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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