



Utimaco Safeware

License Texts

SafeGuard[®] CryptoServer LAN 3

Imprint

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2 License Table

Packet	Version	License	Version	Used in		
				Toolchain	Build	Distribution
aufs	0	GPL	2		•	•
autoconf	2.61	GPL	2		•	
automake	1.10	GPL	2		•	
bash	3.2	GPL	2	•	•	•
binutils	2.17	GPL	2	•	•	
bison	2.3	GPL	2		•	
busybox	1.13.3	GPL	2			•
bzip2	1.0.4	BZIP2	-	•	•	•
coreutils	6.9	GPL	2	•	•	•
cpio	2.9	GPL	3		•	
cron	3.0pl1	ASIS	-		•	•
db	4.5.20	OracleDB	-		•	
dejagnu	1.4.4	GPL	2	•		
dhcp	3.1.1	BSD	-		•	•
diffutils	2.8.1	GPL	2	•	•	•
e2fsprogs	1.40.2	GPL, LGPL	2, 2		•	•
		BSD	-		•	•
ethtool	5	GPL	2		•	•
expat	2.0.1	EXPAT	-		•	
expect	5.43	PD	-	•		
file	4.21	FILE	2		•	•
findutils	4.2.31	GPL	2	•	•	•
flex	2.5.33	FLEX	-		•	
gawk	3.1.5	GPL	2	•	•	•

Packet	Version	License	Version	Used in		
				Toolchain	Build	Distribution
gcc	4.1.2	LGPL	2.1	•	•	
		GPL	2	•	•	
gettext	0.16.1	GPL	2	•	•	
glibc	2.5.1	LGPL	2.1	•	•	•
		GPL	2	•	•	•
		Other	-	•	•	•
grep	2.5.1a	GPL	2	•	•	•
groff	1.18.1.4	GPL	2		•	
grub	0.97	GPL	2		•	•
gzip	1.3.12	GPL	2	•	•	•
httpd	2.2.8	Apache License	2.0		•	
iana-etc	2.20	OSL	3		•	•
inetutils	1.5	GPL	2		•	•
iputils	20071127	Other	-			•
ipvsadm	1.24	GPL	2		•	•
joe	3.5	GPL	1		•	•
kbd	1.12	GPL	2		•	•
less	406	GPL	2		•	•
		LESS	-		•	•
lfs-bootscripts	6.3	LFS	-		•	•
libtool	1.5.24	GPL	2		•	
lighttpd	1.4.19	BSD	-		•	•
linux	2.6.26.3	GPL	2	•	•	•
linux-live	6.3.0	GPL	2			•
		GPL	2			•
logrotate	3.7.1	GPL	2		•	•
m4	1.4.10	GPL	3		•	
make	3.81	GPL	2	•	•	
mktemp	1.5	BSD	-		•	•
module-init-tools	3.2.2	GPL	2		•	•
ncurses	5.6	MIT	-	•	•	•

Packet	Version	License	Version	Used in		
				Toolchain	Build	Distribution
net-snmp	5.4.1	Others	-		•	•
net-tools	1.60	GPL	2	•	•	•
ntp	4.2.6p1	NTP	-	•	•	•
openssh	4.7p1	Other	-		•	•
openssl	0.9.8g	OPENSSL	-		•	•
patch	2.5.4	GPL	2	•	•	
pciutils	2.2.3	GPL	2		•	•
pcre	7.6	bsd	2		•	•
perl	5.8.8	Artistic	-	•	•	
php	5.2.6	PHP	3.01		•	•
popt	1.10.4	POPT	2		•	
procps	3.2.7	LGPL	2		•	•
		GPL	2	•	•	
psmisc	22.5	GPL	2		•	•
readline	5.2	GPL	2		•	•
screen	4.0.3	GPL	2		•	•
sed	4.1.5	GPL	2	•	•	•
shadow	4.0.18.1	BSD	-	•	•	
subversion	1.6.6	SUBVERSION	1		•	
swig	1.3.36	SWIG	2		•	
sysklogd	1.4.1	GPL	2		•	•
sysvinit	2.86	GPL	2		•	•
tar	1.18	GPL	3	•	•	•
tcl	8.4.15	BSD	-	•		
tcp_wrappers	7.6	TCPWRAPPER	-		•	•
texinfo	4.9	GPL	3	•		
udev	113	GPL	2		•	•
unzip	5.52	INFOZIP	-		•	•
util-linux	2.12r	GPL	2	•	•	•
		UCB	2	•	•	•
vim	71	VIM	-		•	•

Packet	Version	License	Version	Used in		
				Toolchain	Build	Distribution
zlib	1.2.3	ZLIB	2		•	•

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3.1 aufs - GPL 2

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Copyright (C) <year> <name of author>
```

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```
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```

```
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```

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```
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```

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

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```
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Version 2, June 1991
```

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```

```
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```

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```

```
<signature of Ty Coon>, 1 April 1989
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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```


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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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

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

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3.5 binutils - GPL 2

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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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3.6 bison - GPL 2

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```

```
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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

3.9 coreutils - GPL 2

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Version 2, June 1991

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```

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```

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3.11 cron - ASIS

```
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# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie          <paul@vix.com>          uunet!decwrl!vixie!paul
# */
```

```
Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie
```

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

```
Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.
```

```
$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $
```

3.12 db - OracleDB

```
/*-
 * $Id: LICENSE,v 12.4 2006/08/25 18:42:22 bostic Exp $
 */
```

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```

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```

3.13 dejagnu - GPL 2

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```

```
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3.15 diffutils - GPL 2

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Theodore Ts'o
23-June-2007

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3.17 e2fsprogs - BSD

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3.18 ethtool - GPL 2

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3.19 expat - EXPAT

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3.20 expect - PD

NOTE: ALPHA AND BETA RELEASES OF TCL/TK ARE NOT SUPPORTED!

Introduction

This is the README file for Expect, a program that performs programmed dialogue with other interactive programs. It is briefly described by its man page, expect(1). This directory contains the source and man page for Expect.

This README file covers Expect 5.38 and up. These versions of Expect work with Tcl 8.2 and up and Tk 8.2 and up. Significant changes and other news can be found in the NEWS file.

The Expect home page is: <http://expect.nist.gov>
The Expect FAQ is: <http://expect.nist.gov/FAQ.html>

Getting Started - The Preferable Way

A book on Expect is available from O'Reilly with the title "Exploring

Expect: A Tcl-Based Toolkit for Automating Interactive Applications", ISBN 1-56592-090-2.

The book is filled with detailed examples and explanations, and is a comprehensive tutorial to Expect. The book also includes a tutorial on Tcl written specifically for Expect users (so you don't have to read the Expect papers or the man pages). Exploring Expect is 602 pages.

Getting Started - The Hacker Way

While the book is the best way to learn about Expect, it is not absolutely necessary. There are man pages after all and there are numerous articles and papers on Expect. All of my own papers are in the public domain and can be received free. If you are a hacker on a tight budget, this may appeal to you. Nonetheless, I think you will find the book pays for itself very quickly. It is much more readable than the man pages, it includes well-written and explained examples, and it describes everything in the papers as a coherent whole. The concepts in the papers actually only make up a small fraction of the book.

The 1990 USENIX paper (see "Readings" below) is probably the best one for understanding Expect conceptually. The 1991 Computing Systems and the LISA IV papers provide a nice mix of examples. The only downside is, the examples in these papers don't actually work anymore - some aspects (e.g., syntax) of both Expect and Tcl have changed. The papers still make interesting reading - just don't study the examples too closely! Fortunately, most of the examples from the papers also accompany this distribution - and all of these are up to date.

For all the details, read the man page. It is long but you can get started just by skimming the sections on the following commands:

```
spawn(starts a process)
send(sends to a process)
expect(waits for output from a process)
interact(lets you interact with a process)
```

To print out the Expect man page, invoke your local troff using the -man macros, such as either of:

```
ptroff -man expect.man
ditroff -man expect.man
```

If Expect is installed, you can read the man pages using the "usual" man commands, such as "man expect". If not installed, view the man page on your screen by saying something like:

```
nroff -man expect.man | more
```

Expect uses Tcl as the underlying language for expressing things such as procedures, loops, file I/O, and arithmetic expressions. For many simple scripts, it is not necessary to learn about Tcl. Just by

studying the examples, you will learn enough Tcl to get by. But if you would like to learn more about Tcl or use it in your own applications, read the Tcl README file which provides pointers to the extensive Tcl documentation. Or read Exploring Expect. Chapter 2 of Exploring Expect is a Tcl tutorial specifically designed for Expect users.

An interactive debugger is bundled with Expect. The debugger has its own documentation that comes separately. It is listed in the Readings below. Again, it is slightly out of date. An up-to-date description of the debugger appears in Chapter 18 of Exploring Expect. This chapter also contains additional advice and tips for debugging.

You may get the feeling that the Expect documentation is somewhat scattered and disorganized. This was true prior to publication of Exploring Expect. The book contains everything you need to know, all up-to-date, and with examples of every concept. (The book contains no references to any of the Expect papers because none are necessary.)

Examples

This distribution contains many example scripts. (All of the substantive examples in the book are included.) They can be found in the example directory of this distribution. The README file in that directory briefly describes all of the example scripts. Many of the more sophisticated examples have man pages of their own.

Other interesting scripts are available separately in the directory <http://expect.nist.gov/scripts/> (ftpable as <ftp://ftp.nist.gov/mel/div826/subject/expect/scripts>). (See below for how to retrieve these.) You are welcome to send me scripts to add to this directory. A number of Expect scripts are also available in the Tcl archive, available at <ftp://ftp.neosoft.com/pub/tcl>.

Readings on Expect

The implementation, philosophy, and design are discussed in "expect: Curing Those Uncontrollable Fits of Interaction", Proceedings of the Summer 1990 USENIX Conference, Anaheim, CA, June 11-15, 1990.

Examples and discussion, specifically aimed at system administrators, are in "Using expect to Automate System Administration Tasks", Proceedings of the 1990 USENIX Large Systems Administration Conference (LISA) IV, Colorado Springs, CO, October 17-19, 1990.

A comprehensive paper of example scripts is "expect: Scripts for Controlling Interactive Programs", Computing Systems, Vol. 4, No. 2, University of California Press Journals, 1991.

Regression and conformance testing is discussed in "Regression Testing and Conformance Testing Interactive Programs", Proceedings of the Summer 1992 USENIX Conference, San Antonio, TX, June 8-12, 1992.

An explanation of some of the more interesting source code to an early version of Expect is in Chapter 36 ("Expect") of "Obfuscated C and Other Mysteries", John Wiley & Sons, ISBN 0-471-57805-3, January 1993.

A paper on connecting multiple interactive programs together using Expect is "Kibitz - Connecting Multiple Interactive Programs Together", Software - Practice & Experience, Vol. 23, No. 5, May 1993.

The debugger is discussed in "A Debugger for Tcl Applications", Proceedings of the 1993 Tcl/Tk Workshop, Berkeley, CA, June 10-11, 1993.

Using Expect with Tk is described in the paper "X Wrappers for Non-Graphic Interactive Programs", Proceedings of Xhibition '94, San Jose, CA, June 20-24, 1994.

Simple techniques to allow secure handling of passwords in background processes are covered in "Handling Passwords with Security and Reliability in Background Processes", Proceedings of the 1994 USENIX LISA VIII Conference, San Diego, CA, September 19-23, 1994.

More publications can be found in the Expect home page (see elsewhere).

How to Get the Latest Version of Expect or the Readings

Expect may be ftp'd as mel/div826/subject/expect/expect.tar.gz from expect.nist.gov. (Yes, the URL is much shorter: <http://expect.nist.gov/expect.tar.Z>) Request email delivery by mailing to "library@cme.nist.gov". The contents of the message should be (no subject line) "send pub/expect/expect.tar.Z".

Once you have retrieved the system, read the INSTALL file. The papers mentioned above can be retrieved separately (from the same directories listed above) as:

doc/seminal.ps.Z	(USENIX '90 - Intro and Implementation)
doc/sysadm.ps.Z	(LISA '90 - System Administration)
doc/scripts.ps.Z	(Comp. Systems '91 - Overview of Scripts)
doc/regress.ps.Z	(USENIX '92 - Testing)
doc/kibitz.ps.Z	(SP&E '93 - Automating Multiple Interactive Programs Simultaneously)
doc/tcl-debug.ps.Z	(Tcl/Tk '93 - Tcl/Tk Debugger)
doc/expecttk.ps.Z	(Xhibition '94 - Using Expect with Tk)
doc/bgpasswd.ps.Z	(LISA '94 - Passwds in Background Procs)
doc/chargraph.ps.Z	(SP&E '96 - Testing and Automation of Character Graphic Applications)

The book "Exploring Expect" is described in more detail earlier in this file.

The book "Obfuscated C and Other Mysteries" is not on-line but is available in bookstores or directly from the publisher (Wiley).

Overhead transparencies I've used at conferences are also available in the same way as the papers themselves. The transparencies are sketchy and not meant for personal education - however if you are familiar with Expect and just want to give a short talk on it to your colleagues, you may find the transparencies useful. They vary in length from 15 to 20 minutes in length. These are:

```
doc/seminal-talk.ps.Z      (USENIX '90 - Intro and Implementation)
doc/sysadm-talk.ps.Z       (LISA '90 - System Administration)
doc/regress-talk.ps.Z      (USENIX '92 - Testing)
doc/tcl-debug-talk.ps.Z    (Tcl/Tk '93 - Tcl/Tk Debugger)
doc/expectk-talk.ps.Z      (Xhibition '94 - Expect + Tk = Expectk)
doc/bgpasswd-talk.ps.Z     (LISA '94 - Passwords in the Background)
```

All of the documents are compressed PostScript files and should be uncompressed and sent to a PostScript printer. The documents are intended for printing at 8.5"x11" and may fail on some ISO A4 printers. According to Hans Mayer <Hans.Mayer@gmd.de>, you can make them A4-able by searching for "FMVERSION" and changing the next line from:

```
1 1 0 0 612 792 0 1 13 FMDOCUMENT
to:
1 1 0 0 594 841 0 1 13 FMDOCUMENT
```

Using Expect with and without Tcl and/or Tk.

The usual way of using Expect is as a standalone program with Tcl as the control language. Since you may already have Tcl, it is available separately. Tcl may be retrieved as tcl.tar.Z in the same way as described above for Expect. When new releases of Tcl appear, I will try to check them out for Expect as soon as possible. If you would like to get the newest Tcl release without waiting, ftp it from ftp.scripts.com (directory pub/tcl).

Expect may also be built using the Tk library, a Tcl interface to the X Window System. Tk is available in the same way as Tcl.

It is possible to embed the Expect/Tcl core and optionally Tk in your own C programs. This is described in libexpect(3).

Expect can also be used from a C or C++ program without Tcl. This is described in libexpect(3). While I consider this library to be easy to use, the standalone Expect program is much, much easier to use than working with the C compiler and its usual edit, compile, debug cycle. Unlike typical programming, most of the debugging isn't getting the C compiler to accept your programs - rather, it is getting the dialogue correct. Also, translating scripts from Expect to C is usually not necessary. For example, the speed of interactive dialogues is virtually never an issue. So please try 'expect' first. It is a more appropriate tool than the library for most people.

Systems Supported

I do not know of any UNIX systems on which Expect will not run. Systems which do not support select or poll can use Expect, but without the ability to run multiple processes simultaneously. I am willing to work with you to complete a port.

Before sending me changes, please download or verify that you have the latest version of Expect (see above). Then send me a "diff -c" along with a suitable English explanation. If your diff involves something specific to a machine, give me diffs for configure.in as well or give me a hint about when the diffs should be done so I can write the configure support myself. Also please include the version of the OS and whether it is beta, current, recent, or totally out-of-date and unsupported.

Installing Expect

Expect comes with a configure script that provides for an automated installation. I believe you will find that Expect is very easy to install. (Tcl and Tk, too.)

For more information, read the INSTALL file.

Support from Don Libes or NIST

Although I can't promise anything in the way of support, I'd be interested to hear about your experiences using it (good or bad). I'm also interested in hearing bug reports and suggestions for improvement even though I can't promise to implement them.

If you send me a bug, fix, or question, include the version of Expect (as reported by `expect -d`), version of Tcl, and name and version of the OS that you are using. Before sending mail, it may be helpful to verify that your problem still exists in the latest version. You can check on the current release and whether it addresses your problems by retrieving the latest HISTORY file (see "History" above).

Awards, love letters, and bug reports may be sent to:

Don Libes
National Institute of Standards and Technology
Bldg 220, Rm A-127
Gaithersburg, MD 20899
(301) 975-3535
libes@nist.gov

I hereby place this software in the public domain. NIST and I would appreciate credit if this program or parts of it are used.

Design and implementation of this program was funded primarily by myself. Funding contributors include the NIST Automated Manufacturing Research Facility (funded by the Navy Manufacturing Technology Program), the NIST Scientific and Technical Research Services, the ARPA Persistent Object Bases project and the Computer-aided Acquisition and the Logistic Support (CALS) program of the Office of the Secretary of Defense.

Especially significant contributions were made by John Ousterhout, Henry Spencer, and Rob Savoye. See the HISTORY file for others.

Commercial Support, Classes

Several companies provide commercial support for Expect. If your company has a financial investment in Expect or you wish to be assured of continuing support for Expect, you can buy a support contract this way. These companies currently include:

Cygnus Support
1937 Landings Drive
Mountain View, CA 94043
+1 (415) 903-1400
info@cygnus.com
<http://www.cygnus.com>

Computerized Processes Unlimited (CPU)
4200 S. I-10 Service Rd., Suite 205
Metairie, LA 70006
+1 (504) 889-2784
info@cpu.com
<http://www.cpu.com>
<http://www.cpu.com/cpu/expect.htm> (Expect class page)

CPU provides Expect support and also Expect classes. Contact them for more information.

Neither NIST nor I have any financial relationship with these companies. Please contact me to be added to this list.

3.21 file - FILE 2

```
$File: LEGAL.NOTICE,v 1.15 2006/05/03 18:48:33 christos Exp $  
Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994, 1995.  
Software written by Ian F. Darwin and others;  
maintained 1994- Christos Zoulas.
```

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3.22 findutils - GPL 2

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Version 2, June 1991

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

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

Gnomovision version 69, Copyright (C) year name of author

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

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

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

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

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

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3.23 flex - FLEX

This is flex, the fast lexical analyzer generator.

flex is a tool for generating scanners: programs which recognize lexical patterns in text.

More information about flex as well as the latest official release of flex can be found at:

<http://flex.sourceforge.net/>

Of particular interest is the mailing list flex-announce@lists.sourceforge.net as that is where posts will be made announcing new releases of flex.

Note that flex is distributed under a copyright very similar to that of BSD Unix, and not under the GNU General Public License (GPL).

This file is part of flex.

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The flex distribution contains the following files which may be of interest:

README - This file.

NEWS - current version number and list of user-visible changes.

INSTALL - basic installation information.

ABOUT-NLS - description of internationalization support in flex.

COPYING - flex's copyright and license.

doc/ - user documentation.

examples/ - containing examples of some possible flex scanners and a few other things. See the file examples/README for more details.

TODO - outstanding bug reports, desired features, etc.

tests/ - regression tests. See TESTS/README for details.

po/ - internationalization support files.

3.24 gawk - GPL 2

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3.26 gcc - GPL 2

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```
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```
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3.28 glibc - LGPL 2.1

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3.29 glibc - GPL 2

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3.30 glibc - Other

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3.32 groff - GPL 2

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```
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```

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3.33 grub - GPL 2

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```
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```
<signature of Ty Coon>, 1 April 1989
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3.34 gzip - GPL 2

```
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```
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* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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```

```
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For the srclib\apr-util\test\testdbm.c component:

```
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```

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```

For the srclib\apr-util\xml\expat\conf\tools\install-sh component:

```
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
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```

For the srclib\pcre\install-sh component:

```
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For the pcre component:

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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
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For the test\zb.c component:

```
/*                      ZeusBench V1.01
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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3.36 iana-etc - OSL 3

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3.37 inetutils - GPL 2

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

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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3.38 iputils - Other

```
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 */

/*
 * P I N G . C
 *
 * Using the InterNet Control Message Protocol (ICMP) "ECHO" facility,
 * measure round-trip-delays and packet loss across network paths.
 *
 * Author -
 * Mike Muuss
 * U. S. Army Ballistic Research Laboratory
```

```
*   December, 1983
*
*   Status -
*   Public Domain.  Distribution Unlimited.
*   Bugs -
*   More statistics could always be gathered.
*   This program has to run SUID to ROOT to access the ICMP socket.
*/
```

3.39 ipvsadm - GPL 2

ipvsadm - Version 1.20 - 18th September 2001

This is free software. See below for details.

ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.9.7 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:

<http://www.LinuxVirtualServer.org/>

or

<http://www.Linux-VS.org/>

for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type make in the source directory.

Install to your liking. We suggest the following pathnames:

/sbin/ipvsadm

/sbin/ipvsadm-save

/sbin/ipvsadm-restore

/usr/man/man8/ipvsadm.8

/usr/man/man8/ipvsadm-save.8

/usr/man/man8/ipvsadm-restore.8

/etc/rc.d/init.d/ipvsadm

This will be done automatically when calling make install

in the source directory.

Wensong Zhang <wensong@linuxvirtualserver.org>

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3.40 joe - GPL 1

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

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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 1, or (at your option)
```

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

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

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

That's all there is to it!

3.41 kbd - GPL 2

The file
kbdrate.c
is Copyright (C) 1992 Rickard E. Faith.

The files
dumpkeys.c loadkeys.y analyze.1 ksyms.c ksyms.h
showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1
are Copyright (C) 1993 Risto Kankkunen.

The files
setfont.c setfont.8 mapscrn.c mapscrn.8
(and changes to loadkeys.y)
are Copyright (C) 1993 Eugene G. Crosser.

The files
psfaddtable.1 psfgettext.1 psfstriptable.1
are Copyright (C) 1994 H. Peter Anvin.

The files
chvt.c clrunimap.c deallocvt.c fgconsole.c findfile.c
getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c
psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 deallocvt.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
kbd.FAQ.*
(and changes to earlier mentioned programs)
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option any later version - except possibly for the restrictions
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3.42 less - GPL 2

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```

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```

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```
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```

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

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3.43 less - LESS

```
Less License
-----
```

```
Less
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3.44 lfs-bootscripts - LFS

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3.45 libtool - GPL 2

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```

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```

```
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Ty Coon, President of Vice
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3.54 module-init-tools - GPL 2

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```

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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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3.55 ncurses - MIT

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-- authorization.
--
-----
-- $Id: README,v 1.23 2006/04/22 22:19:37 tom Exp $
-----

README file for the ncurses package

See the file ANNOUNCE for a summary of ncurses features and ports.
See the file INSTALL for instructions on how to build and install ncurses.
See the file NEWS for a release history and bug-fix notes.
See the file TO-DO for things that still need doing, including known bugs.

Browse the file misc/ncurses-intro.html for narrative descriptions of how
to use ncurses and the panel, menu, and form libraries.

Browse the file doc/html/hackguide.html for a tour of the package internals.

ROADMAP AND PACKAGE OVERVIEW:

You should be reading this file in a directory called:  ncurses-d.d, where d.d
is the current version number (see the dist.mk file in this directory for
that).  There should be a number of subdirectories, including 'c++', 'form',
'man', 'menu', 'misc', 'ncurses', 'panel', 'progs', 'test', 'tack' and 'Ada95'.
```


(The 'tack' program may be distributed separately).

A full build/install of this package typically installs several libraries, a handful of utilities, and a database hierarchy. Here is an inventory of the pieces:

The libraries are:

libncurses.a	(normal)
libncurses.so	(shared)
libncurses_g.a	(debug and trace code enabled)
libncurses_p.a	(profiling enabled)
libpanel.a	(normal)
libpanel.so	(shared)
libpanel_g.a	(debug and trace code enabled)
libmenu.a	(normal)
libmenu.so	(shared)
libmenu_g.a	(debug enabled)
libform.a	(normal)
libform.so	(shared)
libform_g.a	(debug enabled)

If you configure using the `--enable-widex` option, a "w" is appended to the library names (e.g., `libncursesw.a`), and the resulting libraries support wide-characters, e.g., via a UTF-8 locale. The corresponding header files are compatible with the non-wide-character configuration; wide-character features are provided by `ifdef's` in the header files. The wide-character library interfaces are not binary-compatible with the non-wide-character version.

The ncurses libraries implement the curses API. The panel, menu and forms libraries implement clones of the SVr4 panel, menu and forms APIs. The source code for these lives in the 'ncurses', 'panel', 'menu', and 'form' directories respectively.

In the 'c++' directory, you'll find code that defines an interface to the curses, forms, menus and panels library packaged as C++ classes, and a demo program in to test it. These class definition modules are not installed by the 'make install.libs' rule as `libncurses++`.

In the 'Ada95' directory, you'll find code and documentation for an Ada95 binding of the curses API, to be used with the GNAT compiler. This binding is built by a normal top-level 'make' if configure detects an usable version of GNAT (3.11 or above). It is not installed automatically. See the Ada95 directory for more build and installation instructions and for documentation of the binding.

To do its job, the ncurses code needs your terminal type to be set in the environment variable TERM (normally set by your OS; under UNIX, `getty(1)` typically does this, but you can override it in your `.profile`); and, it needs a database of terminal descriptions in which to look up your terminal type's capabilities.

In older (V7/BSD) versions of curses, the database was a flat text file, `/etc/termcap`; in newer (USG/USL) versions, the database is a hierarchy of fast-loading binary description blocks under `/usr/lib/terminfo`. These binary blocks are compiled from an improved editable text representation called 'terminfo' format (documented in `man/terminfo.5`). The ncurses library can use either `/etc/termcap` or the compiled binary terminfo blocks, but prefers the second form.

In the 'misc' directory, there is a text file `terminfo.src`, in editable terminfo format, which can be used to generate the terminfo binaries (that's what `install.data` does). If the package was built with the `--enable-termcap` option enabled, and the ncurses library cannot find a terminfo description for your terminal, it will fall back to the termcap file supplied with your system (which the ncurses package installation leaves strictly alone).

The utilities are as follows:

```
tic          -- terminfo source to binary compiler
infocmp      -- terminfo binary to source decompiler/comparator
clear        -- emits clear-screen for current terminal
tput         -- shell-script access to terminal capabilities.
toe          -- table of entries utility
tset         -- terminal-initialization utility
```

The first two (`tic` and `infocmp`) are used for manipulating terminfo descriptions; the next two (`clear` and `tput`) are for use in shell scripts. The last (`tset`) is provided for 4.4BSD compatibility. The source code for all of these lives in the 'progs' directory.

Detailed documentation for all libraries and utilities can be found in the 'man' and 'doc' directories. An HTML introduction to ncurses, panels, and menus programming lives in the 'doc/html' directory. Manpages in HTML format are under 'doc/html/man'.

The 'test' directory contains programs that can be used to verify or demonstrate the functions of the ncurses libraries. See `test/README` for descriptions of these programs. Notably, the 'ncurses' utility is designed to help you systematically exercise the library functions.

AUTHORS:

Pavel Curtis:
wrote the original ncurses

Zeyd M. Ben-Halim:
port of original to Linux and many enhancements.

Thomas Dickey (maintainer for 1.9.9g through 4.1, resuming with FSF's 5.0):
configuration scripts, porting, mods to adhere to XSI Curses in the areas of background color, terminal modes. Also memory leak testing, the `wresize`, default colors and key definition extensions and numerous bug fixes (more than half of those enumerated in NEWS beginning with the internal release 1.8.9).

Florian La Roche (official maintainer for FSF's ncurses 4.2)

Beginning with release 4.2, ncurses is distributed under an MIT-style license.

Eric S. Raymond:

the man pages, infocmp(1), tput(1), clear(1), captinfo(1), tset(1), toe(1), most of tic(1), trace levels, the HTML intro, wgetnstr() and many other entry points, the cursor-movement optimization, the scroll-pack optimizer for vertical motions, the mouse interface and xterm mouse support, and the ncurses test program.

Juergen Pfeifer

The menu and form libraries, C++ bindings for ncurses, menus, forms and panels, as well as the Ada95 binding. Ongoing support for panel.

CONTRIBUTORS:

Alexander V. Lukyanov

for numerous fixes and improvements to the optimization logic.

David MacKenzie

for first-class bug-chasing and methodical testing.

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for the code that hacks termcap parameterized strings into terminfo.

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for lessons in using sed.

Keith Bostic (maintainer of 4.4BSD curses)

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Richard Stallman,

for his commitment to making ncurses free software.

Countless other people have contributed by reporting bugs, sending fixes, suggesting improvements, and generally whining about ncurses :-)

BUGS:

See the INSTALL file for bug and developer-list addresses.

The Hacker's Guide in the doc directory includes some guidelines on how to report bugs in ways that will get them fixed most quickly.

3.56 net-snmp - Others

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3.57 net-tools - GPL 2

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3.58 ntp - NTP

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32. [35]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
33. [36]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
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35. [38]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
36. [39]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
37. [40]Tom Moore <tmoore@fievell.daytonoh.ncr.com> i386 svr4 port
38. [41]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
39. [42]Derek Mulcahy <derek@toybox.demon.co.uk> and [43]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
40. [44]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance

41. [45]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
 42. [46]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
 43. [47]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
 44. [48]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
 45. [49]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
 46. [50]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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 48. [52]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 49. [53]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
 50. [54]Kenneth Stone <ken@sdd.hp.com> HP-UX port
 51. [55]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
 52. [56]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
 53. [57]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 54. [58]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
-

References

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

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

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

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3.62 pciutils - GPL 2

This package contains the PCI Utilities, version 2.2.3.

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1. What's that?

~~~~~

The PCI Utilities package contains a library for portable access to PCI bus configuration registers and several utilities based on this library.

Currently, pciutils work on all versions of Linux and they also have somewhat experimental support for FreeBSD, NetBSD, AIX, GNU Hurd and Solaris/x86. It should be very easy to add support for other systems as well (volunteers wanted; if you want to try that, I'll be very glad to see the patches and include them in the next version).

The utilities include: (See manual pages for more details)

- lspci: displays detailed information about all PCI buses and devices.
- setpci: allows to read from and write to PCI device configuration registers. For example, you can adjust the latency timers with it. CAUTION: There is a couple of dangerous points and caveats, please read the manual page first!
- update-pciids: download the current version of the pci.ids file.

### 2. Compiling and (un)installing

~~~~~

Just run "make" to compile the package and then "make install" to install it.

If you want to change the default installation location, please override the ROOT and PREFIX variables specified in the Makefile -- e.g., you can use "make PREFIX=/opt/pciutils ROOT=/opt/pciutils install" to create a separate installation not interfering with the rest of your system.

When you are bored of dumping PCI registers, just use "make uninstall".

3. Getting new ID's

~~~~~

The database of PCI ID's (the pci.ids file) gets out of date much faster than I release new versions of this package.

If you are missing names for any of your devices or you just want to stay on the bleeding edge, download the most recent pci.ids file from



<http://pciids.sf.net/> (e.g., by running the `update-ids` utility).

If your devices still appear as unknown, please send us their ID's and names, the detailed instructions for submissions are listed on the [sf.net](http://pciids.sf.net/) web page.

#### 4. Available access methods

~~~~~

The library (and therefore all the utilities) know a variety of methods for accessing the PCI registers. Here is a list of them, sorted by autodetection priority:

```
/proc/bus/pcion all Linux systems since kernel 2.1.82.
/sys/bus/pcion all Linux systems since kernel 2.5.xx.
direct port accesson i386 systems running Linux, GNU Hurd or Solaris/x86;
available only to root, useful if no other access
method is available or you want to hunt kernel bugs
/dev/pciused on FreeBSD
lsdev + odmgetused on AIX
libpciused on NetBSD
dumpsreading of dumps produced by 'lspci -x'
(this one is not autodetected)
```

5. Using the library

~~~~~

There is still no documentation for the library, if you want to use it in your programs, please follow the comments in `lib/pci.h` and in the example program `lib/example.c`.

#### 6. Feedback

~~~~~

If you have any bug reports or suggestions, send them to the author.

If you have any new ID's, I'll be very glad to add them to the database, but please take a look at <http://pciids.sf.net/> first and follow the instructions.

If you want, subscribe to `linux-pci@atrey.karlin.mff.cuni.cz` (send "subscribe linux-pci" to `majordomo@atrey.karlin.mff.cuni.cz`). Release notes about new versions will be send to the list and problems with the Linux PCI support will be probably discussed there, too.

7. Miscellanea

~~~~~

You also might want to look at the `pciutils` web page containing release notes and other news: <http://atrey.karlin.mff.cuni.cz/~mj/pciutils.shtml> .

There also exists a utility called `PowerTweak` which is able to fine tune parameters of many chipsets much better than the Bridge Optimization code in Linux kernel (already removed in 2.3.x). See <http://powertweak.sf.net/> for more information.

Have fun

Martin

## 3.63 pcre - bsd 2

### PCRE LICENCE

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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.

Release 7 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.

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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End

### 3.64 perl - Artistic

Perl Kit, Version 5

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Perl is a language that combines some of the features of C, sed, awk and shell. See the manual page for more hype. There are also many Perl books available, covering a wide variety of topics, from various publishers. See `pod/perlbook.pod` for more information.

Please read all the directions below before you proceed any further, and then follow them carefully.

#### Installation

- 1) Detailed instructions are in the file "INSTALL", which you should read if you are either installing on a system resembling Unix or porting perl to another platform. For non-Unix platforms, see the corresponding README.
- 2) Read the manual entries before running perl.
- 3) IMPORTANT! Help save the world! Communicate any problems and suggested patches to `perlbug@perl.org` so we can keep the world in sync. If you have a problem, there's someone else out there who either has had or will have the same problem. See the section on "Reporting Problems" in the INSTALL file.

The latest versions of perl are always available on the various CPAN (Comprehensive Perl Archive Network) sites around the world. See <http://www.cpan.org/src/> .

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The author.

## 3.65 php - PHP 3.01

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The PHP License, version 3.01

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PHP includes the Zend Engine, freely available at [<http://www.zend.com>](http://www.zend.com).

## 3.66 popt - POPT 2

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## 3.67 procps - LGPL 2

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```
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```

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```
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```

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

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

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## 3.72 sed - GPL 2

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```

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```
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```

```
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## 3.74 subversion - SUBVERSION 1

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```
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```

```
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Ty Coon, President of Vice
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### 3.78 tar - GPL 3

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

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### 3.84 util-linux - GPL 2

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

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

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

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

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

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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### 3.85 util-linux - UCB 2



```
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 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
```

## 3.86 vim - VIM

README.txt for version 7.1 of Vim: Vi IMproved.

### WHAT IS VIM

Vim is an almost compatible version of the UNIX editor Vi. Many new features have been added: multi-level undo, syntax highlighting, command line history, on-line help, spell checking, filename completion, block operations, etc. There is also a Graphical User Interface (GUI) available. See "runtime/doc/vi\_diff.txt" for differences with Vi.

This editor is very useful for editing programs and other plain ASCII files. All commands are given with normal keyboard characters, so those who can type with ten fingers can work very fast. Additionally, function keys can be defined by the user, and the mouse can be used.

Vim currently runs under Amiga DOS, MS-DOS, MS-Windows 95/98/Me/NT/2000/XP, Atari MiNT, Macintosh, BeOS, VMS, RISC OS, OS/2 and almost all flavours of UNIX. Porting to other systems should not be very difficult.



## DISTRIBUTION

There are separate distributions for Unix, PC, Amiga and some other systems. This README.txt file comes with the runtime archive. It includes the documentation, syntax files and other files that are used at runtime. To run Vim you must get either one of the binary archives or a source archive. Which one you need depends on the system you want to run it on and whether you want or must compile it yourself. Check "<http://www.vim.org/download.php>" for an overview of currently available distributions.

## DOCUMENTATION

The best is to use `":help"` in Vim. If you don't have an executable yet, read `"runtime/doc/help.txt"`. It contains pointers to the other documentation files. The User Manual reads like a book and is recommended to learn to use Vim. See `":help user-manual"`.

The vim tutor is a one hour training course for beginners. Mostly it can be started as `"vimtutor"`. See `":help tutor"` for more information.

## COPYING

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation to orphans in Uganda. Please read the file `"runtime/doc/uganda.txt"` for details (do `":help uganda"` inside Vim).

Summary of the license: There are no restrictions on using or distributing an unmodified copy of Vim. Parts of Vim may also be distributed, but the license text must always be included. For modified versions a few restrictions apply. The license is GPL compatible, you may compile Vim with GPL libraries and distribute it.

## SPONSORING

Fixing bugs and adding new features takes a lot of time and effort. To show your appreciation for the work and motivate Bram and others to continue working on Vim please send a donation.

Since Bram is back to a paid job the money will now be used to help children in Uganda. See `runtime/doc/uganda.txt`. But at the same time donations increase Bram's motivation to keep working on Vim!

For the most recent information about sponsoring look on the Vim web site:

<http://www.vim.org/sponsor/>

## COMPILING

If you obtained a binary distribution you don't need to compile Vim. If you obtained a source distribution, all the stuff for compiling Vim is in the `"src"` directory. See `src/INSTALL` for instructions.

## INSTALLATION

See one of these files for system-specific instructions:

README\_ami.txtAmiga  
README\_unix.txtUnix  
README\_dos.txtMS-DOS and MS-Windows  
README\_os2.txtOS/2  
README\_mac.txtMacintosh  
README\_vms.txtVMS

## INFORMATION

The latest news about Vim can be found on the Vim home page:  
<http://www.vim.org/>

If you have problems, have a look at the Vim FAQ:  
<http://vimdoc.sf.net/vimfaq.html>

Send bug reports to:  
Bram Moolenaar <Bram@vim.org>

There are five mailing lists for Vim:

<vim@vim.org>

For discussions about using existing versions of Vim: Useful mappings, questions, answers, where to get a specific version, etc.

<vim-dev@vim.org>

For discussions about changing Vim: New features, porting, beta-test versions, etc.

<vim-announce@vim.org>

Announcements about new versions of Vim; also beta-test versions and ports to different systems.

<vim-multibyte@vim.org>

For discussions about using and improving the multi-byte aspects of Vim: XIM, Hangul, fontset, etc.

<vim-mac@vim.org>

For discussions about using and improving Vim on the Macintosh.

For more info and URLs of the archives see "<http://www.vim.org/maillist.php>".

### NOTE:

- You can only send messages to these lists if you have subscribed!
- You need to send the messages from the same location as where you subscribed from (to avoid spam mail).
- Maximum message size is 40000 characters.

If you want to join a maillist, send a message to

<vim-help@vim.org>

Make sure that your "From:" address is correct. Then the list server will send you a help message.

## MAIN AUTHOR

Send any other comments, patches, pizza and suggestions to:

Bram MoolenaarE-mail:Bram@vim.org  
Molenstraat 2  
2161 HP Lisse  
The Netherlands

This is the address of my parents, they will forward mail and eat the pizza.  
My actual address will change a couple of times in 2006.

## 3.87 zlib - ZLIB 2

### ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.3 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format). These documents are also available in other formats from <ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html>

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `example.c` which also tests that the library is working correctly. Another example is given in the file `minigzip.c`. The compression library itself is composed of all source files except `example.c` and `minigzip.c`.

To compile all files and run the test program, follow the instructions given at the top of `Makefile`. In short "make test; make install" should work for most machines. For Unix: `./configure; make test; make install`. For MSDOS, use one of the special makefiles such as `Makefile.msc`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://www.zlib.org> or <http://www.gzip.org/zlib/> Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs' Journal; a copy of the article is available in <http://dogma.net/markn/articles/zlibtool/zlibtool.htm>

The changes made in version 1.2.3 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit <http://java.sun.com/j2se/1.4.2/docs/api/java/util/zip/package-summary.html> See the zlib home page <http://www.zlib.org> for details.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is in the CPAN (Comprehensive Perl Archive Network) sites

<http://www.cpan.org/modules/by-module/Compress/>

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://www.python.org/doc/lib/module-zlib.html>

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is available at [http://www.oche.de/~akupries/soft/trf/trf\\_zip.html](http://www.oche.de/~akupries/soft/trf/trf_zip.html)

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzopen is not supported on RISCOS, BEOS and by some Mac compilers.
- For PalmOS, see <http://palmzlib.sourceforge.net/>
- When building a shared, i.e. dynamic library on Mac OS X, the library must be installed before testing (do "make install" before "make test"), since the library location is specified in the library.

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly  
jloup@gzip.org

Mark Adler  
madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Utimaco Safeware AG, Germany

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