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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'get\_avphys\_pages.3' command**

**\$ man get\_avphys\_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 DE?

SCRIPTION. 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 MemTo?tal 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/>.