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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'get_phys_pages.3' command

\$ man get_phys_pages.3

GET_PHYS_PAGES(3) Linux Programmer's Manual GET_PHYS_PAGES(3)

NAME

get_phys_pages, get_avphys_pages - get total and available physical page counts

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 cause of the error.

ERRORS

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

CONFORMING TO

These functions are GNU extensions.

NOTES

These functions obtain the required information by scanning the MemTotal and MemFree fields of /proc/meminfo.

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(int argc, char *argv[])
{
    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)

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/>.

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