NAME

getservent, getservbyname, getservbyport, setservent, endservent - get service entry

SYNOPSIS

```
#include <netdb.h>
struct servent *getservent(void);
struct servent *getservbyname(const char *name, const char *proto);
struct servent *getservbyport(int port, const char *proto);
void setservent(int stayopen);
void endservent(void);
```

DESCRIPTION

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

The **getservbyname**() function returns a *servent* structure for the entry from the database that matches the service *name* using protocol *proto*. If *proto* is NULL, any protocol will be matched. A connection is opened to the database if necessary.

The **getservbyport**() function returns a *servent* structure for the entry from the database that matches the port *port* (given in network byte order) using protocol *proto*. If *proto* is NULL, any protocol will be matched. A connection is opened to the database if necessary.

The **setservent**() 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 **get-serv***() functions.

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

The *servent* structure is defined in *netdb.h* as follows:

The members of the *servent* structure are:

s_name

The official name of the service.

 $s_aliases$

A NULL-terminated list of alternative names for the service.

s_port The port number for the service given in network byte order.

s_proto The name of the protocol to use with this service.

RETURN VALUE

The **getservent**(), **getservbyname**() and **getservbyport**() functions return a pointer to a statically allocated *servent* structure, or NULL if an error occurs or the end of the file is reached.

FILES

```
/etc/services
```

services database file

ATTRIBUTES

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

Interface	Attribute	Value
getservent()	Thread safety	MT-Unsafe race:servent
		race:serventbuf locale
getservbyname()	Thread safety	MT-Unsafe race:servbyname
		locale
getservbyport()	Thread safety	MT-Unsafe race:servbyport
		locale
setservent(),	Thread safety	MT-Unsafe race:servent
endservent()		locale

In the above table, *servent* in *race:servent* signifies that if any of the functions **setservent**(), **getservent**(), or **endservent**() 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(3), getservent_r(3), services(5)

COLOPHON

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