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

$ man ungetc.3

FGETC(3)   Linux Programmer's Manual   FGETC(3)

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 evalu?

    ates 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 subse?

    quent 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 char‐acters 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), get‐line(3), gets(3), getwchar(3), puts(3), scanf(3), ungetwc(3), unlocked_stdio(3), fea‐ture_test_macros(7)

COLOPHON

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