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

\$ man mincore.2

MINCORE(2) Linux Programmer's Manual MINCORE(2)

NAME

mincore - determine whether pages are resident in memory

SYNOPSIS

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

```
#include <sys/mman.h>
```

```
int mincore(void *addr, size_t length, unsigned char *vec);
```

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

mincore():

Since glibc 2.19:

```
  _DEFAULT_SOURCE
```

Glibc 2.19 and earlier:

```
  _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

mincore() returns a vector that indicates whether pages of the calling process's virtual memory are resident in core (RAM), and so will not cause a disk access (page fault) if referenced. The kernel returns residency information about the pages starting at the address addr, and continuing for length bytes.

The addr argument must be a multiple of the system page size. The length argument need not be a multiple of the page size, but since residency information is returned for whole pages, length is effectively rounded up to the next multiple of the page size. One may obtain the page size (PAGE_SIZE) using sysconf(_SC_PAGESIZE).

The vec argument must point to an array containing at least (length+PAGE_SIZE-1) /

PAGE_SIZE bytes. On return, the least significant bit of each byte will be set if the corresponding page is currently resident in memory, and be clear otherwise. (The settings of the other bits in each byte are undefined; these bits are reserved for possible later use.) Of course the information returned in `vec` is only a snapshot: pages that are not locked in memory can come and go at any moment, and the contents of `vec` may already be stale by the time this call returns.

RETURN VALUE

On success, `mincore()` returns zero. On error, -1 is returned, and `errno` is set appropriately.

ERRORS

EAGAIN kernel is temporarily out of resources.

EFAULT `vec` points to an invalid address.

EINVAL `addr` is not a multiple of the page size.

ENOMEM `length` is greater than $(\text{TASK_SIZE} - \text{addr})$. (This could occur if a negative value is specified for `length`, since that value will be interpreted as a large unsigned integer.) In Linux 2.6.11 and earlier, the error EINVAL was returned for this condition.

ENOMEM `addr` to `addr + length` contained unmapped memory.

VERSIONS

Available since Linux 2.3.99pre1 and glibc 2.2.

CONFORMING TO

`mincore()` is not specified in POSIX.1, and it is not available on all UNIX implementations.

BUGS

Before kernel 2.6.21, `mincore()` did not return correct information for `MAP_PRIVATE` mappings, or for nonlinear mappings (established using `remap_file_pages(2)`).

SEE ALSO

`fincore(1)`, `madvise(2)`, `mlock(2)`, `mmap(2)`, `posix_fadvise(2)`, `posix_madvise(3)`

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/>.