

# fgetpos

Defined in header <stdio.h>

```
int fgetpos( FILE          *stream, fpos_t          *pos );    (until C99)
int fgetpos( FILE *restrict stream, fpos_t *restrict pos );    (since C99)
```

Obtains the file position indicator and the current parse state (if any) for the file stream `stream` and stores them in the object pointed to by `pos`. The value stored is only meaningful as the input to `fsetpos`.

## Parameters

**stream** - file stream to examine  
**pos** - pointer to a `fpos_t` object to store the file position indicator to

## Return value

0 upon success, nonzero value otherwise.

## Example

Run this code

```
#include <stdio.h>
#include <stdlib.h>
#include <assert.h>

int main(void)
{
    // prepare a file holding 4 values of type double
    enum {SIZE = 4};
    FILE* fp = fopen("test.bin", "wb");
    assert(fp);
    int rc = fwrite((double[SIZE]){1.1, 2.2, 3.3, 4.4}, sizeof(double), SIZE, fp);
    assert(rc == SIZE);
    fclose(fp);

    // demo using fsetpos to return to the beginning of a file
    fp = fopen("test.bin", "rb");
    fpos_t pos;
    fgetpos(fp, &pos);                // store start of file in pos
    double d;
    rc = fread(&d, sizeof d, 1, fp); // read the first double
    assert(rc == 1);
    printf("First value in the file: %.1f\n", d);
    fsetpos(fp, &pos);                // move file position back to the start of the file
    rc = fread(&d, sizeof d, 1, fp); // read the first double again
    assert(rc == 1);
    printf("First value in the file again: %.1f\n", d);
    fclose(fp);

    // demo error handling
    rc = fsetpos(stdin, &pos);
    if(rc) perror("could not fsetpos stdin");
}
```

Output:

```
First value in the file: 1.1
First value in the file again: 1.1
could not fsetpos stdin: Illegal seek
```

## References

- C11 standard (ISO/IEC 9899:2011):

- 7.21.9.1 The fgetpos function (p: 336)
- C99 standard (ISO/IEC 9899:1999):
  - 7.19.9.1 The fgetpos function (p: 302)
- C89/C90 standard (ISO/IEC 9899:1990):
  - 4.9.9.1 The fgetpos function

See also

<b>ftell</b>	returns the current file position indicator (function)
<b>fseek</b>	moves the file position indicator to a specific location in a file (function)
<b>fsetpos</b>	moves the file position indicator to a specific location in a file (function)

C++ documentation for **fgetpos**

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