



Linux Ubuntu 26.04 Manual Pages on command 'getnetbyname.3'

\$ man getnetbyname.3

getnetent(3) Library Functions Manual getnetent(3)

NAME

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

LIBRARY

Standard C library (libc, -lc)

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)`.

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? Interface	? Attribute	? Value	?
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? <code>getnetent()</code>	? Thread safety	? MT-Unsafe race:netent race:netentbuf env	?
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?	?	? locale	?
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? <code>getnetbyname()</code>	? Thread safety	? MT-Unsafe race:netbyname env locale	?
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? <code>getnetbyaddr()</code>	? Thread safety	? MT-Unsafe race:netbyaddr locale	?
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