NAME

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rpc_svc_reg, rpc_reg, svc_reg, svc_unreg, svc_auth_reg, xprt_register,
xprt_unregister — library routines for registering servers
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SYNOPSIS

DESCRIPTION

These routines are a part of the RPC library which allows the RPC servers to register themselves with rpcbind (see rpcbind(8)), and associate the given program and version number with the dispatch function. When the RPC server receives a RPC request, the library invokes the dispatch routine with the appropriate arguments.

Routines

See rpc(3) for the definition of the SVCXPRT data structure.

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rpc_reg()
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Register program *prognum*, procedure *procname*, and version *versnum* 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 the XDR function used to decode the arguments while *outproc* is the XDR function used to encode the results. Procedures are registered on all available transports of the class *nettype*. Seerpc(3). This routine returns 0 if the registration succeeded, -1 otherwise.

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svc_reg()
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Associates prognum and versnum with the service dispatch procedure, dispatch. If netconf is NULL, the service is not registered with the rpcbind(8) service. If netconf is nonzero, then a mapping of the triple [prognum, versnum, netconf->nc_netid] to xprt->xp_ltaddr is established with the local rpcbind service.

The **svc_reg**() routine returns 1 if it succeeds, and 0 otherwise.

svc unreg()

Remove from the rpcbind service, all mappings of the triple [prognum, versnum, all-transports] to network address and all mappings within the RPC service package of the double [prognum, versnum] to dispatch routines.

svc_auth_reg()

Registers the service authentication routine <code>handler</code> with the dispatch mechanism so that it can be invoked to authenticate RPC requests received with authentication type <code>cred_flavor</code>. This interface allows developers to add new authentication types to their RPC applications without needing to modify the libraries. Service implementors usually do not need this routine.

Typical service application would call **svc_auth_reg**() after registering the service and prior to calling **svc_run**(). When needed to process an RPC credential of typecred_flavor, the handler procedure will be called with two arguments, struct svc_req *rqst and struct rpc_msg *msg, and is expected to return a valid enum auth_stat value. There is no provision to change or delete an authentication handler once registered.

The **svc_auth_reg**() routine returns 0 if the registration is successful, 1 if *cred_flavor* already has an authentication handler registered for it, and -1 otherwise.

xprt_register()

After RPC service transport handle *xprt* is created, it is registered with the RPC service package. This routine modifies the global variable *svc_fdset* (see rpc_svc_calls(3)). Service implementors usually do not need this routine.

xprt_unregister()

Before an RPC service transport handle xprt is destroyed, it unregisters itself with the RPC service package. This routine modifies the global variable svc_fdset (see rpc_svc_calls(3)). Service implementors usually do not need this routine.

AVAILABILITY

These functions are part of libtirpc.

SEE ALSO

select(2), rpc(3), rpc_svc_calls(3), rpc_svc_create(3), rpc_svc_err(3),
rpcbind(8)