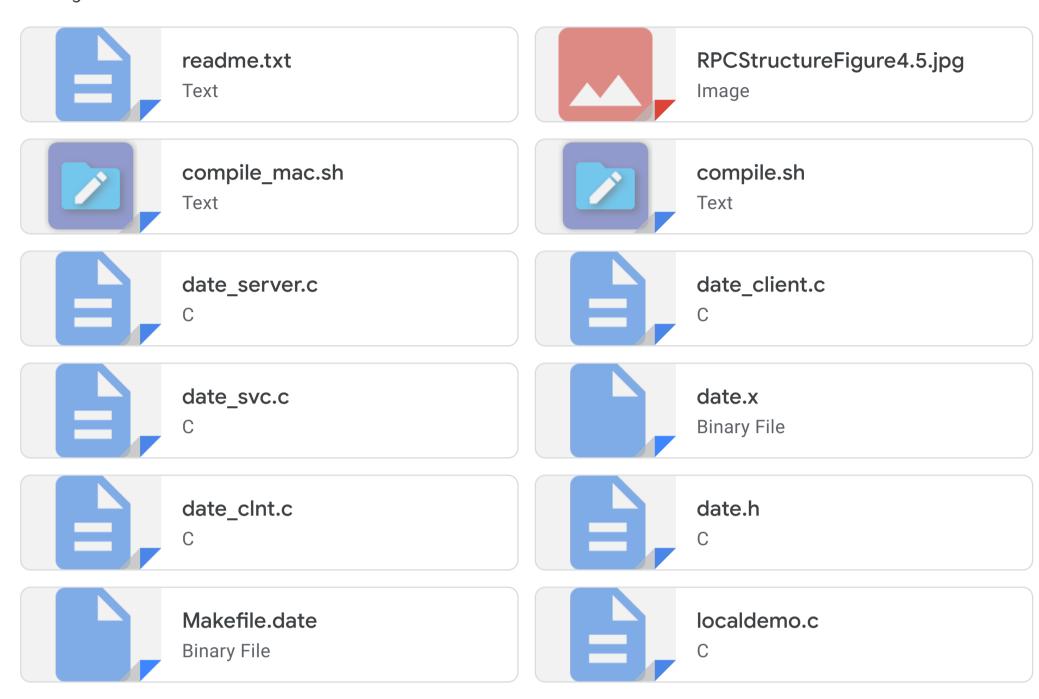


# PRC - RemoteProcedureCall Demo Program

Prof. Jigar Pandya • Sep 17 (Edited 9:47 AM)

RPC is one way to do processing over network nodes. Since when functions became first class citizens its all started moving.



#### 3 class comments



## Prof. Jigar Pandya Sep 17

Assume that an application runs on a single computer and you want to convert it to run in a "distributed" manner on a network. Write a program to demonstrate the stepwise conversion of this program that writes a message to the system console.

RPC

Courtesy: <a href="http://digital.cs.usu.edu/~allan/DNP/Slides/RPC.pdf">http://digital.cs.usu.edu/~allan/DNP/Slides/RPC.pdf</a>

Create date.x file with appropriate content

rpcgen -C -N -a date.x to generate templates

Edit server and client file as per requirment



#### Prof. Jigar Pandya Sep 17

On Oracle Cloud Infrastructure to test this temporarily I did below: To stop firewall on server instance: sudo systemctl stop firewalld Added Ingress rule for 10.0.0.0/16 for stateless - all protocols. into default security list of public subnet.

I am not certain of exact port/ranges and protocol type(s) rpc uses internally for communication.

Below command will provide some information to be utilised for iptables/firewalld/selinux: losf -i rpcinfo -p

Looks like 111 and other dynamically mapped port needs to be opened up for both tcp and udp on the server instance.



## Prof. Jigar Pandya Sep 17

rpcinfo rpcbind

