Laboratory Assignment #8

Super Store and Per Product Sales Statistics: The Networked Version with UDP

Consider the Super Store and Per Product Sales applications. This time, the processing will be coordinated by a server. The server will start with *n* number of URLs and for each connecting client, the server will send them of them a randomly selected URL.

The clients, after receiving the URL for the file to work on, will download the file, process it (depending on the task, i.e. Super Store or Per Product Sales) and start sending the results to the server. Once all of the calculations are complete for their assigned file, the clients will quit.

Please note that all traffic must be handled using the UDP protocol. You should use the same URLs as in the previous week for your server to get the files.

- http://homes.ieu.edu.tr/culudagli/files/SE375/datasets/01-January.txt
- http://homes.ieu.edu.tr/culudagli/files/SE375/datasets/02-February.txt
- http://homes.ieu.edu.tr/culudagli/files/SE375/datasets/03-March.txt
- http://homes.ieu.edu.tr/culudagli/files/SE375/datasets/04-April.txt
- . . .
- http://homes.ieu.edu.tr/culudagli/files/SE375/datasets/12-December.txt

When the processing of every file is completed, the server should stop listening to the socket and display the results.

The results will be different depending on the task (i.e. Super Store or Per Product Sales). If the task is Per Product Sales, the server should be queried by the user after all the results have been collected. For Super Store, simply displaying the total sales numbers on the console should be enough.