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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'getpagesize.2' command

$ man getpagesize.2

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

NAME

getpagesize - get memory page size

SYNOPSIS

#include <unistd.h>

int getpagesize(void);

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

getpagesize():

Since glibc 2.19:

_DEFAULT_SOURCE || ! (_POSIX_C_SOURCE >= 200112L)

From glibc 2.12 to 2.19:

_BSD_SOURCE || ! (_POSIX_C_SOURCE >= 200112L)

Before glibc 2.12:

_BSD_SOURCE || _XOPEN_SOURCE >= 500

DESCRIPTION

The function getpagesize() returns the number of bytes in a memory page, where "page" is a fixed-length block, the unit for memory alloca? tion and file mapping performed by mmap(2).

CONFORMING TO

SVr4, 4.4BSD, SUSv2. In SUSv2 the getpagesize() call is labeled LEGACY, and in POSIX.1-2001 it has been dropped; HP-UX does not have this call.

NOTES

Portable applications should employ sysconf(_SC_PAGESIZE) instead of getpagesize():

```
#include <unistd.h>
long sz = sysconf(_SC_PAGESIZE);
```

(Most systems allow the synonym _SC_PAGE_SIZE for _SC_PAGESIZE.)

Whether getpagesize() is present as a Linux system call depends on the architecture. If it is, it returns the kernel symbol PAGE_SIZE, whose value depends on the architecture and machine model. Generally, one uses binaries that are dependent on the architecture but not on the machine model, in order to have a single binary distribution per architecture. This means that a user program should not find PAGE_SIZE at compile time from a header file, but use an actual system call, at least for those architectures (like sun4) where this dependency exists. Here glibc 2.0 fails because its getpagesize() returns a statically derived value, and does not use a system call. Things are OK in glibc 2.1.

SEE ALSO

mmap(2), 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/.