

Rebecca Dias

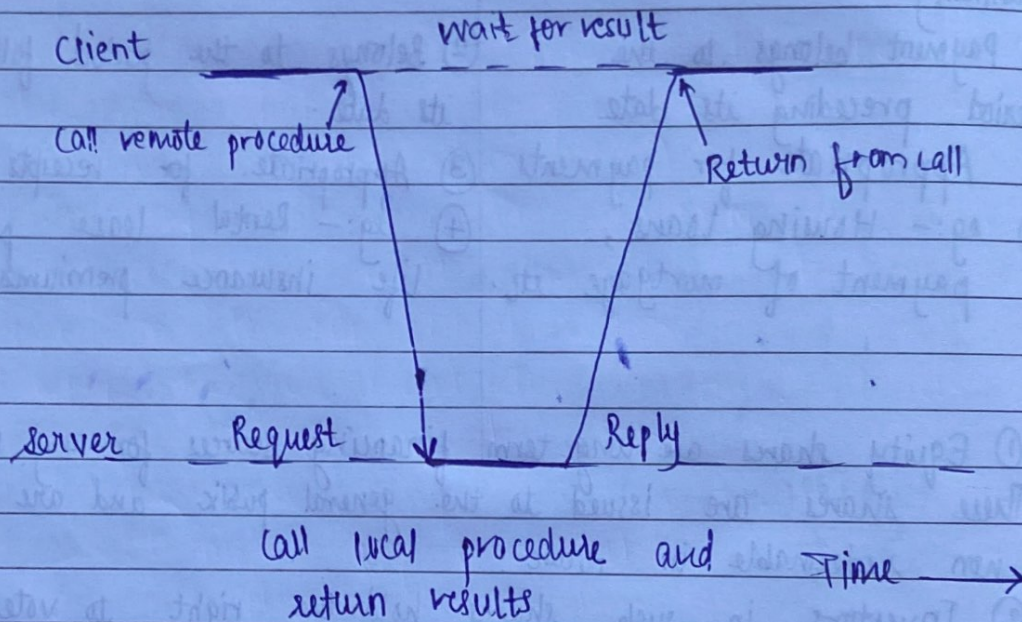
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Remote Procedure call operation.

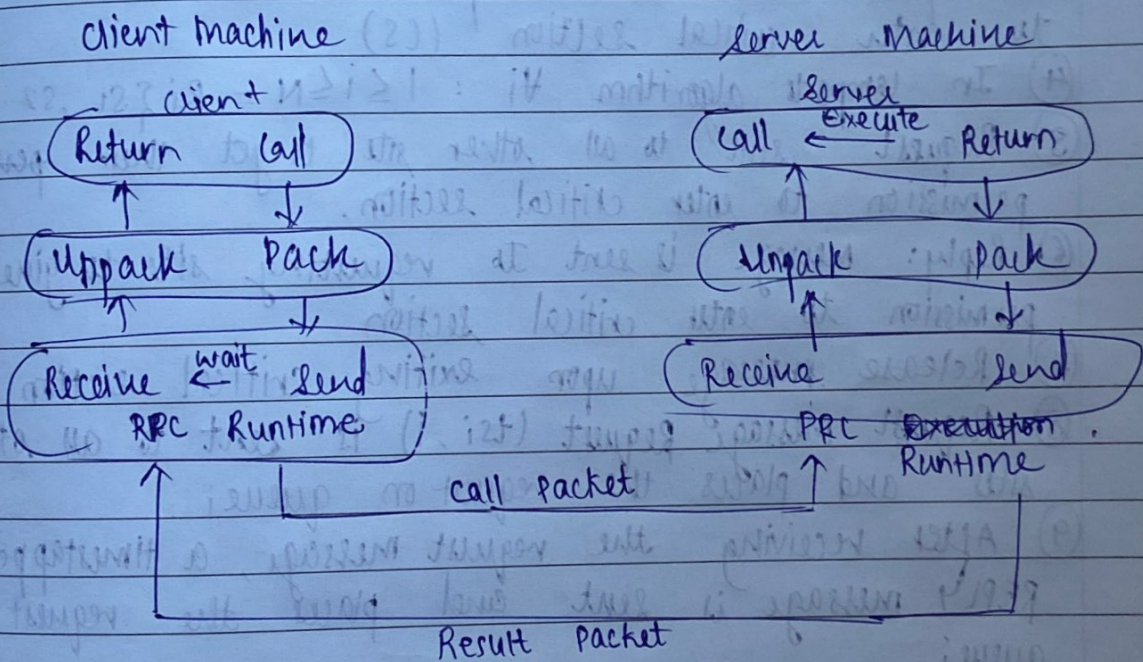


- ① Remote Procedure call (RPC) is a powerful technique for constructing distributed, client server based applications. It is based on extending the conventional local procedure call.
- ② A client is a computer which requests the services or resources provided by the server.
- ③ The server is a powerful computer which provides services or resources required by any of the clients.
- ④ On arrival of a request message, server extracts procedure parameters, computes result, sends reply message and then awaits for next call message.



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- ⑤ A client has a request message that the RPC translates and sends to the server, this request may be procedure or a function call to a remote server.
- ⑥ When the server receives the result, it sends the required response back to the client.
- ⑦ The client is blocked while the server is processing the call and only resumed execution after the server is finished.



- ⑧ When the server procedure completes, it returns to the server stub.
- ⑨ On the server, the transport layer passes the message to a server stub, which demarshalls the parameters and calls the server routine.
- ⑩ The server stub then marshalls the return values into a message.