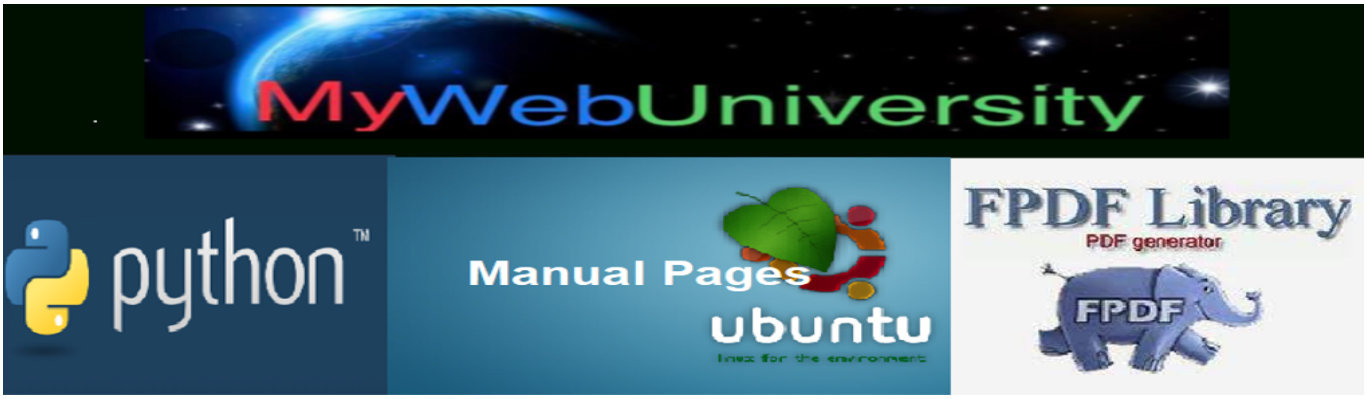

Rocky Enterprise Linux 9.2 Manual Pages on command 'setprotoent.3'

$ man setprotoent.3

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

NAME

getprotoent, getprotobyname, getprotobynumber, setprotoent, endprotoent - get protocol en?

try

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 proto?

cols(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 data?

base 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

ATTRIBUTES

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

Interface	Attribute	Value
getprotoent()	Thread safety	MT-Unsafe race:protoent race:protoentbuf locale
getprotobyname()	Thread safety	MT-Unsafe race:protobyname locale
getprotobynumber()	Thread safety	MT-Unsafe race:protobynumber locale

??

?setprotoent(), ? Thread safety ? MT-Unsafe race:protoent ?

?endprotoent() ? ? locale ?

??

In the above table, protoent in race:protoent signifies that if any of the functions set? protoent(), 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

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.