NAME

getprotoent, getprotobyname, getprotobynumber, setprotoent, endprotoent - get protocol entry

SYNOPSIS

#include <netdb.h>

struct protoent *getprotoent(void);

struct protoent *getprotobyname(const char **name***);**

struct protoent *getprotobynumber(int *proto***);**

void setprotoent(int *stayopen***);**

void endprotoent(void);

DESCRIPTION

The **getprotoent**() function reads the next entry from the protocols database (see protocols(5)) and returns a *protoent* structure containing the broken-out fields from the entry. A connection is opened to the database if necessary.

The **getprotobyname**() function returns a *protoent* structure for the entry from the database that matches the protocol name *name*. A connection is opened to the database if necessary.

The **getprotobynumber**() function returns a *protoent* structure for the entry from the database that matches the protocol number *number*. A connection is opened to the database if necessary.

The **setprotoent**() 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 **getproto***() functions.

The **endprotoent**() function closes the connection to the database.

The *protoent* structure is defined in *<netdb.h>* as follows:

```
struct protoent {
char *p_name; /* official protocol name */
char **p_aliases; /* alias list */
int p_proto; /* protocol number */
}
```

The members of the *protoent* structure are:

p_name
        The official name of the protocol.

p_aliases
        A NULL-terminated list of alternative names for the protocol.

p_proto
        The protocol number.

RETURN VALUE

The **getprotoent**(), **getprotobyname**() and **getprotobynumber**() functions return a pointer to a statically allocated *protoent* structure, or a null pointer if an error occurs or the end of the file is reached.

FILES

/etc/protocols
        protocol database file

CONFORMING TO

4.3BSD, POSIX.1-2001.

SEE ALSO

getnetent(3), getprotoent_r(3), getservent(3), protocols(5)

COLOPHON

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