

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
```

```
rpcb_rmtcall(const struct netconfig *netconf, const char *host, const rpcprog_t prognum, const rpcvers_t versnum, const rpcproc_t procnum, const xdrproc_t inproc, const caddr_t in, const xdrproc_t outproc, const caddr_t out, const struct timeval tout, const struct netbuf *svcaddr);
```

```
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 rpcbnd(8)) maintains a list of mappings between programs and their universal addresses.

Routines

rpcb_getmaps()

An interface to the rpcbnd 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-transport] 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)*