NAME

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

LIBRARY

```
Standard C library (libc, -lc)
```

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 *pr oto* 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(), endservent()	Thread safety	MT-Unsafe race:servent 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.

STANDARDS

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

SEE ALSO

getnetent(3), getprotoent(3), getservent_r(3), services(5)