NAME

pwcache, **user_from_uid**, **group_from_gid** - cache password and group entries

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <pwd.h>

const char *
user_from_uid(*uid_t uid*, *int nouser*);

int
uid_from_user(*const char *name*, *uid_t *uid*);

int
pwcache_userdb(*int (*setpassent)(int)*, *void (*endpwent)(void)*,
    struct passwd * (*getpwnam)(const char *), *struct passwd * (*getpwuid)(uid_t)*);

#include <grp.h>

const char *
group_from_gid(*gid_t gid*, *int nogroup*);

int
gid_from_group(*const char *name*, *gid_t *gid*);

int
pwcache_groupdb(*int (*setgroupent)(int)*, *void (*endgrent)(void)*,
    struct group * (*getgrnam)(const char *), *struct group * (*getgrgid)(gid_t)*);

DESCRIPTION

The **user_from_uid**() function returns the user name associated with the argument *uid*. The user name is cached so that multiple calls with the same *uid* do not require additional calls to getpwuid(3). If there is no user associated with the *uid*, a pointer is returned to a string representation of the *uid*, unless the argument *nouser* is non-zero, in which case a NULL pointer is returned.

The **group_from_gid**() function returns the group name associated with the argument *gid*. The group name is cached so that multiple calls with the same *gid* do not require additional calls to getgrgid(3). If there is no group associated with the *gid*, a pointer is returned to a string representation of the *gid*, unless

the argument *nogroup* is non-zero, in which case a NULL pointer is returned.

The **uid_from_user**() function returns the uid associated with the argument *name*. The uid is cached so that multiple calls with the same *name* do not require additional calls to getpwnam(3). If there is no uid associated with the *name*, the **uid_from_user**() function returns -1; otherwise it stores the uid at the location pointed to by *uid* and returns 0.

The **gid_from_group**() function returns the gid associated with the argument *name*. The gid is cached so that multiple calls with the same *name* do not require additional calls to getgrnam(3). If there is no gid associated with the *name*, the **gid_from_group**() function returns -1; otherwise it stores the gid at the location pointed to by *gid* and returns 0.

The **pwcache_userdb**() function changes the user database access routines which **user_from_uid**() and **uid_from_user**() call to search for users. The caches are flushed and the existing **endpwent**() method is called before switching to the new routines. *getpwnam* and *getpwuid* must be provided, and *setpassent* and *endpwent* may be NULL pointers.

The **pwcache_groupdb**() function changes the group database access routines which **group_from_gid**() and **gid_from_group**() call to search for groups. The caches are flushed and the existing **endgrent**() method is called before switching to the new routines. *getgrnam* and *getgrgid* must be provided, and *setgroupent* and *endgrent* may be NULL pointers.

ERRORS
If insufficient memory is available, **user_from_uid**() and **group_from_gid**() may return NULL pointers. *errno* is set to ENOMEM.

SEE ALSO
getgrgid(3), getgrnam(3), getpwnam(3), getpwuid(3)

HISTORY
The **user_from_uid**() and **group_from_gid**() functions first appeared in 4.4BSD.

The **uid_from_user**() and **gid_from_group**() functions first appeared in NetBSD 1.4.

The **pwcache_userdb**() and **pwcache_groupdb**() functions first appeared in NetBSD 1.6 and FreeBSD 10.0.