NAME

getnetpath, setnetpath, endnetpath – get /etc/netconfig entry corresponding to NETPATH component

SYNOPSIS

#include <netconfig.h>

struct netconfig ∗getnetpath(void ∗*handlep***);**

void ∗setnetpath(void);

int endnetpath(void ∗*handlep***);**

MT-LEVEL

MT-Safe

DESCRIPTION

The routines described on this page are part of the Network Selection component. They provide the application access to the system network configuration database, **/etc/netconfig**, as it is ''filtered'' by the **NETPATH** environment variable (see **environ**(5)). See **getnetconfig**(3N) for other routines that also access the network configuration database directly. The **NETPATH** variable is a list of colon-separated network identifiers.

getnetpath( ) returns a pointer to the **netconfig** database entry corresponding to the first valid **NETPATH** component. The **netconfig** entry is formatted as a **struct netconfig**. On each subsequent call, **getnetpath( )** returns a pointer to the **netconfig** entry that corresponds to the next valid **NETPATH** component. **getnetpath( )** can thus be used to search the **netconfig** database for all networks included in the **NETPATH** variable. When **NETPATH** has been exhausted, **getnetpath( )** returns NULL.

A call to **setnetpath( )** ''binds'' to or ''rewinds'' **NETPATH**. **setnetpath( )** must be called before the first call to **getnetpath( )** and may be called at any other time. It returns a handle that is used by **getnetpath( )**.

getnetpath( ) silently ignores invalid **NETPATH** components. A **NETPATH** component is invalid if there is no corresponding entry in the **netconfig** database.

If the **NETPATH** variable is *unset*, **getnetpath( )** behaves as if **NETPATH** were set to the sequence of ''default'' or ''visible'' networks in the **netconfig** database, in the order in which they are listed.

endnetpath( ) may be called to ''unbind'' from **NETPATH** when processing is complete, releasing resources for reuse. Programmers should be aware, however, that **endnetpath( )** frees all memory allocated by **getnetpath( )** for the **struct netconfig** data structure. **endnetpath( )** returns **0** on success and **-1** on failure (for example, if **setnetpath( )** was not called previously).

RETURN VALUES

setnetpath( ) returns a handle that is used by **getnetpath( )**. In case of an error, **setnetpath( )** returns NULL. **nc_perror( )** or **nc_sperror( )** can be used to print out the reason for failure. See **getnetconfig**(3N).

When first called, **getnetpath( )** returns a pointer to the **netconfig** database entry corresponding to the first valid **NETPATH** component. When **NETPATH** has been exhausted, **getnetpath( )** returns NULL.

endnetpath( ) returns **0** on success and **-1** on failure (for example, if **setnetpath( )** was not called previously).

SEE ALSO

getnetconfig(3N), **netconfig**(4), **environ**(5)

ONC+ Developers Guide
Transport Interfaces Programming Guide