



Linux Ubuntu 26.04 Manual Pages on command 'get_phys_pages.3'

\$ man get_phys_pages.3

get_phys_pages(3) Library Functions Manual get_phys_pages(3)

NAME

get_phys_pages, get_avphys_pages - get total and available physical page counts

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

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

```
long get_phys_pages(void);
```

```
long get_avphys_pages(void);
```

DESCRIPTION

The function `get_phys_pages()` returns the total number of physical pages of memory available on the system.

The function `get_avphys_pages()` returns the number of currently available physical pages of memory on the system.

RETURN VALUE

On success, these functions return a nonnegative value as given in DESCRIPTION. On failure, they return -1 and set `errno` to indicate the error.

ERRORS

ENOSYS The system could not provide the required information (possibly because the `/proc` filesystem was not mounted).

STANDARDS

GNU.

HISTORY

Before glibc 2.23, these functions obtained the required information by scanning the MemTotal and MemFree fields of /proc/meminfo. Since glibc 2.23, these functions obtain the required information by calling sysinfo(2).

NOTES

The following sysconf(3) calls provide a portable means of obtaining the same information as the functions described on this page.

```
total_pages = sysconf(_SC_PHYS_PAGES); /* total pages */
avl_pages = sysconf(_SC_AVPHYS_PAGES); /* available pages */
```

EXAMPLES

The following example shows how get_phys_pages() and get_avphys_pages() can be used.

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/sysinfo.h>

int
main(void)
{
    printf("This system has %ld pages of physical memory and "
           "%ld pages of physical memory available.\n",
           get_phys_pages(), get_avphys_pages());
    exit(EXIT_SUCCESS);
}
```

SEE ALSO

sysconf(3)

Linux man-pages 6.17

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