clnt_broadcast Subroutine

Purpose

Broadcasts a remote procedure call to all locally connected networks.

Library

C Library (**libc.a**)

Syntax

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

enum clnt_stat clnt_broadcast (prognum, versnum, procnum, inproc)
enum clnt_stat clnt_broadcast (in, outproc, out, eachresult)
u_long prognum, versnum, procnum;
xdrproc_t inproc;
char *in;
xdrproc_t outproc;
char *out;
resultproc_t eachresult;
```

Description

The **clnt_broadcast** subroutine broadcasts a remote procedure call to all locally connected networks. The remote procedure is identified by the *prognum*, *versnum*, and *procnum* parameters on the workstation identified by the *host* parameter.

Broadcast sockets are limited in size to the maximum transfer unit of the data link. For Ethernet, this value is 1500 bytes.

When a client broadcasts a remote procedure call over the network, a number of server processes respond. Each time the client receives a response, the **clnt_broadcast** subroutine calls the **eachresult** routine. The **eachresult** routine takes the following form:

```
eachresult (out, *addr)
char *out;
struct sockaddr_in *addr;
```

Parameters

prognum	Specifies the number of the remote program.
versnum	Specifies the version number of the remote program.

procnum	Identifies the procedure to be called.
inproc	Specifies the procedure that encodes the procedure's parameters.
in	Specifies the address of the procedure's arguments.
outproc	Specifies the procedure that decodes the procedure results.
out	Specifies the address where results are placed.
eachresult	Specifies the procedure to call when clients respond.
addr	Specifies the address of the workstation that sent the results.

Return Values

If the **eachresult** subroutine returns a value of 0, the **clnt_broadcast** subroutine waits for more replies. Otherwise, the **clnt_broadcast** subroutine returns with the appropriate results.

Implementation Specifics

This subroutine is part of Base Operating System (BOS) Runtime.

Related Information

The **callrpc** subroutine.

List of RPC Programming References.

Remote Procedure Call (RPC) Overview for Programming and Sockets Overview in *AIX Version 4.3 Communications Programming Concepts*.