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 **getserv***() functions.

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

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

```
struct servent {
char *s_name; /* official service name */
char **s_aliases; /* alias list */
int s_port; /* port number */
char *s_proto; /* protocol to use */
}
```

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.

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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