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

\$ man fsetpos.3

FSEEK(3)

Linux Programmer's Manual

FSEEK(3)

NAME

fgetpos, fseek, fsetpos, ftell, rewind - reposition a stream

SYNOPSIS

```
#include <stdio.h>

int fseek(FILE *stream, long offset, int whence);

long ftell(FILE *stream);

void rewind(FILE *stream);

int fgetpos(FILE *stream, fpos_t *pos);

int fsetpos(FILE *stream, const fpos_t *pos);
```

DESCRIPTION

The `fseek()` function sets the file position indicator for the stream pointed to by `stream`.

The new position, measured in bytes, is obtained by adding offset bytes to the position specified by whence. If whence is set to SEEK_SET, SEEK_CUR, or SEEK_END, the offset is relative to the start of the file, the current position indicator, or end-of-file, respectively. A successful call to the fseek() function clears the end-of-file indicator for the stream and undoes any effects of the ungetc(3) function on the same stream. The ftell() function obtains the current value of the file position indicator for the stream pointed to by stream.

The `rewind()` function sets the file position indicator for the stream pointed to by `stream` to the beginning of the file. It is equivalent to:

(void) fseek(stream, 0L, SEEK_SET)

except that the error indicator for the stream is also cleared (see `clearerr(3)`).

The `fgetpos()` and `fsetpos()` functions are alternate interfaces equivalent to `fseek()` and `fpos_t` (`SEEK_SET`), setting and storing the current value of the file offset into or from the object referenced by `pos`. On some non-UNIX systems, an `fpos_t` object may be a complex object and these routines may be the only way to portably reposition a text stream.

RETURN VALUE

The `rewind()` function returns no value. Upon successful completion, `fgetpos()`, `fseek()`, `fsetpos()` return 0, and `ftell()` returns the current offset. Otherwise, -1 is returned and `errno` is set to indicate the error.

ERRORS

EINVAL The whence argument to fseek() was not SEEK_SET, SEEK_END, or SEEK_CUR. Or: the resulting file offset would be negative.

ESPIPE The file descriptor underlying stream is not seekable (e.g., it refers to a pipe, FIFO, or socket).

The functions `fgetpos()`, `fseek()`, `fsetpos()`, and `ftell()` may also fail and set `errno` for any of the errors specified for the routines `fflush(3)`, `fstat(2)`, `lseek(2)`, and `malloc(3)`.

ATTRIBUTES

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

?Interface ? Attribute ? Value ?

?fseek() ftell() rewind() ? Thread safety ? MT-Safe ?

?fgetpos(), fsetpos() ? ? ? ?

CONFORMING TO

POSIX 1-2001 POSIX 1-2008 C89 C99

SEE ALSO

`lseek(2) fseek(3)`

COLOPHON

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