

NAME

fputc, fputs, putc, putchar, puts – output of characters and strings

SYNOPSIS

```
#include <stdio.h>

int fputc(int c, FILE *stream);
int fputs(const char *s, FILE *stream);
int putc(int c, FILE *stream);
int putchar(int c);
int puts(const char *s);
```

DESCRIPTION

fputc() writes the character *c*, cast to an *unsigned char*, to *stream*.

fputs() writes the string *s* to *stream*, without its terminating null byte ('\0').

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

putchar(c) is equivalent to **putc(c, stdout)**.

puts() writes the string *s* and a trailing newline to *stdout*.

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

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

RETURN VALUE

fputc(), **putc()** and **putchar()** return the character written as an *unsigned char* cast to an *int* or **EOF** on error.

puts() and **fputs()** return a nonnegative number on success, or **EOF** on error.

ATTRIBUTES

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

Interface	Attribute	Value
fputc() , fputs() , putc() , putchar() , puts()	Thread safety	MT-Safe

CONFORMING TO

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

BUGS

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

SEE ALSO

write(2), **ferror(3)**, **fgets(3)**, **fopen(3)**, **fputwc(3)**, **fputws(3)**, **fseek(3)**, **fwrite(3)**, **putwchar(3)**, **scanf(3)**, **unlocked_stdio(3)**

COLOPHON

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