

NAME

getlogin, getlogin_r, cuserid – get username

SYNOPSIS

```
#include <unistd.h>
```

```
char *getlogin(void);
```

```
int getlogin_r(char *buf, size_t bufsize);
```

```
#include <stdio.h>
```

```
char *cuserid(char *string);
```

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

```
getlogin_r(): _POSIX_C_SOURCE >= 199506L
```

```
cuserid():
```

Since glibc 2.24:

```
(_XOPEN_SOURCE && ! (_POSIX_C_SOURCE >= 200112L)
```

```
|| _GNU_SOURCE
```

Up to and including glibc 2.23:

```
_XOPEN_SOURCE
```

DESCRIPTION

getlogin() returns a pointer to a string containing the name of the user logged in on the controlling terminal of the process, or a null pointer if this information cannot be determined. The string is statically allocated and might be overwritten on subsequent calls to this function or to **cuserid()**.

getlogin_r() returns this same username in the array *buf* of size *bufsize*.

cuserid() returns a pointer to a string containing a username associated with the effective user ID of the process. If *string* is not a null pointer, it should be an array that can hold at least **L_cuserid** characters; the string is returned in this array. Otherwise, a pointer to a string in a static area is returned. This string is statically allocated and might be overwritten on subsequent calls to this function or to **getlogin()**.

The macro **L_cuserid** is an integer constant that indicates how long an array you might need to store a username. **L_cuserid** is declared in *<stdio.h>*.

These functions let your program identify positively the user who is running (**cuserid()**) or the user who logged in this session (**getlogin()**). (These can differ when set-user-ID programs are involved.)

For most purposes, it is more useful to use the environment variable **LOGNAME** to find out who the user is. This is more flexible precisely because the user can set **LOGNAME** arbitrarily.

RETURN VALUE

getlogin() returns a pointer to the username when successful, and NULL on failure, with *errno* set to indicate the cause of the error. **getlogin_r()** returns 0 when successful, and nonzero on failure.

ERRORS

POSIX specifies

EMFILE

The per-process limit on the number of open file descriptors has been reached.

ENFILE

The system-wide limit on the total number of open files has been reached.

ENXIO

The calling process has no controlling terminal.

ERANGE

(**getlogin_r**) The length of the username, including the terminating null byte ('\0'), is larger than *bufsize*.

Linux/glibc also has

ENOENT

There was no corresponding entry in the utmp-file.

ENOMEM

Insufficient memory to allocate passwd structure.

ENOTTY

Standard input didn't refer to a terminal. (See BUGS.)

FILES

/etc/passwd

password database file

/var/run/utmp

(traditionally */etc/utmp*; some libc versions used */var/adm/utmp*)

ATTRIBUTES

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

| Interface | Attribute | Value |
|---------------------|---------------|--|
| getlogin() | Thread safety | MT-Unsafe race:getlogin race:utent sig:ALRM timer locale |
| getlogin_r() | Thread safety | MT-Unsafe race:utent sig:ALRM timer locale |
| cuserid() | Thread safety | MT-Unsafe race:cuserid/!string locale |

In the above table, *utent* in *race:utent* signifies that if any of the functions **setutent(3)**, **getutent(3)**, or **endutent(3)** are used in parallel in different threads of a program, then data races could occur. **getlogin()** and **getlogin_r()** call those functions, so we use *race:utent* to remind users.

CONFORMING TO

getlogin() and **getlogin_r()**: POSIX.1-2001, POSIX.1-2008.

System V has a **cuserid()** function which uses the real user ID rather than the effective user ID. The **cuserid()** function was included in the 1988 version of POSIX, but removed from the 1990 version. It was present in SUSv2, but removed in POSIX.1-2001.

OpenBSD has **getlogin()** and **setlogin()**, and a username associated with a session, even if it has no controlling terminal.

BUGS

Unfortunately, it is often rather easy to fool **getlogin()**. Sometimes it does not work at all, because some program messed up the utmp file. Often, it gives only the first 8 characters of the login name. The user currently logged in on the controlling terminal of our program need not be the user who started it. Avoid **getlogin()** for security-related purposes.

Note that glibc does not follow the POSIX specification and uses *stdin* instead of */dev/tty*. A bug. (Other recent systems, like SunOS 5.8 and HP-UX 11.11 and FreeBSD 4.8 all return the login name also when *stdin* is redirected.)

Nobody knows precisely what **cuserid()** does; avoid it in portable programs. Or avoid it altogether: use **getpwuid(geteuid())** instead, if that is what you meant. **Do not use cuserid()**.

SEE ALSO

logname(1), **geteuid(2)**, **getuid(2)**, **utmp(5)**

COLOPHON

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