

client

messages

server

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

kernel sends message to matchmaker to find port number

kernel places port  $P$  in user RPC message

kernel sends RPC

kernel receives reply, passes it to user

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

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

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

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

matchmaker receives message, looks up answer

matchmaker replies to client with port  $P$

daemon listening to port  $P$  receives message

daemon processes request and processes send output