#### **NAME**

fpute, fputs, pute, 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(),	Thread safety	MT-Safe
putchar(), puts()				

#### **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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