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Rocky Enterprise Linux 9.2 Manual Pages on command 'getprotobynumber.3'

\$ man getprotobynumber.3

GETPROTOENT(3) Linux Programmer's Manual GETPROTOENT(3)

NAME

getprotoent, getprotobynumber, setprotoent, endprotoent

- get protocol entry

SYNOPSIS

```
#include <netdb.h>

struct protoent *getprotoent(void);

struct protoent *getprotobynumber(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 `getprotobynumber()` function returns a `protoent` structure for the entry from the database that matches the protocol name `name`. A connection is made to the database if necessary.

tion 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. 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()`, `getprotobynumber()`, 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

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

```
?????????????????????????????????????????????????????????????????????????  
?getprotoent() ? Thread safety ? MT-Unsafe race:protoent ?  
? ? ? race:protoentbuf locale ?  
?????????????????????????????????????????????????????????????????????????  
?getprotobynumber() ? Thread safety ? MT-Unsafe race:protobynumber ?  
? ? ? locale ?  
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?getprotobynumber() ? Thread safety ? MT-Unsafe race:protobynumber ?  
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?????????????????????????????????????????????????????????????????????????  
?setprotoent(), ? Thread safety ? MT-Unsafe race:protoent ?  
?endprotoent() ? ? locale ?  
?????????????????????????????????????????????????????????????????????????
```

In the above table, protoent in race:protoent signifies that if any of the functions setprotoent(), getprotoent(), or endprotoent() are used in parallel in different threads of a program, then data races could occur.

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, 4.3BSD.

SEE ALSO

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

COLOPHON

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