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Assignment Two ReadMe

Go Back N

Compilation:

javac \*.java

Explanation:

Using the Go Back N protocol, we have a receiver collect datagrams sent from the sender, then acknowledge the packet by sending back an acknowledgment number. Using the reliability number we drop some of the packets and don’t send back an acknowledgment number or write the contents of that packet to the file.

Run Receiver:

java GBNReceiver 127.0.0.1 “send port” “receiver port” “output file” “reliability”

java GBNReceiver 127.0.0.1 5555 5556 output.txt 0

Run Sender:

java GBNSender 127.0.0.1 “receiver port” “send port” “test file” “window size”

java GBNSender 127.0.0.1 5556 5555 small.txt 128

Results:

Small Test File Results (small.txt 8 KB)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Windows = 10 | Window = 40 | Window = 80 |
| RN = 0 | 997ms | 1039ms | 1024ms |
| RN = 10 | 949ms | 997ms | 984ms |
| RN = 100 | 1039ms | 1043ms | 1035ms |

Large Test File Results (large.txt 2.2MB)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Window = 10 | Window = 40 | Window = 80 |
| RN = 0 | 123974ms | 124738ms | 124147ms |
| RN = 10 | Didn’t Work | Didn’t Work | Didn’t Work |
| RN = 100 | Didn’t Work | Didn’t Work | Didn’t Work |