

NAME

getuid, geteuid – get user identity

LIBRARY

Standard C library (*libc*, *-lc*)

SYNOPSIS

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

```
uid_t getuid(void);  
uid_t geteuid(void);
```

DESCRIPTION

getuid() returns the real user ID of the calling process.

geteuid() returns the effective user ID of the calling process.

ERRORS

These functions are always successful and never modify *errno*.

STANDARDS

POSIX.1-2001, POSIX.1-2008, 4.3BSD.

NOTES**History**

In UNIX V6 the **getuid()** call returned $(\text{euid} \ll 8) + \text{uid}$. UNIX V7 introduced separate calls **getuid()** and **geteuid()**.

The original Linux **getuid()** and **geteuid()** system calls supported only 16-bit user IDs. Subsequently, Linux 2.4 added **getuid32()** and **geteuid32()**, supporting 32-bit IDs. The glibc **getuid()** and **geteuid()** wrapper functions transparently deal with the variations across kernel versions.

On Alpha, instead of a pair of **getuid()** and **geteuid()** system calls, a single **getxuid()** system call is provided, which returns a pair of real and effective UIDs. The glibc **getuid()** and **geteuid()** wrapper functions transparently deal with this. See **syscall(2)** for details regarding register mapping.

SEE ALSO

getresuid(2), **setreuid(2)**, **setuid(2)**, **credentials(7)**