

**NAME**

clearerr, feof, ferror, fileno - check and reset stream status

**SYNOPSIS**

```
#include <stdio.h>

void clearerr(FILE *stream);

int feof(FILE *stream);

int ferror(FILE *stream);

int fileno(FILE *stream);
```

Feature Test Macro Requirements for glibc (see [feature\\_test\\_macros\(7\)](#)):

```
fileno(): _POSIX_C_SOURCE >= 1 || _XOPEN_SOURCE || _POSIX_SOURCE
```

**DESCRIPTION**

The function **clearerr()** clears the end-of-file and error indicators for the stream pointed to by *stream*.

The function **feof()** tests the end-of-file indicator for the stream pointed to by *stream*, returning nonzero if it is set. The end-of-file indicator can be cleared only by the function **clearerr()**.

The function **ferror()** tests the error indicator for the stream pointed to by *stream*, returning nonzero if it is set. The error indicator can be reset only by the **clearerr()** function.

The function **fileno()** examines the argument *stream* and returns its integer descriptor.

For nonlocking counterparts, see [unlocked\\_stdio\(3\)](#).

**ERRORS**

These functions should not fail and do not set the external variable *errno*. (However, in case **fileno()** detects that its argument is not a valid stream, it must return -1 and set *errno* to **EBADF**.)

**ATTRIBUTES**

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

The **clearerr()**, **feof()**, **ferror()**, and **fileno()** functions are thread-safe.

**CONFORMING TO**

The functions **clearerr()**, **feof()**, and **ferror()** conform to C89, C99, POSIX.1-2001, and POSIX.1-2008.

The function **fileno()** conforms to POSIX.1-2001 and POSIX.1-2008.

**SEE ALSO**

[open\(2\)](#), [fdopen\(3\)](#), [stdio\(3\)](#), [unlocked\\_stdio\(3\)](#)

**COLOPHON**

This page is part of release 3.74 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 <http://www.kernel.org/doc/man-pages/>.