NAME

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

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <netdb.h>

*struct servent **
getservent();

*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**(), **getservbyname**(), and **getservbyport**() functions each return a pointer to an object with the following structure containing the broken-out fields of a line in the network services data base, */etc/services*.

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

The members of this structure are:

s_name The official name of the service.

s_aliases A zero terminated list of alternate names for the service.

s_port The port number at which the service resides. Port numbers are returned in network byte order.

s_proto The name of the protocol to use when contacting the service.

The **getservent**() function reads the next line of the file, opening the file if necessary.

The **setservent**() function opens and rewinds the file. If the *stayopen* flag is non-zero, the net data base will not be closed after each call to **getservbyname**() or **getservbyport**().

The **endservent**() function closes the file.

The **getservbyname**() and **getservbyport**() functions sequentially search from the beginning of the file until a matching protocol name or port number (which must be specified in network byte order) is found, or until EOF is encountered. If a protocol name is also supplied (non- NULL), searches must also match the protocol.

FILES

/etc/services
/var/db/services.db

DIAGNOSTICS

Null pointer returned on EOF or error.

SEE ALSO

getprotoent(3), services(5), services_mkdb(8)

HISTORY

The **getservent**(), **getservbyport**(), **getservbyname**(), **setservent**(), and **endservent**() functions appeared in 4.2BSD.

BUGS

These functions use a thread-specific data storage; if the data is needed for future use, it should be copied before any subsequent calls overwrite it. Expecting port numbers to fit in a 32 bit quantity is probably naive.