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 *if-name*.

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.

if_indextoname() may fail and set *errno* if:

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).

ATTRIBUTES

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

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

STANDARDS

POSIX.1-2001, POSIX.1-2008, RFC 3493.

This function first appeared in BSDi.

SEE ALSO

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