#### **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 *linep* or *linecapp* 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**().