

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 `ftell()` and `fseek()` (with *whence* set to `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**EBADF**

The *stream* specified is not a seekable stream.

EINVAL

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

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)`.

CONFORMING TO

C89, C99.

SEE ALSO

[lseek\(2\)](#), [fseeko\(3\)](#)

COLOPHON

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