Rocky Enterprise Linux 9.2 Manual Pages on command '__freading.3'

$ man __freading.3

STDIO_EXT(3) Linux Programmer's Manual STDIO_EXT(3)

NAME

__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 __fwriting() 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 flock? file(3) in case there is more than one thread), and the stdio routines will not do locking until the state is reset to FSET? LOCKING_INTERNAL.

FSETLOCKING_QUERY

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

The _flushlbf() function flushes all line-buffered streams. (Presum?
ably 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 at?
tributes(7).

Interface	Attribute	Value
__fbufsize(), __fpending(), __fpurge(), __fsetlocking()	Thread safety	MT-Safe race:stream
__flbf(), __freadable(), __freading(), __fwritable(), __fwriting(), _flushlbf()	Thread safety	MT-Safe

SEE ALSO

flockfile(3), fpurge(3)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A
description of the project, information about reporting bugs, and the
latest version of this page, can be found at
https://www.kernel.org/doc/man-pages/.

2015-03-02 STDIO_EXT(3)