

NAME

getdtablesize – get file descriptor table size

LIBRARY

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

SYNOPSIS

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

```
int getdtablesize(void);
```

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

getdtablesize():

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

getdtablesize() returns the maximum number of files a process can have open, one more than the largest possible value for a file descriptor.

RETURN VALUE

The current limit on the number of open files per process.

ERRORS

On Linux, **getdtablesize()** can return any of the errors described for **getrlimit(2)**; see NOTES below.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes(7)**.

Interface	Attribute	Value
getdtablesize()	Thread safety	MT-Safe

STANDARDS

SVr4, 4.4BSD (the **getdtablesize()** function first appeared in 4.2BSD). It is not specified in POSIX.1; portable applications should employ `sysconf(_SC_OPEN_MAX)` instead of this call.

NOTES

The glibc version of **getdtablesize()** calls **getrlimit(2)** and returns the current **RLIMIT_NOFILE** limit, or **OPEN_MAX** when that fails.

SEE ALSO

close(2), **dup(2)**, **getrlimit(2)**, **open(2)**