

NAME

getnetent_r, getnetbyname_r, getnetbyaddr_r – get network entry (reentrant)

SYNOPSIS

```
#include <netdb.h>
```

```
int getnetent_r(struct netent *result_buf, char *buf,
               size_t buflen, struct netent **result,
               int *h_errnop);
```

```
int getnetbyname_r(const char *name,
                  struct netent *result_buf, char *buf,
                  size_t buflen, struct netent **result,
                  int *h_errnop);
```

```
int getnetbyaddr_r(uint32_t net, int type,
                  struct netent *result_buf, char *buf,
                  size_t buflen, struct netent **result,
                  int *h_errnop);
```

Feature Test Macro Requirements for glibc (see **feature_test_macros(7)**):

```
getnetent_r(), getnetbyname_r(), getnetbyaddr_r():
```

Since glibc 2.19:

```
_DEFAULT_SOURCE
```

Glibc 2.19 and earlier:

```
_BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

The **getnetent_r()**, **getnetbyname_r()**, and **getnetbyaddr_r()** functions are the reentrant equivalents of, respectively, **getnetent(3)**, **getnetbyname(3)**, and **getnetbynumber(3)**. They differ in the way that the *netent* structure is returned, and in the function calling signature and return value. This manual page describes just the differences from the nonreentrant functions.

Instead of returning a pointer to a statically allocated *netent* structure as the function result, these functions copy the structure into the location pointed to by *result_buf*.

The *buf* array is used to store the string fields pointed to by the returned *netent* structure. (The nonreentrant functions allocate these strings in static storage.) The size of this array is specified in *buflen*. If *buf* is too small, the call fails with the error **ERANGE**, and the caller must try again with a larger buffer. (A buffer of length 1024 bytes should be sufficient for most applications.)

If the function call successfully obtains a network record, then **result* is set pointing to *result_buf*; otherwise, **result* is set to **NULL**.

The buffer pointed to by *h_errnop* is used to return the value that would be stored in the global variable *h_errno* by the nonreentrant versions of these functions.

RETURN VALUE

On success, these functions return 0. On error, they return one of the positive error numbers listed in **ERRORS**.

On error, record not found (**getnetbyname_r()**, **getnetbyaddr_r()**), or end of input (**getnetent_r()**) *result* is set to **NULL**.

ERRORS**ENOENT**

(**getnetent_r()**) No more records in database.

ERANGE

buf is too small. Try again with a larger buffer (and increased *buflen*).

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes(7)**.

Interface	Attribute	Value
getnetent_r() , getnetbyname_r() , getnetbyaddr_r()	Thread safety	MT-Safe locale

CONFORMING TO

These functions are GNU extensions. Functions with similar names exist on some other systems, though typically with different calling signatures.

SEE ALSO

getnetent(3), **networks(5)**

COLOPHON

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