NAME

fgetc, fgets, getc, getchar, ungetc − input of characters and strings

SYNOPSIS

#include <stdio.h>

int fgetc(FILE *_stream_);

char *fgets(char *_s_, int _size_, FILE *_stream_);

int getc(FILE *_stream_);

int getchar(void);

int ungetc(int _c_, FILE *_stream_);

DESCRIPTION

fgetc() reads the next character from *stream* and returns it as an *unsigned char* cast to an *int*, or **EOF** on end of file or error.

getc() is equivalent to **fgetc**() except that it may be implemented as a macro which evaluates *stream* more than once.

getchar() is equivalent to **getc(***stdin***)**.

fgets() reads in at most one less than *size* characters from *stream* and stores them into the buffer pointed to by *s*. Reading stops after an **EOF** or a newline. If a newline is read, it is stored into the buffer. A terminating null byte ('\0') is stored after the last character in the buffer.

ungetc() pushes *c* back to *stream*, cast to *unsigned char*, where it is available for subsequent read operations. Pushed-back characters will be returned in reverse order; only one pushback is guaranteed.

Calls to the functions described here can be mixed with each other and with calls to other input functions from the *stdio* library for the same input stream.

For nonlocking counterparts, see **unlocked_stdio**(3).

RETURN VALUE

fgetc(), **getc**() and **getchar**() return the character read as an *unsigned char* cast to an *int* or **EOF** on end of file or error.

fgets() returns *s* on success, and NULL on error or when end of file occurs while no characters have been read.

ungetc() returns *c* on success, or **EOF** on error.

ATTRIBUTES

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

Interface	Attribute	Value
fgetc(), **fgets**(), **getc**(), **getchar**(), **ungetc**()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C89, C99.

It is not advisable to mix calls to input functions from the *stdio* library with low-level calls to **read**(2) for the file descriptor associated with the input stream; the results will be undefined and very probably not what you want.

SEE ALSO

read(2), **write**(2), **ferror**(3), **fgetwc**(3), **fgetws**(3), **fopen**(3), **fread**(3), **fseek**(3), **getline**(3), **gets**(3), **getwchar**(3), **puts**(3), **scanf**(3), **ungetwc**(3), **unlocked_stdio**(3), **feature_test_macros**(7)

COLOPHON

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