

**NAME**

getnetent, getnetbyname, getnetbyaddr, setnetent, endnetent - get network entry

**SYNOPSIS**

```
#include <netdb.h>

struct netent *getnetent(void);

struct netent *getnetbyname(const char *name);

struct netent *getnetbyaddr(uint32_t net, int type);

void setnetent(int stayopen);

void endnetent(void);
```

**DESCRIPTION**

The **getnetent()** function reads the next entry from the networks database and returns a *netent* structure containing the broken-out fields from the entry. A connection is opened to the database if necessary.

The **getnetbyname()** function returns a *netent* structure for the entry from the database that matches the network *name*.

The **getnetbyaddr()** function returns a *netent* structure for the entry from the database that matches the network number *net* of type *type*. The *net* argument must be in host byte order.

The **setnetent()** function opens a connection to the database, and sets the next entry to the first entry. If *stayopen* is nonzero, then the connection to the database will not be closed between calls to one of the **getnet\*()** functions.

The **endnetent()** function closes the connection to the database.

The *netent* structure is defined in *<netdb.h>* as follows:

```
struct netent {
    char *n_name; /* official network name */
    char **n_aliases; /* alias list */
    int n_addrtype; /* net address type */
    uint32_t n_net; /* network number */
}
```

The members of the *netent* structure are:

*n\_name*

The official name of the network.

*n\_aliases*

A NULL-terminated list of alternative names for the network.

*n\_addrtype*

The type of the network number; always **AF\_INET**.

*n\_net*

The network number in host byte order.

**RETURN VALUE**

The **getnetent()**, **getnetbyname()** and **getnetbyaddr()** functions return a pointer to a statically allocated *netent* structure, or a null pointer if an error occurs or the end of the file is reached.

**FILES**

*/etc/networks*

networks database file

**CONFORMING TO**

4.3BSD, POSIX.1-2001.

**NOTES**

In glibc versions before 2.2, the *net* argument of `getnetbyaddr()` was of type *long*.

**SEE ALSO**

[getnetent\\_r\(3\)](#), [getprotoent\(3\)](#), [getservent\(3\)](#)

RFC 1101

**COLOPHON**

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