
Homepage: https://github.com/kvasir-io/mpl
Description: This library is part of the Kvasir project. Kvasir is a collection of zero cost statically checked libraries for resource constrained systems including microcontrollers.

Feature: test
Description: Build with test

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the work with the complete corresponding
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Jerasure - A C/C++ Library for a Variety of Reed-Solomon and RAID-6 Erasure Coding Techniques

Revision 2.0: Galois Field backend now links to GF-Complete

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http://www.boost.org/LICENSE_1_0.txt)
*/

#ifndef BOOST_PREDEF_OS_BSD_H
#define BOOST_PREDEF_OS_BSD_H

/* Special case: OSX will define BSD predefs if the sys/param.h
* header is included. We can guard against that, but only if we
* detect OSX first. Hence we will force include OSX detection
* before doing any BSD detection.
*/
#include <boost/predef/os/macos.h>

#include <boost/predef/version_number.h>
#include <boost/predef/make.h>

/* tag::reference[]
= `BOOST_OS_BSD`

http://en.wikipedia.org/wiki/Berkeley_Software_Distribution[BSD] operating system.

BSD has various branch operating systems possible and each detected
individually. This detects the following variations and sets a specific
version number macro to match:

* `BOOST_OS_BSD_DRAGONFLY` http://en.wikipedia.org/wiki/DragonFly_BSD[DragonFly BSD]
* `BOOST_OS_BSD_FREE` http://en.wikipedia.org/wiki/Freebsd[FreeBSD]
*

`BOOST_OS_BSD_BSDI` http://en.wikipedia.org/wiki/BSD/OS[BSDi BSD/OS]
* `BOOST_OS_BSD_NET` http://en.wikipedia.org/wiki/Netbsd[NetBSD]
* `BOOST_OS_BSD_OPEN` http://en.wikipedia.org/wiki/Openbsd[OpenBSD]

NOTE: The general `BOOST_OS_BSD` is set in all cases to indicate some form
of BSD. If the above variants is detected the corresponding macro is also set.

[options="header"]
|===
| {predef_symbol} | {predef_version}

| `BSD` | {predef_detection}
| `+_SYSTYPE_BSD+` | {predef_detection}

| `BSD4_2` | 4.2.0
| `BSD4_3` | 4.3.0
| `BSD4_4` | 4.4.0
| `BSD` | V.R.0
|===
*/ // end::reference[]

```
#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#ifndef BOOST_OS_BSD
#define BOOST_OS_BSD BOOST_VERSION_NUMBER_NOT_AVAILABLE
#endif

#if !defined(BOOST_PREDEF_DETAIL_OS_DETECTED) && ( \
  defined(BSD) || \
  defined(_SYSTYPE_BSD)
 \
  )
#   undef BOOST_OS_BSD
#   include <sys/param.h>
#   if !defined(BOOST_OS_BSD) && defined(BSD4_4)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,4,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD4_3)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,3,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD4_2)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,2,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD)
```

```
#       define BOOST_OS_BSD BOOST_PREDEF_MAKE_10_VVRR(BSD)
#   endif
#   if !defined(BOOST_OS_BSD)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER_AVAILABLE
#   endif
#endif

#if BOOST_OS_BSD
#   define BOOST_OS_BSD_AVAILABLE
#   include <boost/predef/detail/os_detected.h>
#endif

#define BOOST_OS_BSD_NAME "BSD"

#endif

#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#include <boost/predef/detail/test.h>
BOOST_PREDEF_DECLARE_TEST(BOOST_OS_BSD,BOOST_OS_BSD_NAME)
```

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Igor Pavlov
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*
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* cpp/src/arrow/util/cpu-info.cc has a polyfill for mingw-w64 < 5

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* r/tools/autobrew and dev/tasks/homebrew-formulae/autobrew/apache-arrow.rb are based on code from the autobrew project.

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Version 1.8.0 (Lua 5.2), 2013-06-10 by Gerald Franz, eludi.net

Modified and extended 2015 by Bernhard Nortmann, https://github.com/n1tehawk/LuaXML
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> version 1.2.11, January
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       client acl type: posix_acl
tasks:
- workunit:
   clients:
     all:
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  </h3>
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   1963, 1964, 1965 Jane Doe
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   2018 Joe Blow, John Coe
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r/R/dplyr-count-tally.R (some portions)

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

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/* C LALR(1) parser skeleton written by Richard Stallman, by
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1.620 systemd 255.4-1ubuntu8.11

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1.622 systemd-hwe 255.1.6

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1.623 tcpdump 4.99.4-3ubuntu4.24.04.1

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-*- perl -*-

```
$testlist = [
   # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
   # which OpenBSD treats as DLT_LOOP.
   {
      config_unset => 'IS_OPENBSD',
      name => 'heap-overflow-1',
      input => 'heap-overflow-1.pcap',
      output => 'heap-overflow-1.out',
      args   => '-v'
   },
];
```

1;

1.624 h2 4.3.0

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Found in path(s):
*
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#

Found in path(s):
* /dirigible-database-h2-4-3-0-jar/dirigible-database-h2.properties

1.625 yarl 1.20.1

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1.626 aiorwlock 1.5.0

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```
import fs from 'fs';
import path from 'path';

import { fileURLToPath } from 'url';
import { dirname } from 'path';
```

const __filename = fileURLToPath(import.meta.url);
const __dirname = dirname(__filename);

const year = (new Date()).getFullYear();

const license = `Copyright (c) 2016-${year}, The Cytoscape Consortium.

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

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

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 /*!
 * tabbable 6.2.0
 * @license MIT, https://github.com/focus-trap/tabbable/blob/master/LICENSE
 */
```

focus-trap/dist/focus-trap.esm.js:
```
 /*!
 * focus-trap 7.6.4
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 */
#!/usr/bin/python3
# generate debian/copyright from debian/copyright.template and node_modules
# Author: Martin Pitt <mpitt@debian.org>
#         Allison Karlitskaya <allison.karlitskaya@redhat.com>

import argparse
import gzip
import os
import re
import sys
import time
from typing import Dict, Set

BASE_DIR = os.path.realpath(f'{__file__}/../..')
TEMPLATE_FILE = f'{BASE_DIR}/tools/debian/copyright.template'


own_copyright = f"Copyright (C) 2013 - {time.strftime('%Y')} Red Hat, Inc."

license_patterns = {
  # Common patterns
  r'\bMIT\b': ['MIT'],

  # https://github.com/focus-trap/focus-trap/blob/master/LICENSE
  r'\bfocus-trap\b': ['MIT'],
}

copyright_patterns = {
  # Common patterns
  r'Copyright (.*)$': [r'\1'],
  r'\(c\) (.*)$': [r'\1'],

  # https://github.com/focus-trap/focus-trap/blob/master/LICENSE
  r'\bfocus-trap\b': ['2015-2016 David Clark'],
}

used_patterns = set()
```

```
def parse_args():
  p = argparse.ArgumentParser(description='Generate debian/copyright
 file from template and node_modules')
  return p.parse_args()


def template_licenses(template):
  """Return set of existing License: short names"""

  ids = set()
  for line in template.splitlines():
     if line.startswith('License:'):
        ids.add(line.split(None, 1)[1].lower())
  return ids


def find_patterns(patterns, text):
  results = set()

  for pattern, templates in patterns.items():
     for match in re.finditer(pattern, text, re.MULTILINE):
        used_patterns.add(pattern)
        results.update(match.expand(template) for template in templates)

  return results

#
# main
#


args = parse_args()

with open(TEMPLATE_FILE, encoding='UTF-8') as f:
  template = f.read()

license_ids = template_licenses(template)

# scan dist/ bundles for third-party copyrights and licenses

dist_copyrights: Dict[str, Set[str]] = {}  # Files: dirglob  set(copyrights)
dist_licenses: Dict[str, Set[str]] = {}  # Files: dirglob  set(licenses)

for directory,
 _subdirs, files in os.walk(f'{BASE_DIR}/dist'):
  for file in files:
```

```
    if '.LEGAL.txt' not in file:
        continue

    full_filename = os.path.join(directory, file)
    directory_glob = os.path.relpath(directory, start=BASE_DIR) + '/*'

    if file.endswith('.gz'):
        with gzip.open(full_filename, 'rt') as license_file_gz:
            contents = license_file_gz.read()
    else:
        with open(full_filename, 'rt') as license_file:
            contents = license_file.read()

    for comment in contents.split('\n\n'):
        if (comment.strip() == "" or "Bundled license information:" in comment):
            continue

        licenses = find_patterns(license_patterns, comment)
        if not licenses:
            raise SystemError('Can not determine licenses of:\n%s' % comment)
        for license_id in licenses:
            if license_id.lower() not in license_ids:
                raise KeyError(f'License
{license_id} not found in {TEMPLATE_FILE}')

        # All bundles also contain our own code
        licenses.add("LGPL-2.1-or-later")

        dist_licenses.setdefault(directory_glob, set()).update(licenses)

        copyrights = find_patterns(copyright_patterns, comment)
        if not copyrights:
            raise SystemError('Did not find any copyrights in:\n%s' % comment)

        # All bundles also contain our own code
        copyrights.add(own_copyright)

        dist_copyrights.setdefault(directory_glob, set()).update(copyrights)

for pattern in set.union(set(license_patterns), set(copyright_patterns)):
  if pattern not in used_patterns:
    # We'll have no LEGAL.txt files in that dev builds
    # so of course we won't use any of the patterns
    if os.getenv('NODE_ENV') == 'development' or os.getenv('IGNORE_UNUSED_PATTERNS'):
        continue

    sys.exit(f'build-debian-copyright: Unused pattern: {pattern}')
```

```
paragraphs
 = []
for dirglob in sorted(dist_copyrights):
   paragraphs.append("Files: {0}\nCopyright: {1}\nLicense: {2}".format(
       dirglob,
       '\n '.join(sorted(dist_copyrights[dirglob])),
       ' and '.join(sorted(dist_licenses[dirglob]))))

# force UTF-8 output, even when running in C locale
for line in template.splitlines():
   if '#NPM' in line:
       sys.stdout.buffer.write('\n\n'.join(paragraphs).encode())
   else:
       sys.stdout.buffer.write(line.encode())
   sys.stdout.buffer.write(b'\n')
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upstream release tarball so that the package can be built without internet
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```

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Files: tools/install-sh
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1.650 linux-kernel 6.8.0-85.85

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

```
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*       2) skb_clone of received buffers
*    See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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{
 return (strcmp(license, "GPL") == 0

```
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  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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1.651 tiff 4.5.1+git230720-4ubuntu2.4

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1.652 wpa 2:2.10-21ubuntu0.3

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1.654 cdrkit 9:1.1.11-3.5

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1.655 network-manager 1.46.0-1ubuntu2.3

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