Government Engineering College, Thrissur

CS334 – Network Programming Lab

Documentation -

Exp 4 – UDP based Concurrent time server

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Experiment 4

Implement a Concurrent Time Server application using UDP to execute the program at remote server. Client sends a time request to the server, server sends its system time back to the client. Client displays the result.

Executing program

- Code is provided in **Client.java** and **Server.java** along with this documentation. You can open the terminal in Linux (Ubuntu 20.04 tested). Then run the command

  > *javac Server.java*
  > *java Server*

- Open a **new terminal** and then run

  > *javac Client.java*
  > *java Client*

- Server and Client will start their respective sockets and work on the same machine (IP 127.0.0.1, Port 5000 and 6000).

- **Note Server and Client are both fully automated. So we don't need to input anything from keyboard. Just run the program side-by-side.**

- We can see output side-by-side in the console

Output / Screenshots

Server   Client

```
┌─hp@hp ~/Documents/S6/Network Lab/Exp4 ‹master*›
└─$ java Server
Server scocket created
Client requested for date - 2021/04/24
Client requested for time - 14:01:23
Client requested for termination
Server disconnected
┌─hp@hp ~/Documents/S6/Network Lab/Exp4 ‹master*›
└─$ 
```

```
┌─hp@hp ~/Documents/S6/Network Lab/Exp4 ‹master*›
└─$ java Client
Client scocket created
Date: 2021/04/24
Time: 14:01:23
Terminate Server
Client exit...
┌─hp@hp ~/Documents/S6/Network Lab/Exp4 ‹master*›
└─$ 
```