Remote Procedure Call (RPC)

RPC is a protocol that one program can use to request a Service from a program located in another computer on a network without having to understand the networks details.

A procedure call is also called as function call of Subroutine call.

RPC uses the client Server model client wait to result call remote from call server and call server reply call be recedure.

Request Reply

Call book brocedure. The

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The client

The client Stub (stub: Piece of code used for

The RPC Runtime (RPC communication package)

The Server Stub

The Client

The Server

The client

The client

The client

The client

The client

The client makes a perfectly normal call that invokes a corresponding procedure in the client stub.
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ne Client Stub:

On seceipt of a request it backs a requirement who a message and asks to RPC Runtime to send

On receipt of a result it unpacks the result and passes it to client.

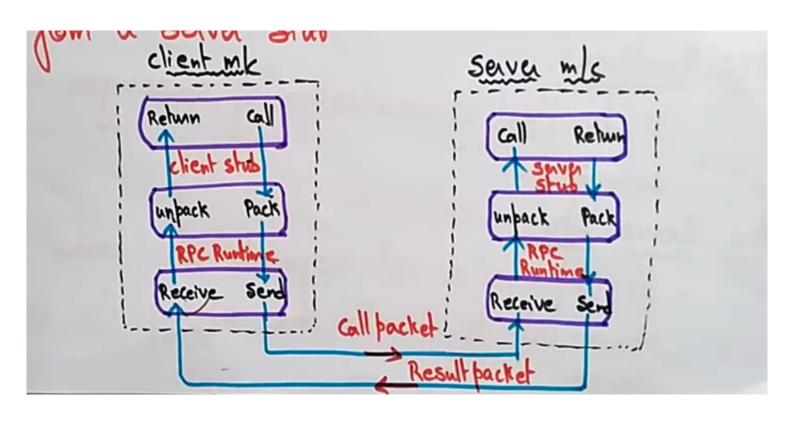
PC Runtime:

St handles transmission of messages between client and server.

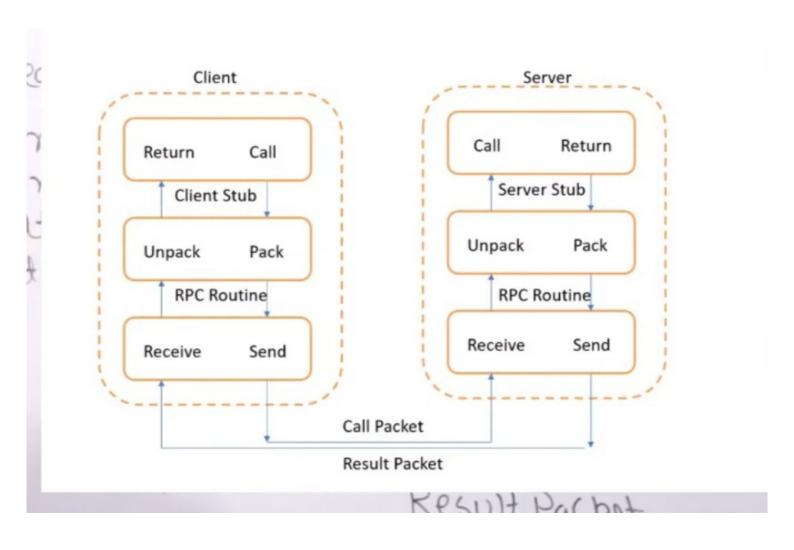
Serva Stub:

Of unpacks a call request and make a perfectly normal call to invoke the appropriate procedure in the





Clear Stun



1.	Client	procedure	calls	client stub	in normal	way
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- Client stub builds message, calls local OS
- Client's OS sends message to remote OS
- Remote OS gives message to server stub
- 5. Server stub unpacks parameters, calls server
- 6. Server does work, returns result to the stub
- 7. Server stub packs it in message, calls local OS
- 8. Server's OS sends message to client's OS
- Client's OS gives message to client stub
- 10. Stub unpacks result, returns to client



- Stub A stub is a representation the client program. client. It resides in the client system; it acts as a gateway for (proxy) of the remote object at
- to pass request to the remote Skeleton - This is the object which object. communicates with this skeleton resides on the server side. **stub**