

**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():
    _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*).

**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**

This page is part of release 3.74 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 <http://www.kernel.org/doc/man-pages/>.