NAME

fclose − close a stream

SYNOPSIS

#include <stdio.h>

int fclose(FILE ****stream*);**

DESCRIPTION

The **fclose**() function flushes the stream pointed to by *stream* (writing any buffered output data using **fflush**(3)) and closes the underlying file descriptor.

The behaviour of **fclose**() is undefined if the *stream* parameter is an illegal pointer, or is a descriptor already passed to a previous invocation of **fclose**().

RETURN VALUE

Upon successful completion, 0 is returned. Otherwise, **EOF** is returned and *errno* is set to indicate the error. In either case, any further access (including another call to **fclose**()) to the stream results in undefined behavior.

ERRORS

EBADF

The file descriptor underlying *stream* is not valid.

The **fclose**() function may also fail and set *errno* for any of the errors specified for the routines **close**(2), **write**(2), or **fflush**(3).

ATTRIBUTES

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

Interface	Attribute	Value
fclose()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C89, C99.

NOTES

Note that **fclose**() flushes only the user-space buffers provided by the C library. To ensure that the data is physically stored on disk the kernel buffers must be flushed too, for example, with **sync**(2) or **fsync**(2).

SEE ALSO

close(2), **fcloseall**(3), **fflush**(3), **fileno**(3), **fopen**(3), **setbuf**(3)

COLOPHON

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