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***Rocky Enterprise Linux 9.2 Manual Pages on command 'get\_phys\_pages.3'***

**\$ 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/>.