NAME

getpwent, setpwent, endpwent - get password file entry

SYNOPSIS

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 **getpwent()** is called, it returns the first entry; thereafter, it returns successive entries.

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

|| /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE

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:

When **shadow**(5) passwords are enabled (which is default on many GNU/Linux installations) the content of *pw passwd* is usually not very useful. In such a case most passwords are stored in a separate file.

The variable *pw_shell* may be empty, in which case the system will execute the default shell (**/bin/sh**) for the user.

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 appropriately. 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()**, **getpwnam(3)**, or **getpwuid(3)**. (Do not pass the returned pointer to **free(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.

CONFORMING TO

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

 $\label{eq:continuous} \textbf{fgetpwent}(3), \quad \textbf{getpw}(3), \quad \textbf{getpwent}_\textbf{r}(3), \quad \textbf{getpwnam}(3), \quad \textbf{getpwuid}(3), \quad \textbf{putpwent}(3), \quad \textbf{shadow}(5), \\ \textbf{passwd}(5)$

COLOPHON

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