

NAME

getnetconfig, **setnetconfig**, **endnetconfig**, **getnetconfigent**, **freenetconfigent**, **nc_perror**, **nc_sperror** - get network configuration database entry

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <netconfig.h>
```

```
struct netconfig *  
getnetconfig(void *handlep);
```

```
void *  
setnetconfig(void);
```

```
int  
endnetconfig(void *handlep);
```

```
struct netconfig *  
getnetconfigent(const char *netid);
```

```
void  
freenetconfigent(struct netconfig *netconfigp);
```

```
void  
nc_perror(const char *msg);
```

```
char *  
nc_sperror(void);
```

DESCRIPTION

The library routines described on this page provide the application access to the system network configuration database, */etc/netconfig*. The **getnetconfig()** function returns a pointer to the current entry in the netconfig database, formatted as a *struct netconfig*. Successive calls will return successive netconfig entries in the netconfig database. The **getnetconfig()** function can be used to search the entire netconfig file. The **getnetconfigent()** function returns NULL at the end of the file. The *handlep* argument is the handle obtained through **setnetconfig()**.

A call to **setnetconfig()** has the effect of "binding" to or "rewinding" the netconfig database. The

setnetconfig() function must be called before the first call to **getnetconfig()** and may be called at any other time. The **setnetconfig()** function need not be called before a call to **getnetconfig()**. The **setnetconfig()** function returns a unique handle to be used by **getnetconfig()**.

The **endnetconfig()** function should be called when processing is complete to release resources for reuse. The *handlep* argument is the handle obtained through **setnetconfig()**. Programmers should be aware, however, that the last call to **endnetconfig()** frees all memory allocated by **getnetconfig()** for the *struct netconfig* data structure. The **endnetconfig()** function may not be called before **setnetconfig()**.

The **getnetconfigent()** function returns a pointer to the netconfig structure corresponding to *netid*. It returns NULL if *netid* is invalid (that is, does not name an entry in the netconfig database).

The **freenetconfigent()** function frees the netconfig structure pointed to by *netconfigp* (previously returned by **getnetconfigent()**).

The **nc_perror()** function prints a message to the standard error indicating why any of the above routines failed. The message is prepended with the string *msg* and a colon. A newline character is appended at the end of the message.

The **nc_spperror()** function is similar to **nc_perror()** but instead of sending the message to the standard error, will return a pointer to a string that contains the error message.

The **nc_perror()** and **nc_spperror()** functions can also be used with the NETPATH access routines defined in `getnetpath(3)`.

RETURN VALUES

The **setnetconfig()** function returns a unique handle to be used by **getnetconfig()**. In the case of an error, **setnetconfig()** returns NULL and **nc_perror()** or **nc_spperror()** can be used to print the reason for failure.

The **getnetconfig()** function returns a pointer to the current entry in the netconfig database, formatted as a *struct netconfig*. The **getnetconfig()** function returns NULL at the end of the file, or upon failure.

The **endnetconfig()** function returns 0 on success and -1 on failure (for example, if **setnetconfig()** was not called previously).

On success, **getnetconfigent()** returns a pointer to the *struct netconfig* structure corresponding to *netid*; otherwise it returns NULL.

The **nc_spperror()** function returns a pointer to a buffer which contains the error message string. This buffer is overwritten on each call. In multithreaded applications, this buffer is implemented as thread-

specific data.

FILES

/etc/netconfig

SEE ALSO

getnetpath(3), netconfig(5)