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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'getgrgid.3' command

\$ man getgrgid.3

GETGRNAM(3) Linux Programmer's Manual GETGRNAM(3)

NAME

getgrnam, getgrnam_r, getgrgid, getgrgid_r - get group file entry

SYNOPSIS

DESCRIPTION

The getgrnam() function returns a pointer to a structure containing the broken-out fields of the record in the group database (e.g., the local group file /etc/group, NIS, and LDAP) that matches the group name name. The getgrgid() function returns a pointer to a structure containing the broken-out fields of the record in the group database that matches the group ID gid.

Page 1/4

The group structure is defined in <grp.h> as follows:

For more information about the fields of this structure, see group(5). The getgrnam_r() and getgrgid_r() functions obtain the same information as getgrnam() and getgrgid(), but store the retrieved group structure in the space pointed to by grp. The string fields pointed to by the members of the group structure are stored in the buffer buf of size bu? flen. A pointer to the result (in case of success) or NULL (in case no entry was found or an error occurred) is stored in *result.

The call

```
sysconf(_SC_GETGR_R_SIZE_MAX)
```

returns either -1, without changing errno, or an initial suggested size for buf. (If this size is too small, the call fails with ERANGE, in which case the caller can retry with a larger buffer.)

RETURN VALUE

The getgrnam() and getgrgid() functions return a pointer to a group structure, or NULL if the matching entry is not found or an error oc? curs. 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 getgrent(3), getgrgid(), or getgrnam(). (Do not pass the returned pointer to free(3).)

On success, getgrnam_r() and getgrgid_r() return zero, and set *result to grp. If no matching group record was found, these functions return 0 and store NULL in *result. In case of error, an error number is re? turned, and NULL is stored in *result.

ERRORS Page 2/4

0 or ENOENT or ESRCH or EBADF or EPERM or ...

The given name or gid was not found.

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 group structure.

ERANGE Insufficient buffer space supplied.

FILES

/etc/group

local group database file

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

?

?Interface ? Attribute ? Value

?getgrnam() ? Thread safety ? MT-Unsafe race:grnam locale ?

?getgrgid() ? Thread safety ? MT-Unsafe race:grgid locale ?

?getgrnam_r(), ? Thread safety ? MT-Safe locale

?getgrgid_r() ? ?

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, SVr4, 4.3BSD.

NOTES

The formulation given above under "RETURN VALUE" is from POSIX.1. It does not call "not found" an error, hence does not specify what value errno might have in this situation. But that makes it impossible to recognize errors. One might argue that according to POSIX errno should

be left unchanged if an entry is not found. Experiments on various UNIX-like systems show that lots of different values occur in this sit? uation: 0, ENOENT, EBADF, ESRCH, EWOULDBLOCK, EPERM, and probably oth? ers.

SEE ALSO

endgrent(3), fgetgrent(3), getgrent(3), getpwnam(3), setgrent(3),
group(5)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

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