NAME
        getc_unlocked, getchar_unlocked, putc_unlocked, putchar_unlocked − nonlocking stdio functions

LIBRARY
        Standard C library (*libc*, *−lc*)

SYNOPSIS
        #include <stdio.h>

        int getc_unlocked(FILE **stream***);**
        int getchar_unlocked(void);
        int putc_unlocked(int *c***, FILE ****stream***);**
        int putchar_unlocked(int *c***);**

        void clearerr_unlocked(FILE **stream***);**
        int feof_unlocked(FILE **stream***);**
        int ferror_unlocked(FILE **stream***);**
        int fileno_unlocked(FILE **stream***);**
        int fflush_unlocked(FILE **stream***);**

        int fgetc_unlocked(FILE **stream***);**
        int fputc_unlocked(int *c***, FILE ****stream***);**

        size_t fread_unlocked(void *ptr***[restrict .***size* *** .***n***],**
                     size_t *size***, size_t** *n***,**
                     FILE *restrict *stream***);**
        size_t fwrite_unlocked(const void *ptr***[restrict .***size* *** .***n***],**
                     size_t *size***, size_t** *n***,**
                     FILE *restrict *stream***);**

        char *fgets_unlocked(char *s***[restrict .***n***], int** *n***, FILE *restrict** *stream***);**
        int fputs_unlocked(const char *restrict *s***, FILE *restrict** *stream***);**

        #include <wchar.h>

        wint_t getwc_unlocked(FILE **stream***);**
        wint_t getwchar_unlocked(void);
        wint_t fgetwc_unlocked(FILE **stream***);**

        wint_t fputwc_unlocked(wchar_t *wc***, FILE ****stream***);**
        wint_t putwc_unlocked(wchar_t *wc***, FILE ****stream***);**
        wint_t putwchar_unlocked(wchar_t *wc***);**

        wchar_t *fgetws_unlocked(wchar_t *ws***[restrict .***n***], int** *n***,**
                     FILE *restrict *stream***);**
        int fputws_unlocked(const wchar_t *restrict *ws***,**
                     FILE *restrict *stream***);**

    Feature Test Macro Requirements for glibc (see **feature_test_macros**(7)):

        getc_unlocked(), **getchar_unlocked**(), **putc_unlocked**(), **putchar_unlocked**():
           /* glibc >= 2.24: */ _POSIX_C_SOURCE >= 199309L
              || /* glibc <= 2.23: */ _POSIX_C_SOURCE
              || /* glibc <= 2.19: */ _SVID_SOURCE || _BSD_SOURCE

        clearerr_unlocked(), **feof_unlocked**(), **ferror_unlocked**(), **fileno_unlocked**(), **fflush_unlocked**(),
        fgetc_unlocked(), **fputc_unlocked**(), **fread_unlocked**(), **fwrite_unlocked**():
           /* glibc >= 2.19: */ _DEFAULT_SOURCE
              || /* glibc <= 2.19: */ _SVID_SOURCE || _BSD_SOURCE

        fgets_unlocked(), **fputs_unlocked**(), **getwc_unlocked**(), **getwchar_unlocked**(), **fgetwc_unlocked**(),
        fputwc_unlocked(), **putwchar_unlocked**(), **fgetws_unlocked**(), **fputws_unlocked**():
           _GNU_SOURCE

DESCRIPTION

Each of these functions has the same behavior as its counterpart without the "_unlocked" suffix, except that they do not use locking (they do not set locks themselves, and do not test for the presence of locks set by others) and hence are thread-unsafe. See **flockfile**(3).

ATTRIBUTES

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

Interface	Attribute	Value
getc_unlocked(), **putc_unlocked**(), **clearerr_unlocked**(), **fflush_unlocked**(), **fgetc_unlocked**(), **fputc_unlocked**(), **fread_unlocked**(), **fwrite_unlocked**(), **fgets_unlocked**(), **fputs_unlocked**(), **getwc_unlocked**(), **fgetwc_unlocked**(), **fputwc_unlocked**(), **putwc_unlocked**(), **fgetws_unlocked**(), **fputws_unlocked**()	Thread safety	MT-Safe race:stream
getchar_unlocked(), **getwchar_unlocked**()	Thread safety	MT-Unsafe race:stdin
putchar_unlocked(), **putwchar_unlocked**()	Thread safety	MT-Unsafe race:stdout
feof_unlocked(), **ferror_unlocked**(), **fileno_unlocked**()	Thread safety	MT-Safe

STANDARDS

The four functions **getc_unlocked**(), **getchar_unlocked**(), **putc_unlocked**(), **putchar_unlocked**() are in POSIX.1-2001 and POSIX.1-2008.

The nonstandard ***_unlocked**() variants occur on a few UNIX systems, and are available in recent glibc. They should probably not be used.

SEE ALSO

flockfile(3), **stdio**(3)