



## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'getprotoent.3'***

**C:\>man getprotoent.3**

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

### NAME

getprotoent, getprotobyname, getprotobynumber, setprotoent, endprotoent - get pro?  
tocol 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 data? base 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 data?

base 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

#### ATTRIBUTES

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

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?Interface ? Attribute ? Value ?

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?getprotoent() ? Thread safety ? MT-Unsafe race:protoent ?

? ? ? race:protoentbuf locale ?

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?getprotobyname() ? Thread safety ? MT-Unsafe race:protobyname ?

? ? ? locale ?

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