#### NAME

getdelim, getline - get a line from a stream

### LIBRARY

Standard C Library (libc, -lc)

### SYNOPSIS

#include <stdio.h>

ssize\_t

getdelim(char \*\* restrict linep, size\_t \* restrict linecapp, int delimiter, FILE \* restrict stream);

ssize\_t

getline(char \*\* restrict linep, size\_t \* restrict linecapp, FILE \* restrict stream);

### DESCRIPTION

The **getdelim**() function reads a line from *stream*, delimited by the character *delimiter*. The **getline**() function is equivalent to **getdelim**() with the newline character as the delimiter. The delimiter character is included as part of the line, unless the end of the file is reached.

The caller may provide a pointer to a malloced buffer for the line in *\*linep*, and the capacity of that buffer in *\*linecapp*. These functions expand the buffer as needed, as if via **realloc**(). If *linep* points to a NULL pointer, a new buffer will be allocated. In either case, *\*linep* and *\*linecapp* will be updated accordingly.

## **RETURN VALUES**

The **getdelim**() and **getline**() functions return the number of characters stored in the buffer, excluding the terminating NUL character. The value -1 is returned if an error occurs, or if end-of-file is reached.

#### EXAMPLES

The following code fragment reads lines from a file and writes them to standard output. The **fwrite**() function is used in case the line contains embedded NUL characters.

# ERRORS

These functions may fail if:

[EINVAL]	Either <i>linep</i> or <i>linecapp</i> is NULL.
[EOVERFLOW]	No delimiter was found in the first SSIZE_MAX characters.

These functions may also fail due to any of the errors specified for **fgets**() and **malloc**().

# SEE ALSO

fgetln(3), fgets(3), malloc(3)

## STANDARDS

The getdelim() and getline() functions conform to IEEE Std 1003.1-2008 ("POSIX.1").

## HISTORY

These routines first appeared in FreeBSD 8.0.

## BUGS

There are no wide character versions of **getdelim**() or **getline**().