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3rd Party Software Used in Acronis Backup and Recover 11.5

- 1) Title of Component: ANTLR
 - a. Brief Description of component: Another tool for language recognition
 - b. License: BSD license

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c. Source Code Storage Address: <http://wwwantlr2.org/download.html>

2) Title of Component: Boost

a. Brief Description of component: Boost libraries

b. License: Boost Software License - Version 1.0 - August 17th, 2003

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c. Source Code Storage Address Storage Address:

<http://sourceforge.net/projects/boost/files/boost/1.35.0/>

3) Title of Component: CuteMouse version

a. Brief Description of component: DOS driver for Mouse

b. License: GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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6) Title of Component: LVM2

- a. Brief Description of component: userspace toolset that provide logical volume management facilities on linux
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12) Title of Component: multipath-tools

a. Brief Description of component:

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Version 2, June 1991

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13) Title of Component: MTX

a. Brief Description of component: Media Changer Tools

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```
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```

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17) Title of Component: dmraid

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```
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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 an idea of what it does.

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

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

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

signature of Ty Coon, 1 April 1989

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c. Source Code Storage Address: <http://kernel.org/>

25) Title of Component: FOX

a. Brief Description of component: a C++ based class library for building Graphical User Interfaces

b. License: GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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26) Title of Component: GNU C library

a. Brief Description of component: the library which defines the "system calls" and other basic facilities
b. License: GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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a. Brief Description of component: Utilities for managing the XFS filesystem

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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".)

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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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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 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:

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That's all there is to it!

c. Source Code Storage Address: <http://git.gnome.org/browse/glib/tree/>

29) Title of Component: sysfsutils

a. Brief Description of component: virtual filesystem in Linux kernel

b. License: GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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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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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

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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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32) Title of Component: ICU

a. Brief Description of component: International Components for Unicode

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34) Title of Component: libpng

a. Brief Description of component: the official PNG reference library

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
July 7, 2011

- a. Brief Description of component: Compression Library
- b. License: zlib license

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

- c. Source Code Storage Address: <http://www.zlib.net/>

36) Title of Component: OpenSSH

- a. Brief Description of component: OpenSSH provide communication sessions over a network and encrypts all traffic (including passwords)
- b. License: OpenSSH license

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[Tatu continues]

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- The make-ssh-known-hosts script is no longer included
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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>
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/

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c. Source Code Storage Address: <http://www.openssh.com/portable.html>

37) Title of Component: strace

- a. Brief Description of component: a system call tracer
- b. License: strace license:

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\$Id: COPYRIGHT,v 1.3 2002/03/31 18:43:00 wichert Exp \$

c. Source Code Storage Address: <http://sourceforge.net/projects/strace/>

38) Title of Component: libxml2

a. Brief Description of component: The XML C parser and toolkit of Gnome

b. License: libxml2 license

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c. Source Code Storage Address: <http://xmlsoft.org/downloads.html>

39) Title of Component: lsof

a. Brief Description of component:

b. License: lsof license

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 reason 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 versus 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 Variables 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.[123] using IBM's C Compiler
aixgcc	IBM AIX 5.[123] 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 Configure options, including dialect abbreviations.
- help

- 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.

All pre-compiled binaries on lsof.itap.purdue.edu and mirrored from it were constructed without the HASSECURITY definition.

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 AFSScript 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 AFSScript script to determine the location of AFS header files and the AFS version. Configure will not call AFSScript, 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 AFSScript 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:

<code>HASDCACHE</code>	device cache file control
<code>HASENVDC</code>	device cache file environment variable name
<code>HASPERSDC</code>	personal device cache file path format
<code>HASPERSDCPATH</code>	name of environment variable that provides an additional component of the personal device cache file path
<code>HASSYSDC</code>	system-wide device cache file path
<code>HASKERNIDCK</code>	the build-time to run-time kernel identity check
<code>HASSECURITY</code>	the security option
<code>HASNOSOCKSECURITY</code>	the open socket listing option whe <code>HASSECURITY</code> is defined
<code>WARNDDEVACCESS</code>	<code>/dev</code> (or <code>/devices</code>) warning message control
<code>WARNINGSTATE</code>	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.)

```
/*
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 * Indiana 47907. All rights reserved.
 *
 * Written by Victor A. Abell
 *
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```

- * 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.

I do support binaries I built, obtained ONLY from lsof.itap.purdue.edu. Before reporting a problem with a lsof.itap.purdue.edu binary, please verify the correctness of the signatures found in its associated CHECKSUMS file.

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.

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 include output from its -h and -v options.

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 located 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.

David O'Brien 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 Dzuber (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](ftp://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 NFS 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 Merrill, 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.

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 Dzuberá 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.

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/binaries
and
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 and [67].x
/dev/kmem-based 11.00
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>
April 10, 2006

- c. Source Code Storage Address: <http://people.freebsd.org/~abe/>
- 40) Title of Component: ncurses
 - a. Brief Description of component:
 - b. License: ncurses license

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-- \$Id: README,v 1.9 2006/04/22 22:19:37 tom Exp \$

For discussion of the package internals, see hackguide.html in the doc/html directory.

c. Source Code Storage Address: <http://ftp.gnu.org/pub/gnu/ncurses/>

41) Title of Component: PMODE/DJ

a. Brief Description of component:

b. License: PMODE/DJ license:

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c. Source Code Storage Address: <http://www.filegate.net/pdnasm/pmode307.zip>

42) Title of Component: GNU termcap library

a. Brief Description of component: Termcap is a library and data base that enables programs to use display terminals in a terminal-independent manner

b. License: GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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43) Title of Component: ulxmircpp

a. Brief Description of component: a library to call methods on a remote server

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Version 2.1, February 1999

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44) Title of Component: Qt

- a. Brief Description of component: intuitive APIs for C++ and CSS/JavaScript-like programming with Qt Quick for rapid UI creation
- b. License: GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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45) Title of Component: libmspack

a. Brief Description of component: A library for Microsoft compression formats

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46) Title of Component: Expat

a. Brief Description of component: XML parser

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47) Title of Component: libpcap

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48) Title of Component: Linux PAM

a. Brief Description of component: Pluggable Authentication Modules for Linux

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e2progs - lib/uuid:

Public include file for the UUID library

Copyright (C) 1996, 1997, 1998 Theodore Ts'o.

gen_uuid.c --- generate a DCE-compatible uuid

Copyright (C) 1996, 1997, 1998 Theodore Ts'o.

uuid.h -- private header file for uuids

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Internal routine for packing UUID's

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newlib - sprintf.c

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Encryption/Description codes:

Some codes from http://fp.gladman.plus.com/cryptography_technology/aes/ (URL verified on Nov 1st 2004), which are written by Brian Gladman.

c. Source Code Storage Address: <http://linux.ximeta.com:8000/trac/ticket/1136>

50) Title of Component: PCRE

a. Brief Description of component: The PCRE library is a set of functions that implement regular expression pattern matching using the same syntax and semantics as Perl5

b. License: PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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THE C++ WRAPPER FUNCTIONS

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c. Source Code Storage Address: <http://www.pcre.org/>

51) Title of Component: VDDK

- a. Brief Description of component: Virtual Disk Development Kit
- b. License:
- c. Source Code Storage Address:

52) Title of Component: Firebird

- a. Brief Description of component: Firebird is a relational database offering many ANSI SQL-92 features
- b. License:
- c. Source Code Storage Address: <http://www.firebirdsql.org/en/downloads/>

53) Title of Component: Microsoft sql server 2005 express edition

- a. Brief Description of component:
- b. License:
- c. Source Code Storage Address:

54) Title of Component: iptables

- a. Brief Description of component:
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- c. Source Code Storage Address: Can be found in GCC package(source of GCC: <http://gcc.gnu.org/>)
- 58) Title of Component: BFA firmware
- a. Brief Description of component: Brocade Fibre Channel HBA Firmware
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=====

c. Source Code Storage Address: <http://www.7-zip.org/sdk.html>

60) Title of Component: Gdisk

a. Brief Description of component: Tool for working with GPT from command line

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Version 2, June 1991

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62) Title of Component: EDK

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63) Title of Component: Freetype

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c. Source Code Storage Address: <http://mirror.yongbok.net/nongnu/freetype/freetype-2.1.10.tar.bz2>

64) Title of Component: GCC Runtime

a. Brief Description of component: GCC runtime required to run ABR

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a. Brief Description of component: Allows programs to natively talk to Microsoft SQL Server and Sybase databases

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Version 2.1, February 1999

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10. Title of Component: php-odbc

a. Brief Description of component: Unified drivers set of ODBC

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c. Source Code Storage Address: <http://wwwantlr2.org/download.html>

2. Title of Component: growisofs

a. Brief Description of component:

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Version 2.1, February 1999

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c. Source Code Storage Address: <http://sourceforge.net/projects/mtx/>

14. Title of Component: GRUB

a. Brief Description of component: Grand Unified Bootloader

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```
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17. Title of Component: dmraid

a. Brief Description of component: Device-mapper RAID tool and library

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```
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```

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```
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Version 2.1, February 1999

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c. Source Code Storage Address: <http://git.gnome.org/browse/glib/tree/>

28. Title of Component: sysfsutils

a. Brief Description of component: virtual filesystem in Linux kernel

b. License: GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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 - a. Brief Description of component: Compression Library
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```

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*
* Ariel Futoransky <futo@core-sdi.com>
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```

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```
* @version 3.0 (December 2000)
*
* 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>
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36. Title of Component: libxml2

a. Brief Description of component: The XML C parser and toolkit of Gnome

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37. Title of Component: lsof

a. Brief Description of component:

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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 reason 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 versus 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 Variables 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.[123] using IBM's C Compiler
aixgcc	IBM AIX 5.[123] 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 Configure options, including dialect abbreviations.
- help

- 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_BLDGMT, 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 `lsf -h` output indicates the state `HASSECURITY` and `HASNOSOCKSECURITY` had when `lsf` 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 `lsf` is compiled in the absence of the `HASSECURITY` definition, anyone who can execute `lsf` may be able to see the presence of all open files. This may allow the `lsf` user to observe open files -- e.g., log files used to track intrusions -- whose presence you would rather not disclose.

All pre-compiled binaries on `lsf.itap.purdue.edu` and mirrored from it were constructed without the `HASSECURITY` definition.

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

The `00DCACHE` file in the `lsf` 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 `lsf` 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 `lsf` may need `setgid` or `setuid-root` permission (See the `Setgid Lsf Dialects` and `Setuid-root Lsf Dialects` sections.), its security should always be viewed with skepticism. Lest the `setgid` and `setuid-root` permissions allow `lsf` to read kernel name list or memory files, declared with the `-k` and `-m` options, that the `lsf` user can't normally access, `lsf` 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.

`Lsf` 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 `lsf` implementations need to run `setuid-root`. (The `Setgid Lsf Dialects` and `Setuid-root Lsf Dialects` sections contains a list of `lsf` 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 `lsf` 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 of 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
WARNDVACCESS	/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.
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 * Permission is granted to anyone to use this software for
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 * redistribute it freely, subject to the following
 * restrictions:
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 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
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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.
 */
```


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.

I do support binaries I built, obtained ONLY from lsof.itap.purdue.edu. Before reporting a problem with a lsof.itap.purdue.edu binary, please verify the correctness of the signatures found in its associated CHECKSUMS file.

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.

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 include output from its -h and -v options.

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 located 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 `lsf` in the parent directory of `tests/`, with:

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

This is the "automatic" test mode, designed for use by scripts that build `lsf`. 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 `lsf` in the parent directory of `tests/`, with:

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

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

It's possible to run the tests, using an `lsf` 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
===

`lsf` 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 lsf revisions)
Solaris 2.6 (AFS 3.4a)
Ultrix 4.2 RISC (AFS 3.2b) (no longer available)
```

`lsf` 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 `lsf` 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 `lsf` 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.

David O'Brien 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 Dzuber (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.

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 Dzuberka 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.

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/binaries
and
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 and [67].x
- /dev/kmem-based 11.00
- 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>
April 10, 2006

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- 38. Title of Component: ncurses
 - a. Brief Description of component:
 - b. License: ncurses license

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-- \$Id: README,v 1.9 2006/04/22 22:19:37 tom Exp \$

For discussion of the package internals, see [hackguide.html](#) in the `doc/html` directory.

- c. Source Code Storage Address: <http://ftp.gnu.org/pub/gnu/ncurses/>
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one line to give the program's name and an idea of what it does.

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```
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to redistribute it under certain conditions; type `show c'
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```

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```
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```

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c. Source Code Storage Address: <http://ftp.gnu.org/gnu/termutils/>

41. Title of Component: BFA Firmware

a. Brief Description of component: Brocade Fibre Channel HBA Firmware

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42. Title of Component: Gdisk

a. Brief Description of component: Tool for working with GPT from command line

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```
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type `show w'. This is free software, and you are welcome
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```

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- c. Source Code Storage Address: <http://kernel.org/pub/linux/utils/kernel/pcmcia/pcmcia.html>
- 6. Title of Component: LVM2
 - a. Brief Description of component: userspace toolset that provide logical volume management facilities on linux
 - b. License: GNU GENERAL PUBLIC LICENSE

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7. Title of Component: Udev

a. Brief Description of component: provides a dynamic/dev directory and hooks userspace into kernel device events

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```
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```

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```
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22. Title of Component: procps

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```
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for details.
```

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```
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a. Brief Description of component: Utilities for managing the XFS filesystem

b. License: GNU LESSER GENERAL PUBLIC LICENSE

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28. Title of Component: glib

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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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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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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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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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29. Title of Component: sysfsutils

a. Brief Description of component: virtual filesystem in Linux kernel

b. License: GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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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.

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32. Title of Component: ICU

a. Brief Description of component: International Components for Unicode

b. License: MIT license

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33. Title of Component: Curl and libcurl

a. Brief Description of component: Open source LDAP (v3) for servers, clients, utilities, and development tools.

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34. Title of Component: libpng

a. Brief Description of component: the official PNG reference library

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```
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- c. Source Code Storage Address: <http://www.libpng.org/pub/png/libpng.html>
35. Title of Component: zlib
 - a. Brief Description of component: Compression library
 - b. License: zlib license

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

c. Source Code Storage Address: <http://www.zlib.net/>

36. Title of Component: OpenSSH

a. Brief Description of component: OpenSSH provide communication sessions over a network and encrypts all traffic (including passwords)

b. License: OpenSSH license

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[Tatu continues]

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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
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```
* @version 3.0 (December 2000)
*
* 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>
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37. Title of Component: strace

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\$Id: COPYRIGHT,v 1.3 2002/03/31 18:43:00 wichert Exp \$

c. Source Code Storage Address: <http://sourceforge.net/projects/strace/>

38. Title of Component: libxml2

a. Brief Description of component: The XML C parser toolkit of Gnome

b. License: libxml2 license

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with different Copyright notices) all the files are:

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c. Source Code Storage Address: <http://xmlsoft.org/downloads.html>

39. Title of Component: lsof

a. Brief Description of component:

b. License: lsof license

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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Auspex LFS (no longer maintained)
BSDI BSD/OS
DEC OSF/1, Digital UNIX, Tru64 UNIX
FreeBSD
HP-UX
IPv6
Linux
NetBSD
NEXTSTEP and OPENSTEP
OpenBSD
Pyramid DC/OSx and Reliant UNIX (no longer available)
Caldera OpenUNIX
SCO OpenServer
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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 reason 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 versus 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.[123] using IBM's C Compiler
aixgcc	IBM AIX 5.[123] 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 Configure options, including dialect abbreviations.
- help
- 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_BLDGMT, 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.

All pre-compiled binaries on `lsOF.itap.purdue.edu` and mirrored from it were constructed without the HASSECURITY definition.

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 `lsf` 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. `Lsf` 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 `lsf` 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 `lsf` 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 `lsf` 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 `lsf` user if warning messages about them are inhibited.

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

```
/dev warnings = enabled
```

If `WARNDEVACCESS` was not defined when `lsf` 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

=====

`Lsf` 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.

`Lsf` 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 `lsf` 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
WARNDVACCESS	/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.

I do support binaries I built, obtained ONLY from lsof.itap.purdue.edu. Before reporting a problem with a lsof.itap.purdue.edu binary, please verify the correctness of the signatures found in its associated CHECKSUMS file.

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.

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 include output from its -h and -v options.

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 located 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 `lsf` 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 `lsf` user to ask for the information `readx()` supplies.

`Lsf` 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 `lsf`) 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 `lsf` 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 `lsf` 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 `lsf` 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 `lsf`'s use of `readx()` if you plan to make `lsf` publicly executable. You can also restrict `-X` to processes whose real UID is root by defining `HASXOPT_ROOT`.

I have never seen `lsf` 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 `lsf` 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. `Lsf` 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.

David O'Brien 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 Dzuber (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](ftp://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 NFS 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.

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 Dzuberka 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.

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/binaries>

and

<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 and [67].x
/dev/kmem-based 11.00
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>
April 10, 2006

- c. Source Code Storage Address: [p://people.freebsd.org/~abe/](http://people.freebsd.org/~abe/)
- 40. Title of Component: ncurses
 - a. Brief Description of component:
 - b. License: ncurses license

-- Copyright (c) 1998-2000,2006 Free Software Foundation, Inc. --
-- --
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-- authorization. --

-- \$Id: README,v 1.9 2006/04/22 22:19:37 tom Exp \$

For discussion of the package internals, see [hackguide.html](#) in the doc/html directory.

c. Source Code Storage Address: <http://ftp.gnu.org/pub/gnu/ncurses/>

41. Title of Component: PMODE/DJ

a. Brief Description of component:

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c. Source Code Storage Address: <http://www.filegate.net/pdnasm/pmode307.zip>

42. Title of Component: GNU termcap library

a. Brief Description of component: Termcap is a library and data base that enables programs to use display terminals in a terminal-independent manner

b. License: GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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c. Source Code Storage Address: <http://ftp.gnu.org/gnu/termutils/>

43. Title of Component: ulxmirpcpp

a. Brief Description of component: a library to call methods on a remote server

b. License: GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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- 49. Title of Component: ndas
 - a. Brief Description of component: Network Direct Attached Storage
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e2progs - lib/uuid:

Public include file for the UUID library

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gen_uuid.c --- generate a DCE-compatible uuid

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uuid.h -- private header file for uuids

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Internal routine for packing UUID's

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newlib - sprintf.c

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Encryption/Description codes:

Some codes from http://fp.gladman.plus.com/cryptography_technology/aes/ (URL verified on Nov 1st 2004), which are written by Brian Gladman.

c. Source Code Storage Address: <http://linux.ximeta.com:8000/trac/ticket/1136>

50. Title of Component: dhcpd

a. Brief Description of component: ISC DHCP is open source software that implements the Dynamic Host Configuration Protocols for connection to a local network

b. License: Copyright (c) 2004-2011 by Internet Systems Consortium, Inc. ("ISC")

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<info@isc.org>
<https://www.isc.org/>

c. Source Code Storage Address: tp.isc.org/isc/dhcp/

51. Title of Component: PCRE

a. Brief Description of component: The PCRE library is a set of functions that implement regular expression pattern matching using the same syntax and semantics as Perl 5

b. License: PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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c. Source Code Storage Address: In VMWARE tools package

57. Title of Component: vmxnet3

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58. Title of Component: Vmblock

a. Brief Description of component: vmware blocking filesystem for linux

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

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```
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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

c. Source Code Storage Address: In VMWARE tools package

59. Title of Component: vmci

a. Brief Description of component: vmware vmci guest driver for linux

b. License: GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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```
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(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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c. Source Code Storage Address: In VMWARE tools package

60. Title of Component: vmhgfs

a. Brief Description of component: vmware host guest filesystem for linux and freebsd

b. License: GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

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61. Title of Component: vsock

a. Brief Description of component: vmci sockets module for linux

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```
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- c. Source Code Storage Address: <http://www.sqlite.org/download.html>
73. Title of Component: XSLT C library
- a. Brief Description of component: It implements most of the EXSLT set of processor-portable extensions funtions and some of Saxon's evaluate and expressions extensions
 - b. License: Licence for libxslt except libxslt

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1. Title of Component: annotate-models 1.0.4

a. Brief Description of component: Annotation of database schema in code comments

b. License:

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(_|/)/ () /(/(- / | () (/(-(_)

Add a comment summarizing the current schema to the bottom of each ActiveRecord model, Test File, Exemplar, Fixture and Factory source file:

```
# == Schema Info
# Schema version: 20081001061831
#
# Table name: line_item
#
# id          :integer(11)    not null, primary key
# order_id   :integer(11)
# product_id :integer(11)    not null
# quantity   :integer(11)    not null
# unit_price  :float

class LineItem < ActiveRecord::Base
  belongs_to :product
  . . .
```

Note that this code will blow away the initial/final comment block in your models if it looks like it was previously added by annotate models, so you don't want to add additional text to an automatically created comment block.

* * Back up your model files before using... * *

== HOW TO USE:

To annotate all your models:

```
rake db:annotate
```

To migrate & annotate:

```
rake db:update
```

Options:

Annotate on the head of the file:

```
rake db:annotate POSITION='top'
```

Annotate models in non-standard directories:

```
rake db:annotate MODEL_DIR='vendor/plugins/example_engine/app/models'
```

== LICENSE:

Original code by:

Dave Thomas
Pragmatic Programmers, LLC

Refactored, improved by

Alexander Semyonov (http://github.com/rotuka/annotate_models)
Marcos Piccinini (http://github.com/nofxx/annotate_models)
Stephen Anderson (http://github.com/bendycode/annotate_models)
Lightning Dave Bolton (http://github.com/lightningdb/annotate_models)

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c. Source Code Storage Address: <https://github.com/bhedana/annotate-models>

2. Title of Component: autotest-rails-pure 4.1.0

a. Brief Description of component: Unit test framework support for rails

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b. Source Code Storage Address: <https://github.com/grosser/autotest-rails/>

3. Title of Component: boost 1.46.1

a. Brief Description of component: set of free software libraries that extend functionality of C++

License: Boost Software License - Version 1.0 - August 17th, 2003

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- b. Source Code Storage Address: <http://www.boost.org/>
- 4. Title of Component: Boost.locale 1.52.0
 - a. Brief Description of component: Boost.locale provides
 - b. License: Boost Software License - Version 1.0 - August 17th, 2003

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- c. Source Code Storage Address:
http://www.boost.org/doc/libs/1_50_0/libs/locale/doc/html/main.html
- 5. Title of Component: cgi++
 - a. Brief Description of component: Asynchronous CGI and FastCGI efficient library built upon the Boost C++ libraries
 - b. License: Boost Software License - Version 1.0 - August 17th, 2003

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- c. Source Code Storage Address: <http://cgi.sourceforge.net/>
- 6. Title of Component: ConfigFile v2.1

- a. **Brief Description of component:** C++ class for reading configuration files
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- c. **Source Code Storage Address:** <http://www-personal.umich.edu/~wagnerr/ConfigFile.html/>
7. **Title of Component:** CReportCtrl 1.0.6
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- c. **Source Code Storage Address:** <http://www.codeproject.com>
8. **Title of Component:** `factory_girl_rails`
- a. **Brief Description of component:** Automatic object generation to support unit testing
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c. Source Code Storage Address: <http://thoughtbot.com/community/>

9. Title of Component: faker

a. Brief Description of component: Fake data generator to support unit testing

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c. Source Code Storage Address: <http://faker.rubyforge.org/>

10. Title of Component: ffi 1.0.7

a. Brief Description of component: Ruby extension for accessing DLLs

b. License: Copyright (c) 2008-2012 Ruby-FFI contributors

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c. Source Code Storage Address: <https://github.com/ffi/ffi>

11. Title of Component: Gsoap 2.8.4

a. Brief Description of component: SOAP protocol library

b. License: Under license agreement between Genivia and GroupLogic/Acronis. gSOAP includes both libraries and executables that produce source code that itself gets compiled into the code. Some of the executable-produced code has been modified by GLI

c. Source Code Storage Address: <http://www.cs.fsu.edu/~engelen/soap.html>

12. Title of Component: International Components for Unicode (ICU) 3.0

a. Brief Description of component: Unicode conversion

b. License: ICU License - ICU 1.8.1 and later

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- c. Source Code Storage Address: <http://site.icu-project.org/>
13. Title of Component: JQuery 1.5.2
- a. Brief Description of component: Javascript utility library
 - b. License: Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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- c. Source Code Storage Address: <http://jquery.com>
14. Title of Component: JQuery Colorbox v1.3.17.2
- a. Brief Description of component: JQuery plug-in to provide lightbox functionality
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- c. Source Code Storage Address: <http://jacklmoore.com/colorbox/>
- 15. Title of Component: JQuery Datepicker 1.8.16
 - a. Brief Description of component: JQuery plug-in for date selection
 - b. License: Baptiste Lepilleur <blep@users.sourceforge.net>

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- c. Source Code Storage Address: <http://docs.jquery.com/UI>
- 16. Title of Component: JQuery tablesorter 2.0.5b
 - a. Brief Description of component: A JQuery plug-in to sort HTML tables
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- c. Source Code Storage Address: <http://tablesorter.com>
- 17. Title of Component: jquery-rails 0.2.6

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- c. **Source Code Storage Address:** <https://github.com/rails/jquery-ujs>
18. **Title of Component:** jsoncpp 0.5.0
- a. **Brief Description of component:** JSON
 - b. **License:** Baptiste Lepilleur <blep@users.sourceforge.net>

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- c. **Source Code Storage Address:** <http://jsoncpp.sourceforge.net/>
19. **Title of Component:** libb64 1.2
- a. **Brief Description of component:** Base64 encoding
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c. Source Code Storage Address: <http://libb64.sourceforge.net/>

20. Title of Component: libcurl 7.23.1

a. Brief Description of component: client to get documents/files from servers

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c. Source Code Storage Address: <http://curl.haxx.se/>

21. Title of Component: libntlm 1.3

a. Brief Description of component: NTLM implementation

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Version 2.1, February 1999

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 - a. Brief Description of component: A lightweight http server
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- c. Source Code Storage Address: <http://code.google.com/p/mongoose/>
- 23. Title of Component: Net-LDAP 0.2.2
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c. Source Code Storage Address: <http://net-ldap.rubyforge.org/>

24. Title of Component: Nginx, Inc. 1.0.5

a. Brief Description of component: Web server and a reverse proxy server for HTTP, SMTP, POP3 and IMAP protocols

b. License: Copyright (C) 2002-2012 Igor Sysoev

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b.

c. Source Code Storage Address: <http://nginx.org/>

25. Title of Component: openssl 1.0.0d

a. Brief Description of component: encryption, hashing

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=====

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c. Source Code Storage Address: <http://www.openssl.org/>

26. Title of Component: parseconfig 0.5.2

a. Brief Description of component: Ruby extension to parse configuration files

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27. Title of Component: PCRE 8.02

- a. Brief Description of component: Regular expression C library inspired by Perl's external interface
- b. License: PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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29. Title of Component: plist 3.1.0

a. Brief Description of component: Ruby extension for reading and writing plist files

b. License:

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c. Source Code Storage Address: <http://plist.rubyforge.org/>

30. Title of Component: pthread

a. Brief Description of component: a POSIX standard for threads

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31. Title of Component: Rails 3.0.7

a. Brief Description of component: Web framework for management UI

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c. Source Code Storage Address: <http://rubyonrails.org/>

32. Title of Component: rspec 2.0.1

a. Brief Description of component: Unit test framework

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- c. Source Code Storage Address: <http://relishapp.com/rspec>
33. Title of Component: `rspec-rails 2.0.1`
- a. Brief Description of component: SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine
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- c. Source Code Storage Address: <https://github.com/rspec/rspec-rails/>
34. Title of Component: `Ruby 1.8.7`
- a. Brief Description of component: Programming language for management UI
 - b. License: `/_| _/_/_/ _/|/| _/_/_/ _`
`(|//)()/(//(- / |())/(-(_)`

Add a comment summarizing the current schema to the bottom of each ActiveRecord model, Test File, Exemplar, Fixture and Factory source file:

```
# == Schema Info
# Schema version: 20081001061831
#
# Table name: line_item
#
#  id                :integer(11)   not null, primary key
#  order_id          :integer(11)
#  product_id        :integer(11)   not null
#  quantity          :integer(11)   not null
#  unit_price        :float

class LineItem < ActiveRecord::Base
  belongs_to :product
  . . .
```

Note that this code will blow away the initial/final comment block in your models if it looks like it was previously added by annotate models, so you don't want to add additional text to an automatically created comment block.

* * Back up your model files before using... * *

== HOW TO USE:

To annotate all your models:

```
rake db:annotate
```

To migrate & annotate:

```
rake db:update
```

Options:

Annotate on the head of the file:

```
rake db:annotate POSITION='top'
```

Annotate models in non-standard directories:

```
rake db:annotate MODEL_DIR='vendor/plugins/example_engine/app/models'
```

== LICENSE:

Original code by:

Dave Thomas
Pragmatic Programmers, LLC

Refactored, improved by

Alexander Semyonov (http://github.com/rotuka/annotate_models)
Marcos Piccinini (http://github.com/nofxx/annotate_models)
Stephen Anderson (http://github.com/bendycode/annotate_models)
Lightning Dave Bolton (http://github.com/lightningdb/annotate_models)

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- c. Source Code Storage Address: <http://www.ruby-lang.org/en/>
35. Title of Component: sqlite 3.7.9
- a. Brief Description of component: SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine
 - b. License: Baptiste Lepilleur <blep@users.sourceforge.net>

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c. Source Code Storage Address: <http://www.sqlite.org/>

36. Title of Component: SQLite-ruby 1.3.1

a. Brief Description of component: Database integration with Ruby

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c. Source Code Storage Address: <http://rubyforge.org/projects/sqlite-ruby/>

37. Title of Component: Timesupport.cpp/h

a. Brief Description of component: Time conversion

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Version 2.0, January 2004

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38. Title of Component: tinyxmi 2.6.0

- a. Brief Description of component: XML**
- b. License: zlib license**

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

c. Source Code Storage Address: <http://www.grinninglizard.com>

39. Title of Component: `wbclient 3.5.6`

a. Brief Description of component: `Unix SMB/CIFS implementation`

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c. Source Code Storage Address: <http://www.perforce.com>

40. Title of Component: webrat 0.7.1

a. Brief Description of component: Web unit testing support framework

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- c. Source Code Storage Address: <https://github.com/brynary/webrat>
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- a. Brief Description of component: Ruby extension for supporting server-side pagination
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- c. Source Code Storage Address: <http://agilewebdevelopment.com/>
42. Title of Component: win32console 1.3.0

- a. Brief Description of component: Unit testing console support
- b. License: Add a comment summarizing the current schema to the

bottom of each ActiveRecord model, Test File, Exemplar, Fixture and Factory source file:

```
# == Schema Info
# Schema version: 20081001061831
#
# Table name: line_item
#
#  id                :integer(11)   not null, primary key
#  order_id          :integer(11)
#  product_id        :integer(11)   not null
#  quantity          :integer(11)   not null
#  unit_price        :float
#
class LineItem < ActiveRecord::Base
  belongs_to :product
  . . .
```

Note that this code will blow away the initial/final comment block in your models if it looks like it was previously added by annotate models, so you don't want to add additional text to an automatically created comment block.

```
* * Back up your model files before using... * *
```

== HOW TO USE:

To annotate all your models:

```
rake db:annotate
```

To migrate & annotate:

```
rake db:update
```

Options:

Annotate on the head of the file:

```
rake db:annotate POSITION='top'
```

Annotate models in non-standard directories:

```
rake db:annotate MODEL_DIR='vendor/plugins/example_engine/app/models'
```

== LICENSE:

Original code by:

Dave Thomas
Pragmatic Programmers, LLC

Refactored, improved by

Alexander Semyonov (http://github.com/rotuka/annotate_models)
Marcos Piccinini (http://github.com/nofxx/annotate_models)
Stephen Anderson (http://github.com/bendycode/annotate_models)
Lightning Dave Bolton (http://github.com/lightningdb/annotate_models)

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- c. Source Code Storage Address: <http://rubyforge.org/projects/win32console/>
43. Title of Component: Windows Installer XML (WiX) toolset 3.5
- a. Brief Description of component: Installer
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44. Title of Component: `yaml-cpp 0.3.0`

a. Brief Description of component: `YAML`

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c. Source Code Storage Address: <http://code.google.com/p/yaml-cpp/>

45. Title of Component: `ZenTest 4.5.0`

a. Brief Description of component: `Test scaffolding for Ruby`

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- c. Source Code Storage Address: <https://github.com/seattlerb/zentest>
46. Title of Component: zlib 1.2.5
- a. Brief Description of component: Compression library
 - b. License: zlib license

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

- c. Source Code Storage Address: <http://zlib.net/>
47. Title of Component: Lightweight Android SQLite ORM 4.33
- a. Brief Description of component: Database Abstraction
 - b. License: Open Source License

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- c. Source Code Storage Address: <http://ormlite.com/>
48. Title of Component: Jackson 1.9.3
- a. Brief Description of component: JSON parsing/generation
 - b. License: Apache License

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49. Title of Component: Commons IO 2.1

a. Brief Description of component: File System handling

b. License: Apache License

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- one advertisement or promotion,
- one podcast, or
- background music for one website,

regardless of the number of times the Work is used or Broadcast.

c. Source Code Storage Address: <http://istockphoto.com>

68. Title of Component: libb64 1.2

a. Brief Description of component: Base64 encoding

b. License: Baptiste Lepilleur <blep@users.sourceforge.net>

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c. Source Code Storage Address: <http://libb64.sourceforge.net/>

69. Title of Component: EGORrefreshTableHeader

a. Brief Description of component: Pull to refresh

b. License: Copyright 1998 by the Massachusetts Institute of Technology.

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c. Source Code Storage Address: <https://github.com/enormego/>

70. Title of Component: Readdle PDF Viewer/Annotation

a. Brief Description of component: PDF viewing & annotation

b. License: Under license agreement between GroupLogic/Acronis and RD Ukraine LLC

c. Source Code Storage Address: <http://readdle.com/>

71. Title of Component: Salesforce Mobile SDK iOS

a. Brief Description of component: Integration to salesforce.com

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c. Source Code Storage Address: <http://wiki.developerforce.com/>

72. Title of Component: SQLCipher

a. Brief Description of component: Encrypted sqlite database

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73. Title of Component: CocoaHTTPServer

a. Brief Description of component: Embedded web server

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c. Source Code Storage Address: <https://github.com/>

74. Title of Component: Good Dynamics SDK 1.0.2586

a. Brief Description of component: Good Dynamics Security Container

b. License: Under license agreement between GroupLogic/Acronis and Good Technologies

c. Source Code Storage Address: <https://begood.good.com/>

75. Title of Component: SSZipArchive 0.2.1

a. Brief Description of component: Used for ZIP/UNZIP functionality in client

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b. Source Code Storage Address: <https://github.com/samsoffes/ssziparchive>

76. Title of Component: iOS5 PBKDF2

a. Brief Description of component: Good Dynamics Security Container

b. License: \$OpenBSD: pbkdf2.c,v 1.1 2008/06/14 06:28:27 djm Exp \$

*/

/*
* This version was derived by generalizing the original code by Damien Bergamini
* for use with alternate pseudo-random functions.
*/

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c. Source Code Storage Address:

<http://opensource.apple.com/source/CommonCrypto/CommonCrypto-55010/Source/API/CommonKeyDerivation.c?txt>

77. Title of Component: minizip 1.1

a. Brief Description of component: Used as part of the SSZip Archive (GLP-1) which is used for ZIP/UNZIP functionality in the iOS client

b. License: zlib license

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Jean-loup Gailly jloup@gzip.org

Mark Adler madler@alumni.caltech.edu

c. Source Code Storage Address: <http://www.winimage.com/zLibDll/minizip.html>

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1. Title of Component: CReportCtrl 1.0.6
 - a. Brief Description of component: Grid UI control
 - b. License: File: ReportCtrl.cpp
- ```
3 // Version: 2.0.1
4 //
5 // Author: Maarten Hoeben
6 // E-mail: hamster@xs4all.nl
7 //
8 // Implementation of the CReportCtrl and associated classes.
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    - a. Brief Description of component: AppleTalk Protocol Stack
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    - c. Source Code Storage Address: Under license agreement between GroupLogic and Sand Castle Systems
  3. Title of Component: Windows Installer XML (WiX) toolset 3.5
    - a. Brief Description of component: Installer
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#### 4. Title of Component: openssl 1.0.0d

a. Brief Description of component: encryption, hashing

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a. Brief Description of Component

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- a. Brief Description of Component: a C++ based class library for building Graphical User Interfaces
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### a. Brief Description of Component

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Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
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8. Title of Component: **zlib**

a. Brief Description of Component: **Compression Library**

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9. Title of Component: **Expat**

a. Brief Description of Component: **XML parser**

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11. Title of Component: Gdisk

- a. Brief Description of Component: Tool for working with GPT from command line.
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Acronis really respects your privacy, exactly as it is declared in company privacy statements. Acronis wants you to feel secure when visiting our website and providing information to us. Acronis will only gather your personal information with your consent.

This Privacy Statement has been prepared to inform you of the information we gather and how we use it. This Privacy Statement applies to all Acronis websites and agreements that display or link to this Privacy Statement. Some information may also be collected off-line, and this Notice applies to the off-line data collection as well.

### **What we collect:**

Generally, you may visit our websites without providing any personal information or identifying yourself. We only collect customer information via the "opt-in" method, where visitors or customers must affirmatively elect to provide Acronis with their information.

In order to provide you with relevant information, respond to your requests, and increase the benefits that you receive from our website, we sometimes request that you provide us with information about yourself. Acronis requests customer information at various locations on our website, [www.acronis.com](http://www.acronis.com), including product registration areas, promotional sign-up areas, and newsletter registration areas. The type of information collected may include standard contact information such as your name, email address, postal address, telephone number, and technical or demographic information.

Our website may also collect certain information from your visit and from your behavior while visiting our website, including the date and time of your access, the pages you have accessed and the name of the Internet Service Provider and/or Internet Protocol Address by which you are accessing the Internet, and the Internet address(es) from which you linked to our website, if applicable. This information is used to better understand how our website is being used in order to improve the quality of our website, and to enable us to comply with agreements between Acronis and referring or linked websites.

### **How we use your information:**

We use this information to customize your website experience by delivering the content and information that we believe would be of interest to you. This information is also used to inform you of the latest Acronis developments, including new product releases, upgrades, special offers and other relevant information.

The information we collect is intended for Acronis business purposes only. In certain instances, we may make your information available to third parties that are providing services on our behalf. Acronis will only provide those third parties with information that is necessary for them to perform the services and who have agreed to take measures to protect your information that are at least as stringent as the measures that we take ourselves. We may also disclose your information to our business partners, for marketing and other business purposes, and as a result we or our business partners may communicate with you from time to time via email, telephone or physical mail. If at any time you tell us that you no longer wish to receive these communications, they will be halted promptly. Acronis is a global company with customers and partners in over 90 countries worldwide. Accordingly, any personal information we may collect may be used, stored and processed in the United States or in other countries where Acronis or our business partners have offices in or does business. By providing information to Acronis, you are consenting to the transfer of the information outside of your respective country to any other country throughout the world.

Acronis may disclose information that has been collected from you if we are required to do so by law or to protect the rights of Acronis, its employees or its business partners.

Certain Acronis products contain features that permit file sharing or synchronization with other users of Acronis products. If use these features, you acknowledge and agree that (i) you consent to the disclosure of the transferred information to the recipient, (ii) the transfer (and the transferred information) is in compliance with all of the terms and conditions of the Acronis Software and Services, (iii) Acronis is not responsible for the transferred content or for the complete, accurate or error-free transfer itself.

### **Removal procedures**

As all information is collected via opt-in methods, we believe all information you receive from Acronis will be relevant to your computing needs. However, if you do not wish to receive communications from Acronis, simply visit <https://www.acronis.com/my/subscriptions/> and check the **"Don't send me any messages"** option.

You can also change and/or update your profile including your contact information at <https://www.acronis.com/my/profile/>.

### **Cookies:**

www.acronis.com utilizes cookies (small amounts of data stored by your Web browser on your hard drive) to help enable us to offer you more personal and customized content and service. These cookies also allow Acronis to track usage patterns and allow us to continuously improve and manage our website and deliver content that is specific to your interests. Most Web browsers accept cookies by default, but if

you choose not to accept them, you can simply change your browser settings. If you decline to accept cookies, you may not receive the full benefits that our website has to offer.

## **Security**

Acronis strictly protects the security of your personal information and honors your choice for its intended use. We have taken steps to secure and safeguard the information that we collect online, including the use of proven and effective security solutions, including SSL. However, the internet is an open forum and data may flow across multiple networks with inferior or no security measures, and therefore information may possibly be accessed by third parties other than those you intend to access it.

## **Business Relationships:**

This website may contain links to other websites or logos from other companies. Acronis is not responsible for the privacy practices or the content on any such websites.

## **Forums:**

Portions of this website make forums and message boards available to its visitors. ANY AND ALL INFORMATION THAT IS DISCLOSED IN THESE AREAS BECOMES PUBLIC INFORMATION AND ACRONIS IS NOT OBLIGATED TO ENSURE THE PRIVACY OF THIS INFORMATION. PLEASE USE APPROPRIATE DISCRETION AND CAUTION WHEN DECIDING TO DISCLOSE ANY PERSONAL INFORMATION.

## **Contacting Acronis:**

If after reading this statement, you have any questions about Acronis' privacy statement; please submit your questions to Acronis Customer Service at <http://www.acronis.com/support>. Acronis may update or modify this privacy statement from time to time without prior notice to you, and each such update or modification becomes applicable immediately upon publication. Please review this notice often so that you can be aware of our latest policies on privacy and collection of personal information. Your continued use and visitation of the Acronis websites constitutes your consent to the provisions of this Privacy Statement, as amended from time to time.