NAME

```
getpagesize - get memory page size
```

LIBRARY

```
Standard C library (libc, -lc)
```

SYNOPSIS

```
#include <unistd.h>
```

int getpagesize(void);

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

```
getpagesize():
    Since glibc 2.20:
    _DEFAULT_SOURCE || ! (_POSIX_C_SOURCE >= 200112L)
    glibc 2.12 to glibc 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 allocation and file mapping performed by **mmap**(2).

STANDARDS

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 $\textit{sysconf}(_SC_PAGESIZE)$ 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)