

IS F462 Network Programming

I semester 2014-15

Lab8 Exercise

Write C program *tester.c* that does the following.

1. This program is based on pthreads. Goal of this program is to test a server and print stats. It takes *server_name*, *server_port*, *N*, *req_per_con*, *file_to_request* on command line.
2. It makes *N* (assumption that *N* threads are possible at a given time) no of concurrent connections to a server at a specified port. It creates as many threads as *N*. Each thread connects to a server, sends *req_per_con* HTTP GET requests for *file_to_request*. After sending each request it waits for the reply. For each request, it notes the time when it sends the request and when it receives the reply. Response time is the difference between the two.
3. Each thread computes average response time over all the requests it has sent and writes it in a global array.
4. Program waits for all threads to finish and computes the average and prints the average response time.
5. Each thread should print the thread id, request no whenever it receives a reply from server.

Expected files: *idno_tester.c*, *readme*, screenshot of execution

Submit *fullidno_lab8.zip* file latest by 9 AM on 16th Nov through isf462@gmail.com with the subject: NP141-lab8-exercise.