### **NAME**

rpcb\_getmaps, rpcb\_getaddr, rpcb\_gettime, rpcb\_rmtcall, rpcb\_set, rpcb\_unset - library routines for RPC bind service

### **LIBRARY**

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

### **SYNOPSIS**

```
#include <rpc/rpc.h>
```

```
rpcblist *
```

**rpcb\_getmaps**(const struct netconfig \*netconf, const char \*host);

bool t

**rpcb\_getaddr**(const rpcprog\_t prognum, const rpcvers\_t versnum, const struct netconfig \*netconf, struct netbuf \*svcaddr, const char \*host);

 $bool\_t$ 

rpcb\_gettime(const char \*host, time\_t \* timep);

enum clnt\_stat

bool t

**rpcb\_set**(const rpcprog\_t prognum, const rpcvers\_t versnum, const struct netconfig \*netconf, const struct netbuf \*svcaddr);

 $bool\_t$ 

rpcb\_unset(const rpcprog\_t prognum, const rpcvers\_t versnum, const struct netconfig \*netconf);

### DESCRIPTION

These routines allow client C programs to make procedure calls to the RPC binder service. (see rpcbind(8)) maintains a list of mappings between programs and their universal addresses.

### **Routines**

## rpcb\_getmaps()

An interface to the rpcbind service, which returns a list of the current RPC program-to-address mappings on *host*. It uses the transport specified through *netconf* to contact the remote

rpcbind service on *host*. This routine will return NULL, if the remote rpcbind could not be contacted.

# rpcb\_getaddr()

An interface to the rpcbind service, which finds the address of the service on *host* that is registered with program number *prognum*, version *versnum*, and speaks the transport protocol associated with *netconf*. The address found is returned in *svcaddr*. The *svcaddr* argument should be preallocated. This routine returns TRUE if it succeeds. A return value of FALSE means that the mapping does not exist or that the RPC system failed to contact the remote rpcbind service. In the latter case, the global variable *rpc\_createerr* (see rpc\_clnt\_create(3)) contains the RPC status.

## rpcb\_gettime()

This routine returns the time on *host* in *timep*. If *host* is NULL, **rpcb\_gettime**() returns the time on its own machine. This routine returns TRUE if it succeeds, FALSE if it fails. The **rpcb\_gettime**() function can be used to synchronize the time between the client and the remote server.

# rpcb\_rmtcall()

An interface to the rpcbind service, which instructs rpcbind on *host* to make an RPC call on your behalf to a procedure on that host. The **netconfig**() structure should correspond to a connectionless transport. The *svcaddr* argument will be modified to the server's address if the procedure succeeds (see **rpc\_call**() and **clnt\_call**() in rpc\_clnt\_calls(3) for the definitions of other arguments).

This procedure should normally be used for a "ping" and nothing else. This routine allows programs to do lookup and call, all in one step.

Note: Even if the server is not running **rpcb\_rmtcall**() does not return any error messages to the caller. In such a case, the caller times out.

Note: **rpcb\_rmtcall**() is only available for connectionless transports.

### rpcb\_set()

An interface to the rpcbind service, which establishes a mapping between the triple [prognum, versnum, netconf->nc\_netid] and svcaddr on the machine's rpcbind service. The value of nc\_netid must correspond to a network identifier that is defined by the netconfig database. This routine returns TRUE if it succeeds, FALSE otherwise. (See also svc\_reg() in rpc\_svc\_calls(3).) If there already exists such an entry with rpcbind, rpcb\_set() will fail.

# rpcb\_unset()

An interface to the rpcbind service, which destroys the mapping between the triple [prognum, versnum, netconf->nc\_netid] and the address on the machine's rpcbind service. If netconf is NULL, rpcb\_unset() destroys all mapping between the triple [prognum, versnum, all-transports] and the addresses on the machine's rpcbind service. This routine returns TRUE if it succeeds, FALSE otherwise. Only the owner of the service or the super-user can destroy the mapping. (See also svc\_unreg() in rpc\_svc\_calls(3).)

## **SEE ALSO**

rpc\_clnt\_calls(3), rpc\_svc\_calls(3), rpcbind(8), rpcinfo(8)