

client

messages

server

user calls kernel  
to send RPC  
message to  
procedure  $X$

kernel sends  
message to  
matchmaker to  
find port number

From: client  
To: server  
Port: matchmaker  
Re: address  
for RPC  $X$

matchmaker  
receives  
message, looks  
up answer

kernel places  
port  $P$  in user  
RPC message

From: server  
To: client  
Port: kernel  
Re: RPC  $X$   
Port:  $P$

matchmaker  
replies to client  
with port  $P$

kernel sends  
RPC

From: client  
To: server  
Port: port  $P$   
<contents>

daemon  
listening to  
port  $P$  receives  
message

kernel receives  
reply, passes  
it to user

From: RPC  
Port:  $P$   
To: client  
Port: kernel  
<output>

daemon  
processes  
request and  
processes send  
output