

NAME

rpc_soc, auth_destroy, authnone_create, authunix_create, authunix_create_default, callrpc, clnt_broadcast, clnt_call, clnt_control, clnt_create, clnt_destroy, clnt_freeres, clnt_geterr, clnt_pcreateerror, clnt_perrno, clnt_perror, clnt_screateerror, clnt_sperrno, clnt_sperror, clntraw_create, clnttcp_create, clntudp_bufcreate, clntudp_create, clntunix_create, get_myaddress, pmap_getmaps, pmap_getport, pmap_rmtcall, pmap_set, pmap_unset, registerrpc, rpc_createerr, svc_destroy, svc_fds, svc_fdset, svc_getargs, svc_getcaller, svc_getreq, svc_getreqset, svc_register, svc_run, svc_sendreply, svc_unregister, svcerr_auth, svcerr_decode, svcerr_noproc, svcerr_noprog, svcerr_progvers, svcerr_systemerr, svcerr_weakauth, svcfld_create, svcunixfd_create, svcraw_create, svcunix_create, xdr_accepted_reply, xdr_authunix_parms, xdr_callhdr, xdr_callmsg, xdr_opaque_auth, xdr_pmap, xdr_pmaplist, xdr_rejected_reply, xdr_replymsg, xprt_register, xprt_unregister - library routines for remote procedure calls

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

See *DESCRIPTION* for function declarations.

DESCRIPTION

The **svc_***() and **clnt_***() functions described in this page are the old, TS-RPC interface to the XDR and RPC library, and exist for backward compatibility. The new interface is described in the pages referenced from **rpc(3)**.

These routines allow C programs to make procedure calls on other machines across the network. First, the client calls a procedure to send a data packet to the server. Upon receipt of the packet, the server calls a dispatch routine to perform the requested service, and then sends back a reply. Finally, the procedure call returns to the client.

Routines that are used for Secure RPC (DES authentication) are described in **rpc_secure(3)**. Secure RPC can be used only if DES encryption is available.

void

auth_destroy(*AUTH *auth*)

A macro that destroys the authentication information associated with *auth*. Destruction usually involves deallocation of private data structures. The use of *auth* is undefined after calling **auth_destroy**().

AUTH *

authnone_create()

Create and return an RPC authentication handle that passes nonusable authentication information with each remote procedure call. This is the default authentication used by RPC.

AUTH *

authunix_create(*char *host, u_int uid, u_int gid, int len, u_int *aup_gids*)

Create and return an RPC authentication handle that contains UNIX authentication information. The *host* argument is the name of the machine on which the information was created; *uid* is the user's user ID; *gid* is the user's current group ID; *len* and *aup_gids* refer to a counted array of groups to which the user belongs. It is easy to impersonate a user.

AUTH *

authunix_create_default()

Calls **authunix_create()** with the appropriate arguments.

int callrpc(*char *host, u_long prognum, u_long versnum, u_long procnum, xdrproc_t inproc, void *in, xdrproc_t outproc, void *out*)

Call the remote procedure associated with *prognum*, *versnum*, and *procnum* on the machine *host*. The *in* argument is the address of the procedure's argument(s), and *out* is the address of where to place the result(s); *inproc* is used to encode the procedure's arguments, and *outproc* is used to decode the procedure's results. This routine returns zero if it succeeds, or the value of *enum clnt_stat* cast to an integer if it fails. The routine **clnt_perrno()** is handy for translating failure statuses into messages.

Warning: calling remote procedures with this routine uses UDP/IP as a transport; see **clntudp_create()** for restrictions. You do not have control of timeouts or authentication using this routine.

enum clnt_stat

clnt_broadcast(*u_long prognum, u_long versnum, u_long procnum, xdrproc_t inproc, char *in, xdrproc_t outproc, char *out, bool_t (*eachresult)(caddr_t, struct sockaddr_in *)*)

Like **callrpc()**, except the call message is broadcast to all locally connected broadcast nets. Each time it receives a response, this routine calls **eachresult()**, whose form is:

*bool_t eachresult(caddr_t out, struct sockaddr_in *addr)*

where *out* is the same as *out* passed to **clnt_broadcast()**, except that the remote procedure's output is decoded there; *addr* points to the address of the machine that sent the results. If **eachresult()** returns zero, **clnt_broadcast()** waits for more replies; otherwise it returns with appropriate status.

Warning: broadcast sockets are limited in size to the maximum transfer unit of the data link. For ethernet, this value is 1500 bytes.

enum clnt_stat

clnt_call(*CLIENT *clnt, u_long procnum, xdrproc_t inproc, char *in, xdrproc_t outproc, char *out, struct timeval tout*)

A macro that calls the remote procedure *procnum* associated with the client handle, *clnt*, which is obtained with an RPC client creation routine such as **clnt_create()**. The *in* argument is the address of the procedure's argument(s), and *out* is the address of where to place the result(s); *inproc* is used to encode the procedure's arguments, and *outproc* is used to decode the procedure's results; *tout* is the time allowed for results to come back.

*void clnt_destroy(CLIENT *clnt)*

A macro that destroys the client's RPC handle. Destruction usually involves deallocation of private data structures, including *clnt* itself. Use of *clnt* is undefined after calling **clnt_destroy()**. If the RPC library opened the associated socket, it will close it also. Otherwise, the socket remains open.

*CLIENT **

clnt_create(*char *host, u_long prog, u_long vers, char *proto*)

Generic client creation routine. The *host* argument identifies the name of the remote host where the server is located. The *proto* argument indicates which kind of transport protocol to use. The currently supported values for this field are "udp" and "tcp". Default timeouts are set, but can be modified using **clnt_control()**.

Warning: Using UDP has its shortcomings. Since UDP-based RPC messages can only hold up to 8 Kbytes of encoded data, this transport cannot be used for procedures that take large arguments or return huge results.

bool_t

clnt_control(*CLIENT *cl, u_int req, char *info*)

A macro used to change or retrieve various information about a client object. The *req* argument indicates the type of operation, and *info* is a pointer to the information. For both UDP and TCP, the supported values of *req* and their argument types and what they do are:

CLSET_TIMEOUT	<i>struct timeval</i>	set total timeout
CLGET_TIMEOUT	<i>struct timeval</i>	get total timeout

Note: if you set the timeout using **clnt_control**(), the timeout argument passed to **clnt_call**() will be ignored in all future calls.

CLGET_SERVER_ADDR	<i>struct sockaddr_in</i>	get server's address
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The following operations are valid for UDP only:

CLSET_RETRY_TIMEOUT	<i>struct timeval</i>	set the retry timeout
CLGET_RETRY_TIMEOUT	<i>struct timeval</i>	get the retry timeout

The retry timeout is the time that UDP RPC waits for the server to reply before retransmitting the request.

bool_t **clnt_freeres**(*CLIENT *clnt, xdrproc_t outproc, char *out*)

A macro that frees any data allocated by the RPC/XDR system when it decoded the results of an RPC call. The *out* argument is the address of the results, and *outproc* is the XDR routine describing the results. This routine returns one if the results were successfully freed, and zero otherwise.

void

clnt_geterr(*CLIENT *clnt, struct rpc_err *errp*)

A macro that copies the error structure out of the client handle to the structure at address *errp*.

void

clnt_pcreateerror(*char *s*)

prints a message to standard error indicating why a client RPC handle could not be created. The message is prepended with string *s* and a colon. A newline is appended at the end of the message. Used when a **clnt_create**(), **clntraw_create**(), **clnttcp_create**(), or **clntudp_create**() call

fails.

void

clnt_perrno(*enum clnt_stat stat*)

Print a message to standard error corresponding to the condition indicated by *stat*. A newline is appended at the end of the message. Used after **callrpc**().

void **clnt_perror**(*CLIENT *clnt, char *s*)

Print a message to standard error indicating why an RPC call failed; *clnt* is the handle used to do the call. The message is prepended with string *s* and a colon. A newline is appended at the end of the message. Used after **clnt_call**().

*char **

clnt_screateerror(*char *s*)

Like **clnt_pcreateerror**(), except that it returns a string instead of printing to the standard error.

Bugs: returns pointer to static data that is overwritten on each call.

*char **

clnt_sperrno(*enum clnt_stat stat*)

Take the same arguments as **clnt_perrno**(), but instead of sending a message to the standard error indicating why an RPC call failed, return a pointer to a string which contains the message.

The **clnt_sperrno**() function is used instead of **clnt_perrno**() if the program does not have a standard error (as a program running as a server quite likely does not), or if the programmer does not want the message to be output with **printf**(), or if a message format different from that supported by **clnt_perrno**() is to be used.

Note: unlike **clnt_sperror**() and **clnt_screateerror**(), **clnt_sperrno**() returns pointer to static data, but the result will not get overwritten on each call.

*char **

clnt_sperror(*CLIENT *rpch, char *s*)

Like **clnt_perror**(), except that (like **clnt_sperrno**()) it returns a string instead of printing to standard error.

Bugs: returns pointer to static data that is overwritten on each call.

*CLIENT **

clntraw_create(*u_long prognum, u_long versnum*)

This routine creates a toy RPC client for the remote program *prognum*, version *versnum*. The transport used to pass messages to the service is actually a buffer within the process's address space, so the corresponding RPC server should live in the same address space; see **svccraw_create**(*u_long prognum, u_long versnum*). This allows simulation of RPC and acquisition of RPC overheads, such as round trip times, without any kernel interference. This routine returns NULL if it fails.

*CLIENT **

clnttcp_create(*struct sockaddr_in *addr, u_long prognum, u_long versnum, int *sockp, u_int sendsz, u_int recvsz*)

This routine creates an RPC client for the remote program *prognum*, version *versnum*; the client uses TCP/IP as a transport. The remote program is located at Internet address *addr*. If *addr->sin_port* is zero, then it is set to the actual port that the remote program is listening on (the remote `rpcbind(8)` service is consulted for this information). The *sockp* argument is a socket; if it is `RPC_ANYSOCK`, then this routine opens a new one and sets *sockp*. Since TCP-based RPC uses buffered I/O, the user may specify the size of the send and receive buffers with the *sendsz* and *recvsz* arguments; values of zero choose suitable defaults. This routine returns NULL if it fails.

*CLIENT **

clntudp_create(*struct sockaddr_in *addr, u_long prognum, u_long versnum, struct timeval wait, int *sockp*)

This routine creates an RPC client for the remote program *prognum*, version *versnum*; the client uses UDP/IP as a transport. The remote program is located at Internet address *addr*. If *addr->sin_port* is zero, then it is set to actual port that the remote program is listening on (the remote `rpcbind(8)` service is consulted for this information). The *sockp* argument is a socket; if it is `RPC_ANYSOCK`, then this routine opens a new one and sets *sockp*. The UDP transport resends the call message in intervals of *wait* time until a response is received or until the call times out. The total time for the call to time out is specified by **clnt_call**(*u_long prognum, u_long versnum, u_int sendsz, u_int recvsz, struct timeval wait, int *sockp*).

Warning: since UDP-based RPC messages can only hold up to 8 Kbytes of encoded data, this transport cannot be used for procedures that take large arguments or return huge results.

*CLIENT **

clntudp_bufcreate(*struct sockaddr_in *addr, u_long prognum, u_long versnum, struct timeval wait, int *sockp, unsigned int sendsize, unsigned int recosize*)

This routine creates an RPC client for the remote program *prognum*, on *versnum*; the client uses UDP/IP as a transport. The remote program is located at Internet address *addr*. If *addr->sin_port* is zero, then it is set to actual port that the remote program is listening on (the remote `rpcbind(8)` service is consulted for this information). The *sockp* argument is a socket; if it is `RPC_ANYSOCK`, then this routine opens a new one and sets *sockp*. The UDP transport resends the call message in intervals of *wait* time until a response is received or until the call times out. The total time for the call to time out is specified by **clnt_call()**.

This allows the user to specify the maximum packet size for sending and receiving UDP-based RPC messages.

*CLIENT **

clntunix_create(*struct sockaddr_un *raddr, u_long prognum, u_long versnum, int *sockp, u_int sendsz, u_int recvsz*)

This routine creates an RPC client for the local program *prognum*, version *versnum*; the client uses UNIX-domain sockets as a transport. The local program is located at the *raddr*. The *sockp* argument is a socket; if it is `RPC_ANYSOCK`, then this routine opens a new one and sets *sockp*. Since UNIX-based RPC uses buffered I/O, the user may specify the size of the send and receive buffers with the *sendsz* and *recvsz* arguments; values of zero choose suitable defaults. This routine returns NULL if it fails.

int

get_myaddress(*struct sockaddr_in *addr*)

Stuff the machine's IP address into *addr*, without consulting the library routines that deal with */etc/hosts*. The port number is always set to **htons(PMAPPOR)**. Returns zero on success, non-zero on failure.

*struct pmaplist **

pmap_getmaps(*struct sockaddr_in *addr*)

A user interface to the `rpcbind(8)` service, which returns a list of the current RPC program-to-port mappings on the host located at IP address *addr*. This routine can return NULL. The command "**rpcinfo -p**" uses this routine.

u_short

pmap_getport(*struct sockaddr_in *addr, u_long prognum, u_long versnum, u_long protocol*)

A user interface to the `rpcbind(8)` service, which returns the port number on which waits a service that supports program number *prognum*, version *versnum*, and speaks the transport protocol associated with *protocol*. The value of *protocol* is most likely `IPPROTO_UDP` or `IPPROTO_TCP`. A return value of zero means that the mapping does not exist or that the RPC system failed to contact the remote `rpcbind(8)` service. In the latter case, the global variable `rpc_createerr` contains the RPC status.

enum clnt_stat

pmap_rmtcall(*struct sockaddr_in *addr, u_long prognum, u_long versnum, u_long procnum, xdrproc_t inproc, char *in, xdrproc_t outproc, char *out, struct timeval tout, u_long *portp*)

A user interface to the `rpcbind(8)` service, which instructs `rpcbind(8)` on the host at IP address *addr* to make an RPC call on your behalf to a procedure on that host. The *portp* argument will be modified to the program's port number if the procedure succeeds. The definitions of other arguments are discussed in `callrpc()` and `clnt_call()`. This procedure should be used for a "ping" and nothing else. See also `clnt_broadcast()`.

bool_t **pmap_set**(*u_long prognum, u_long versnum, u_long protocol, u_short port*)

A user interface to the `rpcbind(8)` service, which establishes a mapping between the triple (*prognum, versnum, protocol*) and *port* on the machine's `rpcbind(8)` service. The value of *protocol* is most likely `IPPROTO_UDP` or `IPPROTO_TCP`. This routine returns one if it succeeds, zero otherwise. Automatically done by `svc_register()`.

bool_t **pmap_unset**(*u_long prognum, u_long versnum*)

A user interface to the `rpcbind(8)` service, which destroys all mapping between the triple (*prognum, versnum, **) and *ports* on the machine's `rpcbind(8)` service. This routine returns one if it succeeds, zero otherwise.

bool_t **registerrpc**(*u_long prognum, u_long versnum, u_long procnum, char *(*procname)(void), xdrproc_t inproc, xdrproc_t outproc*)

Register procedure *procname* with the RPC service package. If a request arrives for program *prognum*, version *versnum*, and procedure *procnum*, *procname* is called with a pointer to its argument(s); *procname* should return a pointer to its static result(s); *inproc* is used to decode the arguments while *outproc* is used to encode the results. This routine returns zero if the registration succeeded, -1 otherwise.

Warning: remote procedures registered in this form are accessed using the UDP/IP transport; see **svcudp_create()** for restrictions.

```
struct rpc_createerr rpc_createerr;
```

A global variable whose value is set by any RPC client creation routine that does not succeed. Use the routine **clnt_pcreateerror()** to print the reason why.

```
bool_t svc_destroy(SVCXPRT *xpirt)
```

A macro that destroys the RPC service transport handle, *xpirt*. Destruction usually involves deallocation of private data structures, including *xpirt* itself. Use of *xpirt* is undefined after calling this routine.

```
fd_set svc_fdset;
```

A global variable reflecting the RPC service side's read file descriptor bit mask; it is suitable as a template argument to the `select(2)` system call. This is only of interest if a service implementor does not call **svc_run()**, but rather does his own asynchronous event processing. This variable is read-only (do not pass its address to `select(2)!`), yet it may change after calls to **svc_getreqset()** or any creation routines. As well, note that if the process has descriptor limits which are extended beyond `FD_SETSIZE`, this variable will only be usable for the first `FD_SETSIZE` descriptors.

```
int svc_fds;
```

Similar to *svc_fdset*, but limited to 32 descriptors. This interface is obsoleted by *svc_fdset*.

```
bool_t svc_freeargs(SVCXPRT *xpirt, xdrproc_t inproc, char *in)
```

A macro that frees any data allocated by the RPC/XDR system when it decoded the arguments to a service procedure using **svc_getargs()**. This routine returns 1 if the results were successfully freed, and zero otherwise.

```
bool_t svc_getargs(SVCXPRT *xpirt, xdrproc_t inproc, char *in)
```

A macro that decodes the arguments of an RPC request associated with the RPC service transport handle, *xpirt*. The *in* argument is the address where the arguments will be placed; *inproc* is the XDR routine used to decode the arguments. This routine returns one if decoding succeeds, and zero otherwise.

```
struct sockaddr_in *
svc_getcaller(SVCXPRT *xprt)
```

The approved way of getting the network address of the caller of a procedure associated with the RPC service transport handle, *xprt*.

```
void svc_getreqset(fd_set *rdfs)
```

This routine is only of interest if a service implementor does not call **svc_run()**, but instead implements custom asynchronous event processing. It is called when the `select(2)` system call has determined that an RPC request has arrived on some RPC socket(s); *rdfs* is the resultant read file descriptor bit mask. The routine returns when all sockets associated with the value of *rdfs* have been serviced.

```
void svc_getreq(int rdfs)
```

Similar to **svc_getreqset()**, but limited to 32 descriptors. This interface is obsoleted by **svc_getreqset()**.

```
bool_t svc_register(SVCXPRT *xprt, u_long prognum, u_long versnum,
    void (*dispatch)(struct svc_req *, SVCXPRT *), int protocol)
```

Associates *prognum* and *versnum* with the service dispatch procedure, **dispatch()**. If *protocol* is zero, the service is not registered with the `rpcbind(8)` service. If *protocol* is non-zero, then a mapping of the triple (*prognum*, *versnum*, *protocol*) to *xprt->xp_port* is established with the local `rpcbind(8)` service (generally *protocol* is zero, `IPPROTO_UDP` or `IPPROTO_TCP`). The procedure **dispatch()** has the following form:

```
bool_t dispatch(struct svc_req *request, SVCXPRT *xprt)
```

The **svc_register()** routine returns one if it succeeds, and zero otherwise.

```
svc_run()
```

This routine never returns. It waits for RPC requests to arrive, and calls the appropriate service procedure using **svc_getreq()** when one arrives. This procedure is usually waiting for a `select(2)` system call to return.

```
bool_t svc_sendreply(SVCXPRT *xprt, xdrproc_t outproc, char *out)
```

Called by an RPC service's dispatch routine to send the results of a remote procedure call. The *xprt* argument is the request's associated transport handle; *outproc* is the XDR routine which is used to encode the results; and *out* is the address of the results. This routine returns one if it succeeds, zero otherwise.

void

svc_unregister(*u_long prognum, u_long versnum*)

Remove all mapping of the double (*prognum, versnum*) to dispatch routines, and of the triple (*prognum, versnum, **) to port number.

void

svcerr_auth(*SVCXPRT *xprt, enum auth_stat why*)

Called by a service dispatch routine that refuses to perform a remote procedure call due to an authentication error.

void

svcerr_decode(*SVCXPRT *xprt*)

Called by a service dispatch routine that cannot successfully decode its arguments. See also **svc_getargs**().

void

svcerr_noproc(*SVCXPRT *xprt*)

Called by a service dispatch routine that does not implement the procedure number that the caller requests.

void

svcerr_noprog(*SVCXPRT *xprt*)

Called when the desired program is not registered with the RPC package. Service implementors usually do not need this routine.

void

svcerr_progvers(*SVCXPRT *xprt, u_long low_vers, u_long high_vers*)

Called when the desired version of a program is not registered with the RPC package. Service implementors usually do not need this routine.

void

svcerr_systemerr(*SVCXPRT *xpirt*)

Called by a service dispatch routine when it detects a system error not covered by any particular protocol. For example, if a service can no longer allocate storage, it may call this routine.

void

svcerr_weakauth(*SVCXPRT *xpirt*)

Called by a service dispatch routine that refuses to perform a remote procedure call due to insufficient authentication arguments. The routine calls **svcerr_auth**(*xpirt*, *AUTH_TOOWEAK*).

*SVCXPRT **

svccraw_create(*void*)

This routine creates a toy RPC service transport, to which it returns a pointer. The transport is really a buffer within the process's address space, so the corresponding RPC client should live in the same address space; see **clntraw_create**(). This routine allows simulation of RPC and acquisition of RPC overheads (such as round trip times), without any kernel interference. This routine returns NULL if it fails.

*SVCXPRT **

svctcp_create(*int sock, u_int send_buf_size, u_int recv_buf_size*)

This routine creates a TCP/IP-based RPC service transport, to which it returns a pointer. The transport is associated with the socket *sock*, which may be *RPC_ANYSOCK*, in which case a new socket is created. If the socket is not bound to a local TCP port, then this routine binds it to an arbitrary port. Upon completion, *xpirt->xp_fd* is the transport's socket descriptor, and *xpirt->xp_port* is the transport's port number. This routine returns NULL if it fails. Since TCP-based RPC uses buffered I/O, users may specify the size of buffers; values of zero choose suitable defaults.

*SVCXPRT **

svcunix_create(*int sock, u_int send_buf_size, u_int recv_buf_size, char *path*)

This routine creates a UNIX-based RPC service transport, to which it returns a pointer. The transport is associated with the socket *sock*, which may be *RPC_ANYSOCK*, in which case a new socket is created. The **path* argument is a variable-length file system pathname of at most 104 characters. This file is *not* removed when the socket is closed. The `unlink(2)` system call must be used to remove the file. Upon completion, *xpirt->xp_fd* is the transport's socket

descriptor. This routine returns NULL if it fails. Since UNIX-based RPC uses buffered I/O, users may specify the size of buffers; values of zero choose suitable defaults.

SVCXPRT *

svcunixfd_create(*int fd, u_int sendsize, u_int recvsz*)

Create a service on top of any open descriptor. The *sendsize* and *recvsz* arguments indicate sizes for the send and receive buffers. If they are zero, a reasonable default is chosen.

SVCXPRT *

svcfid_create(*int fd, u_int sendsize, u_int recvsz*)

Create a service on top of any open descriptor. Typically, this descriptor is a connected socket for a stream protocol such as TCP. The *sendsize* and *recvsz* arguments indicate sizes for the send and receive buffers. If they are zero, a reasonable default is chosen.

SVCXPRT *

svcudp_bufcreate(*int sock, u_int sendsize, u_int recvsz*)

This routine creates a UDP/IP-based RPC service transport, to which it returns a pointer. The transport is associated with the socket *sock*, which may be RPC_ANYSOCK, in which case a new socket is created. If the socket is not bound to a local UDP port, then this routine binds it to an arbitrary port. Upon completion, *xprt->xp_fd* is the transport's socket descriptor, and *xprt->xp_port* is the transport's port number. This routine returns NULL if it fails.

This allows the user to specify the maximum packet size for sending and receiving UDP-based RPC messages.

bool_t xdr_accepted_reply(*XDR *xdrs, struct accepted_reply *ar*)

Used for encoding RPC reply messages. This routine is useful for users who wish to generate RPC-style messages without using the RPC package.

bool_t xdr_authunix_parms(*XDR *xdrs, struct authunix_parms *aupp*)

Used for describing UNIX credentials. This routine is useful for users who wish to generate these credentials without using the RPC authentication package.

void

bool_t xdr_callhdr(*XDR *xdrs, struct rpc_msg *chdr*)

Used for describing RPC call header messages. This routine is useful for users who wish to generate RPC-style messages without using the RPC package.

bool_t **xdr_callmsg**(XDR *xdrs, struct rpc_msg *cmsg)

Used for describing RPC call messages. This routine is useful for users who wish to generate RPC-style messages without using the RPC package.

bool_t **xdr_opaque_auth**(XDR *xdrs, struct opaque_auth *ap)

Used for describing RPC authentication information messages. This routine is useful for users who wish to generate RPC-style messages without using the RPC package.

struct pmap;

bool_t **xdr_pmap**(XDR *xdrs, struct pmap *regs)

Used for describing arguments to various rpcbind(8) procedures, externally. This routine is useful for users who wish to generate these arguments without using the **pmap_***() interface.

bool_t **xdr_pmaplist**(XDR *xdrs, struct pmaplist **rp)

Used for describing a list of port mappings, externally. This routine is useful for users who wish to generate these arguments without using the **pmap_***() interface.

bool_t **xdr_rejected_reply**(XDR *xdrs, struct rejected_reply *rr)

Used for describing RPC reply messages. This routine is useful for users who wish to generate RPC-style messages without using the RPC package.

bool_t **xdr_replymsg**(XDR *xdrs, struct rpc_msg *rmsg)

Used for describing RPC reply messages. This routine is useful for users who wish to generate RPC style messages without using the RPC package.

void

xprt_register(SVCXPRT *xpvt)

After RPC service transport handles are created, they should register themselves with the RPC service package. This routine modifies the global variable *svc_fds*. Service implementors usually do not need this routine.

void

xprt_unregister(*SVCXPRT *xprt*)

Before an RPC service transport handle is destroyed, it should unregister itself with the RPC service package. This routine modifies the global variable *svc_fds*. Service implementors usually do not need this routine.

SEE ALSO

rpc_secure(3), *xdr*(3)

Remote Procedure Calls: Protocol Specification.

Remote Procedure Call Programming Guide.

rpcgen Programming Guide.

RPC: Remote Procedure Call Protocol Specification, Sun Microsystems, Inc., USC-ISI, RFC1050.