

Student UID:

CS456/A2 Marking Sheet

1.[35] Successfully transmit a file without delay and loss. Test SeqNum and window

- 1.1[20] a file less than 10 packets (6 packets) without delay and loss.
exp result: logs: #0 -- #6 & correct transmitted file
- 1.2[15] a file larger than 32 packets (43 packets) without delay and loss.
exp result: log: #0 -- #31 -- #10 & correct transmitted file

2.[10] Timer

Data: send #0 -#6 (discard #3 data packet twice)
exp result: retransmit packets 3,4,5,6 twice & correct transmitted file

3.[45] GBN behavior

- 3.1 [5] first #0 data get lost,
Data: send # 0,1,2,3 (discard #0 data packet)
exp result: SeqNum.log 0,1,2,3,0,1,2,3
Arrival.log 1,2,3,0,1,2,3
ack.log 0,1,2,3
- 3.2[10] data with delay and loss, test receiver side behavior.
Data: send # 0,1,2,3,4,5,6 (#2 arrive after #3, and #5 get lost)
exp result: SeqNum.log 0,1,2,3,4,5,6,3,4,5,6,
Arrival.log 0,1,3,2,4,6,3,4,5,6
Ack.log 0,1,1,2,2,2,3,4,5,6
- 3.3[10] data with delay and loss, test window sliding.
Data: send # 0,1,2,3,4,5,6,...,16 (data #5 get lost)
exp result: SeqNum.log 0,...,9,...,14,5,...,14,15,16
Arrival.log 0,...,4,6,...,14,5,...,14,15,16
Ack.log 0,...,4,...,4(9),5,...,14,15,16
- 3.4[10] ACK with delay and loss, test cumulative ACK (all data received)
ACK: ack # 0,1,2,3,4,5,6 (ack #1 arrive after #2,#4,#6 get lost)
exp result: SeqNum.log 0,1,2,3,4,5,6,6
Arrival.log 0,1,2,3,4,5,6,6
Ack.log 0,2,1,3,5,6
- 3.5[10] Both Data and ACK get delay and loss (file size > 32 packets(43))
data: send #0,...,43, discard 11th(#10), 36th(#25) arrive after 37th(#26)
ACK: ack 6th(#5) get lost and 47th(#27) arrive after 48th(#28)
Exp: SeqNum.log 0,...,19,10,...,19,20,...,31,0,...,3,26,...,31,0,...,10
Arrival.log 0,...,9,11,...,19,10,...,19,20,...,24,26,25,27,...,3,26,...,10
Ack.log 0,...,4,6,...,9,...,9(9),10,...,24,24,25,...,25(9),26,28,27,29,...,10

4.[10] Other Implementation Issues

- 4.1[5] README & Makefile
- 4.2[5] Comment and code style