




 pciutils


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 About

 Code

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 gollux	Released as v3.13.0	7c5bf91 · 2 days ago	
 compat	compat/getopt: Fix comp...	3 years ago	
 lib	Released as v3.13.0	2 days ago	
 lmr	pcilmr: Fix margining for ...	5 days ago	
 maint	maint/README: Use rele...	2 months ago	
 tests	ls-ecaps: Correct the link ...	2 months ago	
 .gitignore	Gitignore: Add pcilmr	4 months ago	
 COPYING	Added a copy of the GPL....	15 years ago	
 ChangeLog	Released as v3.13.0	2 days ago	
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 README	README: Update copyrig...	4 months ago	
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The PCI Utilities

-  Readme
-  GPL-2.0 license
-  Activity
-  Custom properties
-  476 stars
-  38 watching
-  250 forks
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Releases

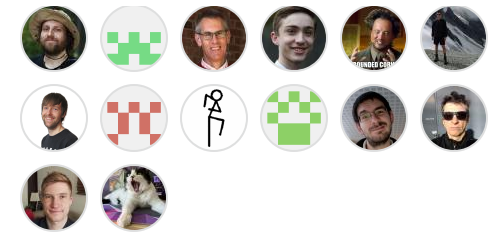
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Packages

No packages published

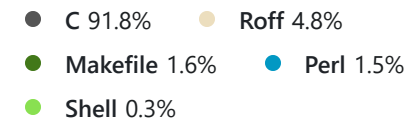
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 TODO	Library: Handle domains i...	4 years ago
 bitops.h	bitops.h moved to root	4 months ago
 common.c	Update license comment...	last year
 example.c	Coding style cleanup: `for...	16 years ago
 ls-caps-vendor.c	lspci: Use mangled vendo...	last year
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 ls-ecaps.c	ls-ecaps: extend decode ...	2 months ago
 ls-kernel.c	Update license comment...	last year
 ls-map.c	Update license comment...	last year
 ls-tree.c	Update license comment...	last year
 ls-vpd.c	Update license comment...	last year
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 pcilib.man	Merge branch 'amiga'	4 months ago
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Languages



 pcilmr.man	pcilmr.man: Fix whitespac...	5 days ago
 pciutils.h	pcilmr: Fix compilation fo...	4 months ago
 pciutils.lsm	pciutils.lsm: metalab.unc...	2 years ago
 pciutils.spec	Switched to a new primar...	5 years ago
 setpci.c	ls-ecaps: Add decode su...	4 months ago
 setpci.man	setpci: Fix man page typo	8 months ago
 update-pciids.man	Man pages: clarify pci.ids...	3 years ago
 update-pciids.sh	update-pciids: Report its...	last year

 **README**  GPL-2.0 license 

This package contains the PCI Utilities, version @VERSION@.

Copyright (c) 1997--2024 Martin Mares <mj@ucw.cz>

All files in this package can be freely distributed and used according to the terms of the GNU General Public License, either version 2 or (at your opinion) any newer version. See <https://www.gnu.org/> for details.

The author wants to clarify that he does not consider programs which link dynamically to the libpci to be derived works of the library.

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.

In runs on the following systems:

|              |                                                             |
|--------------|-------------------------------------------------------------|
| Linux        | (via /sys/bus/pci, /proc/bus/pci or i386 ports)             |
| FreeBSD      | (via /dev/pci)                                              |
| NetBSD       | (via libpci)                                                |
| OpenBSD      | (via /dev/pci or i386 ports)                                |
| GNU/kFreeBSD | (via /dev/pci)                                              |
| Solaris/i386 | (direct port access)                                        |
| Aix          | (via /dev/pci and odmget)                                   |
| GNU Hurd     | (direct port access)                                        |
| Windows      | (via cfgmgr32 or direct port access, see README.Windows for |

caveats)

|                |                         |
|----------------|-------------------------|
| CYGWIN         | (direct port access)    |
| BeOS           | (via syscalls)          |
| Haiku          | (via /dev/misc/poke)    |
| Darwin         | (via IOKit)             |
| DOS/DJGPP      | (via i386 ports)        |
| SylixOS        | (via /proc/pci)         |
| AmigaOS on PPC | (via Expansion library) |

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.
- pcilmr: performs margining on PCIe links.

## 2. Compiling and (un)installing

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

Please note that a C compiler supporting the C99 standard is required.
Also, GNU make is needed on most platforms.

If you want to change the default installation location, please override the PREFIX variable specified in the Makefile -- e.g., you can use "make PREFIX=/opt/pciutils install" to create a separate installation not interfering with the rest of your system. Setting the DESTDIR variable will allow you to install to a different directory from the one you intend to eventually run it from. This is useful for people who are packaging pciutils to install on other computers.

There are several options which can be set in the Makefile or overridden when running make:

ZLIB=yes/no Enable support for compressed pci.ids (requires zlib).
If it is enabled, pciutils will use pci.ids.gz in preference to pci.ids, even if the pci.ids file is newer. If the pci.ids.gz file is missing, it will use pci.ids instead. If you do not specify this option, the configure script will try to guess automatically based on the presence of zlib.

DNS=yes/no Enable support for querying the central database of PCI IDs using DNS. Requires libresolv (which is available on most systems as a part of the standard libraries) and tries to autodetect its presence if the option is not specified.

SHARED=yes/no/local Build libpci as a shared library. Requires GCC 4.0 or newer.
The ABI of the shared library is intended to remain backward compatible for a long time (we use symbol versioning to achieve that, like GNU libc does). The value 'local' includes the right directory name in the binaries, so the utilities can be run without installation. This is not recommended for any production builds.

"make install-lib" installs the library together with its header files for use by other programs.

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

3. Getting new IDs

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The database of PCI IDs (the pci.ids file) gets out of date much faster than I release new versions of this package, so it is maintained separately.

It lives at <https://pci-ids.ucw.cz/>, where you can browse the database, download the most recent pci.ids file (e.g., by running the update-ids utility) and also submit new entries.

Alternatively, you can use ``lspci -q'` to query the central database for new entries via network.

The pci.ids file is also mirrored at <https://github.com/pciutils/pciids>.

On Linux systems with a recent enough version of libudev, UDEV's HWDB database is consulted when pci.ids lacks the device.

#### 4. Getting new versions

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The current version of pciutils is available at:

<https://mj.ucw.cz/sw/pciutils/>

The tarball can be downloaded at the following places:

<https://mj.ucw.cz/download/linux/pci/>

<ftp://ftp.ucw.cz/pub/mj/linux/pci/>

<https://www.kernel.org/pub/software/utils/pciutils/> (expect a couple of hours delay)

There is also a public GIT tree at:

<https://git.kernel.org/pub/scm/utils/pciutils/pciutils.git>

<https://github.com/pciutils/pciutils>

5. Using the library

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So far, there is only a little documentation for the library except for the general introduction in the pcilib(7) man page. If you want to use the library in your programs, please follow the comments in lib/pci.h and in

the example program example.c.

## 6. Feedback

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

If you have any new IDs, I'll be very glad to add them to the database.
Just submit them at <https://pci-ids.ucw.cz/>.

Announcements of new versions are sent to linux-pci@vger.kernel.org
(see <http://vger.kernel.org/> for instructions).

Have fun

Martin