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 ($^{\backslash 0}$).

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
<pre>fputc(), fputs(), putchar(), puts()</pre>	putc(),	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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