



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

\$ man if_nametoindex.3

if_nametoindex(3) Library Functions Manual if_nametoindex(3)

NAME

if_nametoindex, if_indextoname - mappings between network interface names and indexes

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <net/if.h>

unsigned int if_nametoindex(const char *ifname);

char *if_indextoname(unsigned int ifindex, char *ifname);
```

DESCRIPTION

The if_nametoindex() function returns the index of the network interface corresponding to the name ifname.

The if_indextoname() function returns the name of the network interface corresponding to the interface index ifindex. The name is placed in the buffer pointed to by ifname. The buffer must allow for the storage of at least IF_NAMESIZE bytes.

RETURN VALUE

On success, if_nametoindex() returns the index number of the network interface; on error, 0 is returned and errno is set to indicate the error.

On success, if_indextoname() returns ifname; on error, NULL is returned and errno is set to indicate the error.

ERRORS

if_nametoindex() may fail and set errno if:

ENODEV No interface found with given name.

ENXIO No interface found for the index.

if_nametoindex() and if_indextoname() may also fail for any of the errors specified for socket(2) or ioctl(2).

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
if_nametoindex(), if_indextoname()	Thread safety	MT-Safe

POSIX.1-2008, RFC 3493.

POSIX.1-2001. BSDi.

```
getifaddrs(3), if_nameindex(3), ifconfig(8)
```