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__fbufsize, __flbf, __fpending, __fpurge, __freadable, __freading, __fsetlocking, __fwritable, __fwriting, __flushlbf – interfaces to stdio FILE structure

SYNOPSIS

#include <stdio.h>
#include <stdio ext.h>

size_t __fbufsize(FILE *stream); size_t __fpending(FILE *stream); int __flbf(FILE *stream); int __freadable(FILE *stream); int __fwritable(FILE *stream); int __freading(FILE *stream); int __fwriting(FILE *stream); int __fsetlocking(FILE *stream, int type); void __flushlbf(void); void __fpurge(FILE *stream);

DESCRIPTION

Solaris introduced routines to allow portable access to the internals of the *FILE* structure, and glibc also implemented these.

The __fbufsize() function returns the size of the buffer currently used by the given stream.

The **__fpending**() function returns the number of bytes in the output buffer. For wide-oriented streams the unit is wide characters. This function is undefined on buffers in reading mode, or opened read-only.

The __flbf() function returns a nonzero value if the stream is line-buffered, and zero otherwise.

The __freadable() function returns a nonzero value if the stream allows reading, and zero otherwise.

The __fwritable() function returns a nonzero value if the stream allows writing, and zero otherwise.

The **__freading**() function returns a nonzero value if the stream is read-only, or if the last operation on the stream was a read operation, and zero otherwise.

The <u>__fwriting()</u> function returns a nonzero value if the stream is write-only (or append-only), or if the last operation on the stream was a write operation, and zero otherwise.

The **__fsetlocking**() function can be used to select the desired type of locking on the stream. It returns the current type. The *type* argument can take the following three values:

FSETLOCKING_INTERNAL

Perform implicit locking around every operation on the given stream (except for the *_unlocked ones). This is the default.

FSETLOCKING_BYCALLER

The caller will take care of the locking (possibly using **flockfile**(3) in case there is more than one thread), and the stdio routines will not do locking until the state is reset to **FSETLOCKING_IN-TERNAL**.

FSETLOCKING_QUERY

Don't change the type of locking. (Only return it.)

The _flushlbf() function flushes all line-buffered streams. (Presumably so that output to a terminal is forced out, say before reading keyboard input.)

The __fpurge() function discards the contents of the stream's buffer.

ATTRIBUTES

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

Interface	Attribute	Value
fbufsize(),fpending(),	Thread safety	MT-Safe race:stream
fpurge(),fsetlocking()		
flbf(),freadable(),	Thread safety	MT-Safe
freading(),fwritable(),		
fwriting(), _flushlbf()		

SEE ALSO

flockfile(3), fpurge(3)

COLOPHON

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