



Rocky Enterprise Linux 9.2 Manual Pages on command 's390_pci_mmio_read.2'

\$ man s390_pci_mmio_read.2

S390_PCI_MMIO_WRITE(2) System Calls Manual S390_PCI_MMIO_WRITE(2)

NAME

s390_pci_mmio_write, s390_pci_mmio_read - transfer data to/from PCI
MMIO memory page

SYNOPSIS

```
#include <asm/unistd.h>

int s390_pci_mmio_write(unsigned long mmio_addr,
                        void *user_buffer, size_t length);

int s390_pci_mmio_read(unsigned long mmio_addr,
                       void *user_buffer, size_t length);
```

DESCRIPTION

The s390_pci_mmio_write() system call writes length bytes of data from the user-space buffer user_buffer to the PCI MMIO memory location specified by mmio_addr. The s390_pci_mmio_read() system call reads length bytes of data from the PCI MMIO memory location specified by mmio_addr to the user-space buffer user_buffer.

These system calls must be used instead of the simple assignment or data-transfer operations that are used to access the PCI MMIO memory

areas mapped to user space on the Linux System z platform. The address specified by `mmio_addr` must belong to a PCI MMIO memory page mapping in the caller's address space, and the data being written or read must not cross a page boundary. The length value cannot be greater than the system page size.

RETURN VALUE

On success, `s390_pci_mmio_write()` and `s390_pci_mmio_read()` return 0.

On error, -1 is returned and `errno` is set to one of the error codes listed below.

ERRORS

`EFAULT` The address in `mmio_addr` is invalid.

`EFAULT` `user_buffer` does not point to a valid location in the caller's address space.

`EINVAL` Invalid length argument.

`ENODEV` PCI support is not enabled.

`ENOMEM` Insufficient memory.

VERSIONS

These system calls are available since Linux 3.19.

CONFORMING TO

This Linux-specific system call is available only on the s390 architecture. The required PCI support is available beginning with System z EC12.

NOTES

Glibc does not provide a wrapper for this system call, use `syscall(2)` to call it.

SEE ALSO

`syscall(2)`

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/>.