NAME
fclose – close a stream

SYNOPSIS
#include <stdio.h>

int fclose(FILE * *fp***);**

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

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 *fp* 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
C89, C99.

NOTES
Note that **fclose**() only flushes 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), **fopen**(3), **setbuf**(3)

COLOPHON
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