

**NAME**

mem, kmem, null — core memory

**DESCRIPTION**

*Mem* is a special file that is an image of the core memory of the computer. It may be used, for example, to examine, and even to patch the system using the debugger.

A memory address is a 22-bit quantity used to set up memory management to address the full memory space. References to non-existent locations cause errors to be returned.

Examining and patching device registers is likely to lead to unexpected results when read-only or write-only bits are present. Especially since reads and writes are a byte at a time.

The file *kmem* is the same as *mem* except that the kernel virtual data address space rather than physical memory is accessed. In particular, the I/O area of *kmem* is located beginning at 160000 (octal) rather than at 760000. The 1K region beginning at 140000 (octal) is the system's data for the current process.

The file *null* returns end-of-file on *read* and ignores *write*.

**FILES**

/dev/mem, /dev/kmem, /dev/null