NAME

clearerr, feof, ferror – check and reset stream status

LIBRARY

Standard C library (*libc*, *−lc*)

SYNOPSIS

#include <stdio.h>

void clearerr(FILE **stream***);**
int feof(FILE **stream***);**
int ferror(FILE **stream***);**

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.

For nonlocking counterparts, see **unlocked_stdio**(3).

RETURN VALUE

The **feof**() function returns nonzero if the end-of-file indicator is set for *stream*; otherwise, it returns zero.

The **ferror**() function returns nonzero if the error indicator is set for *stream*; otherwise, it returns zero.

ERRORS

These functions should not fail and do not set *errno*.

ATTRIBUTES

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

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

STANDARDS

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

NOTES

POSIX.1-2008 specifies that these functions shall not change the value of *errno* if *stream* is valid.

CAVEATS

Normally, programs should read the return value of an input function, such as **fgetc**(3), before using functions of the **feof**(3) family. Only when the function returned the sentinel value **EOF** it makes sense to distinguish between the end of a file or an error with **feof**(3) or **ferror**(3).

SEE ALSO

open(2), **fdopen**(3), **fileno**(3), **stdio**(3), **unlocked_stdio**(3)