

RPC - Remote Procedure Call

Motivation: RPC allows a client program on one machine to call procedure on a server machine as if it is a local procedure.

PRINCIPLES

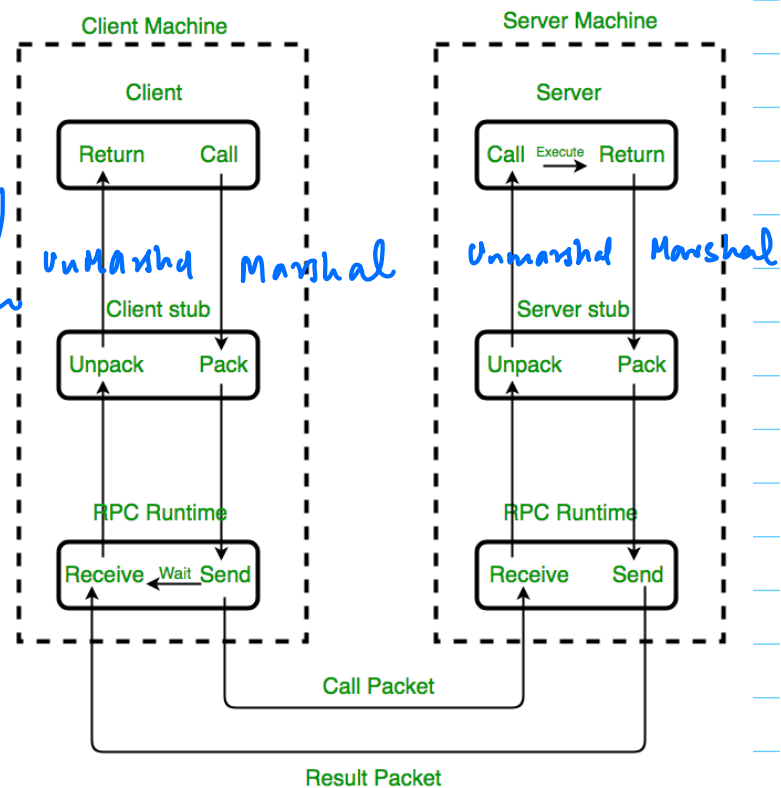
Client Server Model : Client (calls), Server (Executes)
Stub Generation : acts as proxy (Marshals, Unmarshals)
Binding : client to know server's N/w address
Protocol : N/w Protocol (TCP, UDP)
Error handling : Network failure handling.

Binding Process:

calls
If client doesn't know a server's address, it performs Service discovery
name server → returns
IP address & port number of server

Marshalling: Serializes (Packs) to format suitable for Transmission over N/w

RPC Runtime: manages transmission of msgs between Client & server



Implementation of RPC mechanism

