

Government Engineering College, Thrissur

CS334 – Network Programming Lab

Documentation -

Exp 4 – UDP based Concurrent time server

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GECT CSE S6

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. We can *run as many clients in parallel*.

```
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).
- 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 1

Client 2

<pre>hp@hp ~/Documents/S6/Network Lab/Exp4 <master*> └─\$ java Server Server socket created Client requested for date Client requested for time Client requested for date Client requested for time └─\$</pre>	<pre>hp@hp ~/Documents/S6/Network Lab/Exp4 < master*> └─\$ java Client Client socket created Date: 2021/04/24 Client socket created Time: 22:50:46 hp@hp ~/Documents/S6/Network Lab/Exp4 < master*> └─\$</pre>	<pre>hp@hp ~/Documents/S6/Network Lab/Exp4 <master*> └─\$ java Client Client socket created Date: 2021/04/24 Client socket created Time: 22:50:50 hp@hp ~/Documents/S6/Network Lab/Exp4 <master*> └─\$</pre>
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