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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'port.4' command

\$ man port.4

MEM(4)

Linux Programmer's Manual

MEM(4)

NAME

mem, kmem, port - system memory, kernel memory and system ports

DESCRIPTION

/dev/mem is a character device file that is an image of the main memory of the computer. It may be used, for example, to examine (and even patch) the system.

Byte addresses in /dev/mem are interpreted as physical memory ad? dresses. References to nonexistent locations cause errors to be re? turned.

Examining and patching is likely to lead to unexpected results when read-only or write-only bits are present.

Since Linux 2.6.26, and depending on the architecture, the CON?

FIG_STRICT_DEVMEM kernel configuration option limits the areas which can be accessed through this file. For example: on x86, RAM access is not allowed but accessing memory-mapped PCI regions is.

It is typically created by:

mknod -m 660 /dev/mem c 1 1

chown root:kmem /dev/mem

The file /dev/kmem is the same as /dev/mem, except that the kernel vir? tual memory rather than physical memory is accessed. Since Linux 2.6.26, this file is available only if the CONFIG_DEVKMEM kernel con? figuration option is enabled.

```
It is typically created by:
      mknod -m 640 /dev/kmem c 1 2
      chown root:kmem /dev/kmem
    /dev/port is similar to /dev/mem, but the I/O ports are accessed.
    It is typically created by:
      mknod -m 660 /dev/port c 1 4
      chown root:kmem /dev/port
FILES
    /dev/mem
    /dev/kmem
    /dev/port
SEE ALSO
    chown(1), mknod(1), ioperm(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
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https://www.kernel.org/doc/man-pages/.

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Linux