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.

 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 *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).

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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