NAME

fgets, **gets_s** - get a line from a stream

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <stdio.h>

char *
fgets(*char * restrict str*, *int size*, *FILE * restrict stream*);

char *
gets_s(*char *str*, *rsize_t size*);

DESCRIPTION

The **fgets**() function reads at most one less than the number of characters specified by *size* from the given *stream* and stores them in the string *str*. Reading stops when a newline character is found, at end-of-file or error. The newline, if any, is retained. If any characters are read and there is no error, a '\0' character is appended to end the string.

The **gets_s**() function is equivalent to **fgets**() with a *stream* of stdin, except that the newline character (if any) is not stored in the string.

The **gets**() function was unsafe and is no longer available.

RETURN VALUES

Upon successful completion, **fgets**() and **gets_s**() return a pointer to the string. If end-of-file occurs before any characters are read, they return NULL and the buffer contents remain unchanged. If an error occurs, they return NULL and the buffer contents are indeterminate. The **fgets**() and **gets_s**() functions do not distinguish between end-of-file and error, and callers must use feof(3) and ferror(3) to determine which occurred.

ERRORS

[EBADF]   The given *stream* is not a readable stream.

The function **fgets**() may also fail and set *errno* for any of the errors specified for the routines fflush(3), fstat(2), read(2), or malloc(3).

The function **gets_s**() may also fail and set *errno* for any of the errors specified for the routine

getchar(3).

SEE ALSO

feof(3), ferror(3), fgetln(3), fgetws(3), getline(3)

STANDARDS

The **fgets**() function conforms to ISO/IEC 9899:1999 ("ISO C99"). **gets_s**() conforms to ISO/IEC 9899:2011 ("ISO C11") K.3.7.4.1. **gets**() has been removed from ISO/IEC 9899:2011 ("ISO C11").

HISTORY

The functions **fgets**() and **gets**() first appeared in Version 7 AT&T UNIX.