NAME

```
getpwent, setpwent, endpwent - get password file entry
```

LIBRARY

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

SYNOPSIS

```
#include <sys/types.h>
#include <pwd.h>
struct passwd *getpwent(void);
void setpwent(void);
void endpwent(void);
```

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

DESCRIPTION

The **getpwent()** function returns a pointer to a structure containing the broken-out fields of a record from the password database (e.g., the local password file /etc/passwd, NIS, and LDAP). The first time**getp-went()** is called, it returns the first entry; thereafter, it returns successive entries.

The **setpwent**() function rewinds to the beginning of the password database.

The endpwent() function is used to close the password database after all processing has been performed.

The *passwd* structure is defined in *<pwd.h>* as follows:

For more information about the fields of this structure, see **passwd**(5).

RETURN VALUE

The **getpwent**() function returns a pointer to a *passwd* structure, or NULL if there are no more entries or an error occurred. If an error occurs, *errno* is set to indicate the error. If one wants to check *errno* after the call, it should be set to zero before the call.

The return value may point to a static area, and may be overwritten by subsequent calls to **getpwent()**, **get-pwnam(3)**, or **getpwuid(3)**. (Do not pass the returned pointer to**fr ee(3)**.)

ERRORS

EINTR

A signal was caught; see **signal**(7).

EIO I/O error.

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.

ENOMEM

Insufficient memory to allocate passwd structure.

ERANGE

Insufficient buffer space supplied.

FILES

/etc/passwd

local password database file

ATTRIBUTES

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

Interface	Attribute	Value
getpwent()	Thread safety	MT-Unsafe race:pwent race:pwentbuf locale
setpwent(), endpwent()	Thread safety	MT-Unsafe race:pwent locale

In the above table, *pwent* in *race:pwent* signifies that if any of the functions **setpwent**(), **getpwent**(), or **endpwent**() are used in parallel in different threads of a program, then data races could occur.

STANDARDS

POSIX.1-2001, POSIX.1-2008, SVr4, 4.3BSD. The *pw_gecos* field is not specified in POSIX, but is present on most implementations.

SEE ALSO

 $fgetpwent(3), getpw(3), getpwent_r(3), getpwnam(3), getpwuid(3), putpwent(3), passwd(5)\\$