

**NAME**

getrpcent, getrpcbyname, getrpcbynumber, setrpcent, endrpcent - get RPC entry

**SYNOPSIS**

```
#include <netdb.h>

struct rpcent *getrpcent(void);

struct rpcent *getrpcbyname(const char *name);

struct rpcent *getrpcbynumber(int number);

void setrpcent(int stayopen);

void endrpcent(void);
```

**DESCRIPTION**

The **getrpcent()**, **getrpcbyname()**, and **getrpcbynumber()** functions each return a pointer to an object with the following structure containing the broken-out fields of an entry in the RPC program number data base.

```
struct rpcent {
    char *r_name; /* name of server for this RPC program */
    char **r_aliases; /* alias list */
    long r_number; /* RPC program number */
};
```

The members of this structure are:

*r\_name*        The name of the server for this RPC program.  
*r\_aliases*     A NULL-terminated list of alternate names for the RPC program.  
*r\_number*     The RPC program number for this service.

The **getrpcent()** function reads the next entry from the database. A connection is opened to the database if necessary.

The **setrpcent()** 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 **getrpc\***() functions.

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

The **getrpcbyname()** and **getrpcbynumber()** functions sequentially search from the beginning of the file until a matching RPC program name or program number is found, or until end-of-file is encountered.

**RETURN VALUE**

On success, **getrpcent()**, **getrpcbyname()**, and **getrpcbynumber()** return a pointer to a statically allocated *rpcent* structure. NULL is returned on EOF or error.

**FILES**

*/etc/rpc*  
     RPC program number database.

**CONFORMING TO**

Not in POSIX.1-2001. Present on the BSDs, Solaris, and many other systems.

**BUGS**

All information is contained in a static area so it must be copied if it is to be saved.

**SEE ALSO**

[getrpcent\\_r\(3\)](#), [rpc\(5\)](#), [rpcinfo\(8\)](#), [ypserv\(8\)](#)

**COLOPHON**

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