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.

CONFORMING TO

C89, C99, POSIX.1-2001.

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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