

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
```

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 the integer file descriptor used to implement this stream. The file descriptor is still owned by *stream* and will be closed when **fclose(3)** is called. Duplicate the file descriptor with **dup(2)** before passing it to code that might close it.

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

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

Interface	Attribute	Value
clearerr() , feof() , ferror() , fileno()	Thread safety	MT-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

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