

NAME

getc_unlocked, getchar_unlocked, putc_unlocked, putchar_unlocked – nonlocking stdio functions

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, size_t size, size_t n,
    FILE *stream);
size_t fwrite_unlocked(const void *ptr, size_t size, size_t n,
    FILE *stream);

char *fgets_unlocked(char *s, int n, FILE *stream);
int fputs_unlocked(const char *s, FILE *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, int n, FILE *stream);
int fputws_unlocked(const wchar_t *ws, FILE *stream);
```

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

```
getc_unlocked(), getchar_unlocked(), putc_unlocked(), putchar_unlocked():
/* Since glibc 2.24: */ _POSIX_C_SOURCE >= 199309L
|| /* Glibc versions <= 2.23: */ _POSIX_C_SOURCE
|| /* Glibc versions <= 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 since 2.19: */ _DEFAULT_SOURCE
|| /* Glibc versions <= 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(), clear- err_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(), fer- ror_unlocked(), fileno_unlocked()	Thread safety	MT-Safe

CONFORMING TO

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)**

COLOPHON

This page is part of release 5.02 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.