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

ATTRIBUTES

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

Interface	Attribute	Value
getnetent()	Thread safety	MT-Unsafe race:netent race:netentbuf env locale
getnetbyname()	Thread safety	MT-Unsafe race:netbyname env locale
getnetbyaddr()	Thread safety	MT-Unsafe race:netbyaddr locale
setnetent(), **endnetent**()	Thread safety	MT-Unsafe race:netent env locale

In the above table, *netent* in *race:netent* signifies that if any of the functions **setnetent**(), **getnetent**(), or **endnetent**() are used in parallel in different threads of a program, then data races could occur.

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, 4.3BSD.

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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