

NAME

getdtablesize - get descriptor table size

SYNOPSIS

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

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

Feature Test Macro Requirements for glibc (see [feature_test_macros\(7\)](#)):

```
getdtablesize():
```

Since glibc 2.12:

```
    _BSD_SOURCE ||  
    !(_POSIX_C_SOURCE >= 200112L || _XOPEN_SOURCE >= 600)
```

Before glibc 2.12:

```
    _BSD_SOURCE || _XOPEN_SOURCE >= 500 ||  
    _XOPEN_SOURCE && _XOPEN_SOURCE_EXTENDED
```

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

Multithreading (see [pthreads\(7\)](#))

The **getdtablesize()** function is thread-safe.

CONFORMING TO

SVr4, 4.4BSD (the **getdtablesize()** function first appeared in 4.2BSD). It is not specified in POSIX.1-2001; portable applications should employ *sysconf(_SC_OPEN_MAX)* instead of this call.

NOTES

getdtablesize() is implemented as a libc library function. The glibc version 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\(2\)](#)

COLOPHON

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