



Rocky Enterprise Linux 9.2 Manual Pages on command 'pciconfig_write.2'

C:\>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 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 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 `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 5.05 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/>.