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Linux Ubuntu 26.04 Manual Pages on command 'pciconfig_read.2'

\$ man pciconfig_read.2

pciconfig_read(2) System Calls Manual pciconfig_read(2)

NAME

pciconfig_read, pciconfig_write, pciconfig_iobase - pci device information handling

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <pci.h>
```

```
int pciconfig_read(unsigned long bus, unsigned long dfn,  
                  unsigned long off, unsigned long size,  
                  unsigned char *buf);
```

```
int pciconfig_write(unsigned long bus, unsigned long dfn,  
                  unsigned long off, unsigned long size,  
                  unsigned char *buf);
```

```
int pciconfig_iobase(int which, unsigned long bus,  
                  unsigned long devfn);
```

DESCRIPTION

Most of the interaction with PCI devices is already handled by the kernel PCI layer, and thus these calls should not normally need to be accessed from user space.

pciconfig_read()

Reads to buf from device dev at offset off value.

pciconfig_write()

Writes from buf to device dev at offset off value.

pciconfig_iobase()

You pass it a bus/devfn pair and get a physical address for either the memory offset (for things like prep, this is 0xc0000000), the IO base for PIO cycles, or the ISA holes if any.

RETURN VALUE

`pciconfig_read()`

On success, zero is returned. On error, -1 is returned and `errno` is set to indicate the error.

`pciconfig_write()`

On success, zero is returned. On error, -1 is returned and `errno` is set to indicate the error.

`pciconfig_iobase()`

Returns information on locations of various I/O regions in physical memory according to the `which` value. Values for which are: `IOBASE_BRIDGE_NUMBER`, `IOBASE_MEMORY`, `IOBASE_IO`, `IOBASE_ISA_IO`, `IOBASE_ISA_MEM`.

ERRORS

`EINVAL` size value is invalid. This does not apply to `pciconfig_iobase()`.

`EIO` I/O error.

`ENODEV` For `pciconfig_iobase()`, "hose" value is NULL. For the other calls, could not find a slot.

`ENOSYS` The system has not implemented these calls (`CONFIG_PCI` not defined).

`EOPNOTSUPP`

This return value is valid only for `pciconfig_iobase()`. It is returned if the value for which is invalid.

`EPERM` User does not have the `CAP_SYS_ADMIN` capability. This does not apply to `pciconfig_iobase()`.

STANDARDS

Linux.

HISTORY

Linux 2.0.26/2.1.11.

SEE ALSO

`capabilities(7)`