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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'getc.3p' command

\$ man getc.3p

GETC(3P) POSIX Programmer's Manual GETC(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

getc ? get a byte from a stream

SYNOPSIS

```
#include <stdio.h>

int getc(FILE *stream);
```

DESCRIPTION

The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

The `getc()` function shall be equivalent to `fgetc()`, except that if it is implemented as a macro it may evaluate `stream` more than once, so the argument should never be an expression with side-effects.

RETURN VALUE

Refer to `fgetc()`.

ERRORS

Refer to `fgetc()`.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

If the integer value returned by `getc()` is stored into a variable of type `char` and then compared against the integer constant `EOF`, the comparison may never succeed, because sign-extension of a variable of type `char` on widening to integer is implementation-defined.

Since it may be implemented as a macro, `getc()` may treat incorrectly a stream argument with side-effects. In particular, `getc(*f++)` does not necessarily work as expected. Therefore, use of this function should be preceded by `"#undefgetc"` in such situations; `fgetc()` could also be used.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

Section 2.5, Standard I/O Streams, `fgetc()`

The Base Definitions volume of POSIX.1-2017, `<stdio.h>`

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