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***Rocky Enterprise Linux 9.2 Manual Pages on command 'pciconfig\_write.2'***

***\$ man pciconfig\_write.2***

PCICONFIG\_READ(2)                      Linux Programmer's Manual                      PCICONFIG\_READ(2)

**NAME**

pciconfig\_read, pciconfig\_write, pciconfig\_iobase - pci device information handling

**SYNOPSIS**

```
#include <pci.h>

int pciconfig_read(unsigned long bus, unsigned long dfn,
                  unsigned long off, unsigned long len, void *buf);

int pciconfig_write(unsigned long bus, unsigned long dfn,
                   unsigned long off, unsigned long len, void *buf);

int pciconfig_iobase(long 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 off? set (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 appropriately.

pciconfig\_write()

On success, zero is returned. On error, -1 is returned and errno is set appropriately.

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 len 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().

## CONFORMING TO

These calls are Linux-specific, available since Linux 2.0.26/2.1.11.

## SEE ALSO

capabilities(7)

## COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.