NAME

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pwcache, user from uid, group from gid - cache password and group entries
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LIBRARY

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Standard C Library (libc, -lc)
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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.