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# Rocky Enterprise Linux 9.2 Manual Pages on command 'fgetgrent\_r.3'

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$ man fgetgrent_r.3
GETGRENT_R(3)
                               Linux Programmer's Manual
                                                                         GETGRENT_R(3)
NAME
    getgrent_r, fgetgrent_r - get group file entry reentrantly
SYNOPSIS
    #include <grp.h>
    int getgrent_r(struct group *gbuf, char *buf,
             size_t buflen, struct group **gbufp);
    int fgetgrent r(FILE *stream, struct group *gbuf, char *buf,
             size t buflen, struct group **gbufp);
 Feature Test Macro Requirements for glibc (see feature_test_macros(7)):
    getgrent_r(): _GNU_SOURCE
    fgetgrent_r():
      Since glibc 2.19:
         _DEFAULT_SOURCE
      Glibc 2.19 and earlier:
         SVID SOURCE
DESCRIPTION
    The functions getgrent_r() and fgetgrent_r() are the reentrant versions of getgrent(3) and
    fgetgrent(3). The former reads the next group entry from the stream initialized by set?
    grent(3). The latter reads the next group entry from stream.
    The group structure is defined in <grp.h> as follows:
```

/\* group name \*/

struct group {

char \*gr\_name;

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

The nonreentrant functions return a pointer to static storage, where this static storage contains further pointers to group name, password and members. The reentrant functions described here return all of that in caller-provided buffers. First of all there is the buffer gbuf that can hold a struct group. And next the buffer buf of size buflen that can hold additional strings. The result of these functions, the struct group read from the stream, is stored in the provided buffer \*gbuf, and a pointer to this struct group is re? turned in \*gbufp.

#### **RETURN VALUE**

On success, these functions return 0 and \*gbufp is a pointer to the struct group. On er? ror, these functions return an error value and \*gbufp is NULL.

### **ERRORS**

**ENOENT** No more entries.

ERANGE Insufficient buffer space supplied. Try again with larger buffer.

#### **ATTRIBUTES**

## **CONFORMING TO**

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tions like getpwnam_r(3). Other systems use the prototype
       struct group *getgrent_r(struct group *grp, char *buf,
                      int buflen);
    or, better,
       int getgrent_r(struct group *grp, char *buf, int buflen,
                FILE **gr_fp);
NOTES
    The function getgrent_r() is not really reentrant since it shares the reading position in
    the stream with all other threads.
EXAMPLES
    #define _GNU_SOURCE
    #include <grp.h>
    #include <stdio.h>
    #include <stdint.h>
    #include <stdlib.h>
    #define BUFLEN 4096
    int
    main(void)
    {
       struct group grp;
       struct group *grpp;
       char buf[BUFLEN];
       int i;
       setgrent();
       while (1) {
         i = getgrent_r(&grp, buf, sizeof(buf), &grpp);
         if (i)
            break:
         printf("%s (%jd):", grpp->gr_name, (intmax_t) grpp->gr_gid);
         for (int j = 0; j++) {
            if (grpp->gr_mem[j] == NULL)
              break;
            printf(" %s", grpp->gr_mem[j]);
```

```
}
printf("\n");
}
endgrent();
exit(EXIT_SUCCESS);
}

SEE ALSO
fgetgrent(3), getgrent(3), getgrgid(3), getgrnam(3), putgrent(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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