**CSE322: Computer Networks Sessional Level: 3, Term: 2 (January 2020)**

----- Stop and Wait Network Simulator Version 1.1 --------

Enter the number of messages to simulate: 10

Enter packet loss probability [enter 0.0 for no loss]:.3

Enter packet corruption probability [0.0 for no corruption]:.3

Enter average time between messages from sender's layer5 [ > 0.0]:1000

Enter TRACE:3

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 0.000000

INSERTEVENT: future time will be 1870.573975

EVENT time: 1870.573975, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 1870.573975

INSERTEVENT: future time will be 3512.483887

MAINLOOP: data given to student: aaaaaaaaaaaaaaaaaaa

Successfully Packet 0 sent to Network layer from A\_output

TOLAYER3: seq: 0, ack 0, check: 1843 aaaaaaaaaaaaaaaaaaa

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 1870.573975

INSERTEVENT: future time will be 1876.039062

START TIMER: starting timer at 1870.573975

INSERTEVENT: time is 1870.573975

INSERTEVENT: future time will be 2869.573975

EVENT time: 1876.039062, type: 2, fromlayer3 entity: 1

Corrupted Packet received in transport Layer B\_input. Sending negative acknowledgement to network layer

TOLAYER3: seq: -1, ack 1, check: 0

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 1876.039062

INSERTEVENT: future time will be 1878.220703

EVENT time: 1878.220703, type: 2, fromlayer3 entity: 0

Negative Acknowledgement received in A\_input.

EVENT time: 2869.573975, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 1 retransmitted to Network layer from A\_output

TOLAYER3: packet being lost

START TIMER: starting timer at 2869.573975

INSERTEVENT: time is 2869.573975

INSERTEVENT: future time will be 3868.573975

EVENT time: 3512.483887, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 3512.483887

INSERTEVENT: future time will be 3739.260742

MAINLOOP: data given to student: bbbbbbbbbbbbbbbbbbb

Packet 2 Ignored because acknowledgement of previous packet not received in A\_output

EVENT time: 3739.260742, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 3739.260742

INSERTEVENT: future time will be 4610.656250

MAINLOOP: data given to student: ccccccccccccccccccc

Packet 3 Ignored because acknowledgement of previous packet not received in A\_output

EVENT time: 3868.573975, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 1 retransmitted to Network layer from A\_output

TOLAYER3: seq: 0, ack 0, check: 1843 aaaaaaaaaaaaaaaaaaa

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 3868.573975

INSERTEVENT: future time will be 3873.041260

START TIMER: starting timer at 3868.573975

INSERTEVENT: time is 3868.573975

INSERTEVENT: future time will be 4867.574219

EVENT time: 3873.041260, type: 2, fromlayer3 entity: 1

Corrupted Packet received in transport Layer B\_input. Sending negative acknowledgement to network layer

TOLAYER3: packet being lost

EVENT time: 4610.656250, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 4610.656250

INSERTEVENT: future time will be 5469.190918

MAINLOOP: data given to student: ddddddddddddddddddd

Packet 4 Ignored because acknowledgement of previous packet not received in A\_output

EVENT time: 4867.574219, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 1 retransmitted to Network layer from A\_output

TOLAYER3: seq: 0, ack 0, check: 1843 aaaaaaaaaaaaaaaaaaa

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 4867.574219

INSERTEVENT: future time will be 4872.846680

START TIMER: starting timer at 4867.574219

INSERTEVENT: time is 4867.574219

INSERTEVENT: future time will be 5866.574219

EVENT time: 4872.846680, type: 2, fromlayer3 entity: 1

Successfully Packet received from network layer in B\_input

Acknowledgement is sending for the Packet received to Network layer from B\_input

TOLAYER5: data received: aaaaaaaaaaaaaaaaaaa

TOLAYER3: seq: 0, ack 0, check: 0

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 4872.846680

INSERTEVENT: future time will be 4877.049316

EVENT time: 4877.049316, type: 2, fromlayer3 entity: 0

STOP TIMER: stopping timer at 4877.049316

Success Acknowledge received in A\_input

EVENT time: 5469.190918, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 5469.190918

INSERTEVENT: future time will be 7251.116211

MAINLOOP: data given to student: eeeeeeeeeeeeeeeeeee

Successfully Packet 4 sent to Network layer from A\_output

TOLAYER3: packet being lost

START TIMER: starting timer at 5469.190918

INSERTEVENT: time is 5469.190918

INSERTEVENT: future time will be 6468.190918

EVENT time: 6468.190918, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 5 retransmitted to Network layer from A\_output

TOLAYER3: seq: 1, ack 0, check: 1920 eeeeeeeeeeeeeeeeeee

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 6468.190918

INSERTEVENT: future time will be 6472.254395

START TIMER: starting timer at 6468.190918

INSERTEVENT: time is 6468.190918

INSERTEVENT: future time will be 7467.190918

EVENT time: 6472.254395, type: 2, fromlayer3 entity: 1

Corrupted Packet received in transport Layer B\_input. Sending negative acknowledgement to network layer

TOLAYER3: seq: -1, ack 0, check: 1163 aaaaaaaaaaaa

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 6472.254395

INSERTEVENT: future time will be 6474.038086

EVENT time: 6474.038086, type: 2, fromlayer3 entity: 0

Negative Acknowledgement received in A\_input.

EVENT time: 7251.116211, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 7251.116211

INSERTEVENT: future time will be 8417.564453

MAINLOOP: data given to student: fffffffffffffffffff

Packet 6 Ignored because acknowledgement of previous packet not received in A\_output

EVENT time: 7467.190918, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 5 retransmitted to Network layer from A\_output

TOLAYER3: seq: 1, ack 0, check: 1920 eeeeeeeeeeeeeeeeeee

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 7467.190918

INSERTEVENT: future time will be 7474.392578

START TIMER: starting timer at 7467.190918

INSERTEVENT: time is 7467.190918

INSERTEVENT: future time will be 8466.191406

EVENT time: 7474.392578, type: 2, fromlayer3 entity: 1

Corrupted Packet received in transport Layer B\_input. Sending negative acknowledgement to network layer

TOLAYER3: seq: -1, ack 0, check: 134 p!V

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 7474.392578

INSERTEVENT: future time will be 7477.023438

EVENT time: 7477.023438, type: 2, fromlayer3 entity: 0

Negative Acknowledgement received in A\_input.

EVENT time: 8417.564453, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 8417.564453

INSERTEVENT: future time will be 10364.064453

MAINLOOP: data given to student: ggggggggggggggggggg

Packet 7 Ignored because acknowledgement of previous packet not received in A\_output

EVENT time: 8466.191406, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 5 retransmitted to Network layer from A\_output

TOLAYER3: packet being lost

START TIMER: starting timer at 8466.191406

INSERTEVENT: time is 8466.191406

INSERTEVENT: future time will be 9465.191406

EVENT time: 9465.191406, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 5 retransmitted to Network layer from A\_output

TOLAYER3: seq: 1, ack 0, check: 1920 eeeeeeeeeeeeeeeeeee

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 9465.191406

INSERTEVENT: future time will be 9466.250000

START TIMER: starting timer at 9465.191406

INSERTEVENT: time is 9465.191406

INSERTEVENT: future time will be 10464.191406

EVENT time: 9466.250000, type: 2, fromlayer3 entity: 1

Successfully Packet received from network layer in B\_input

Acknowledgement is sending for the Packet received to Network layer from B\_input

TOLAYER5: data received: eeeeeeeeeeeeeeeeeee

TOLAYER3: packet being lost

EVENT time: 10364.064453, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 10364.064453

INSERTEVENT: future time will be 11235.591797

MAINLOOP: data given to student: hhhhhhhhhhhhhhhhhhh

Packet 8 Ignored because acknowledgement of previous packet not received in A\_output

EVENT time: 10464.191406, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 5 retransmitted to Network layer from A\_output

TOLAYER3: seq: 1, ack 0, check: 1920 eeeeeeeeeeeeeeeeeee

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 10464.191406

INSERTEVENT: future time will be 10469.770508

START TIMER: starting timer at 10464.191406

INSERTEVENT: time is 10464.191406

INSERTEVENT: future time will be 11463.191406

EVENT time: 10469.770508, type: 2, fromlayer3 entity: 1

Unknown Packet received in B\_input. Retransmitting previous acknowledgement

TOLAYER3: seq: 1, ack 1, check: 1214 eeeeeeeeeeee

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 10469.770508

INSERTEVENT: future time will be 10476.020508

EVENT time: 10476.020508, type: 2, fromlayer3 entity: 0

Data corrupted Acknowledgement received in A\_input. Retransmitting packet after timer interupt

EVENT time: 11235.591797, type: 1, fromlayer5 entity: 0

GENERATE NEXT ARRIVAL: creating new arrival

INSERTEVENT: time is 11235.591797

INSERTEVENT: future time will be 11881.031250

MAINLOOP: data given to student: iiiiiiiiiiiiiiiiiii

Packet 9 Ignored because acknowledgement of previous packet not received in A\_output

EVENT time: 11463.191406, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 5 retransmitted to Network layer from A\_output

TOLAYER3: seq: 1, ack 0, check: 1920 eeeeeeeeeeeeeeeeeee

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 11463.191406

INSERTEVENT: future time will be 11466.069336

START TIMER: starting timer at 11463.191406

INSERTEVENT: time is 11463.191406

INSERTEVENT: future time will be 12462.191406

EVENT time: 11466.069336, type: 2, fromlayer3 entity: 1

Unknown Packet received in B\_input. Retransmitting previous acknowledgement

TOLAYER3: seq: 1, ack 1, check: 1214 eeeeeeeeeeee

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 11466.069336

INSERTEVENT: future time will be 11469.731445

EVENT time: 11469.731445, type: 2, fromlayer3 entity: 0

STOP TIMER: stopping timer at 11469.731445

Success Acknowledge received in A\_input

EVENT time: 11881.031250, type: 1, fromlayer5 entity: 0

MAINLOOP: data given to student: jjjjjjjjjjjjjjjjjjj

Successfully Packet 9 sent to Network layer from A\_output

TOLAYER3: seq: 0, ack 0, check: 2014 jjjjjjjjjjjjjjjjjjj

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 11881.031250

INSERTEVENT: future time will be 11889.942383

START TIMER: starting timer at 11881.031250

INSERTEVENT: time is 11881.031250

INSERTEVENT: future time will be 12880.031250

EVENT time: 11889.942383, type: 2, fromlayer3 entity: 1

Corrupted Packet received in transport Layer B\_input. Sending negative acknowledgement to network layer

TOLAYER3: seq: -1, ack 1, check: 39 \_x0010\_!V

TOLAYER3: packet being corrupted

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 11889.942383

INSERTEVENT: future time will be 11895.559570

EVENT time: 11895.559570, type: 2, fromlayer3 entity: 0

Negative Acknowledgement received in A\_input.

EVENT time: 12880.031250, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 10 retransmitted to Network layer from A\_output

TOLAYER3: packet being lost

START TIMER: starting timer at 12880.031250

INSERTEVENT: time is 12880.031250

INSERTEVENT: future time will be 13879.031250

EVENT time: 13879.031250, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 10 retransmitted to Network layer from A\_output

TOLAYER3: packet being lost

START TIMER: starting timer at 13879.031250

INSERTEVENT: time is 13879.031250

INSERTEVENT: future time will be 14878.031250

EVENT time: 14878.031250, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 10 retransmitted to Network layer from A\_output

TOLAYER3: packet being lost

START TIMER: starting timer at 14878.031250

INSERTEVENT: time is 14878.031250

INSERTEVENT: future time will be 15877.031250

EVENT time: 15877.031250, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 10 retransmitted to Network layer from A\_output

TOLAYER3: packet being lost

START TIMER: starting timer at 15877.031250

INSERTEVENT: time is 15877.031250

INSERTEVENT: future time will be 16876.031250

EVENT time: 16876.031250, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 10 retransmitted to Network layer from A\_output

TOLAYER3: packet being lost

START TIMER: starting timer at 16876.031250

INSERTEVENT: time is 16876.031250

INSERTEVENT: future time will be 17875.031250

EVENT time: 17875.031250, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 10 retransmitted to Network layer from A\_output

TOLAYER3: seq: 0, ack 0, check: 2014 jjjjjjjjjjjjjjjjjjj

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 17875.031250

INSERTEVENT: future time will be 17877.144531

START TIMER: starting timer at 17875.031250

INSERTEVENT: time is 17875.031250

INSERTEVENT: future time will be 18874.031250

EVENT time: 17877.144531, type: 2, fromlayer3 entity: 1

Successfully Packet received from network layer in B\_input

Acknowledgement is sending for the Packet received to Network layer from B\_input

TOLAYER5: data received: jjjjjjjjjjjjjjjjjjj

TOLAYER3: packet being lost

EVENT time: 18874.031250, type: 0, timerinterrupt entity: 0

In A\_timerinterrupt- Enough waiting, No Successful Acknowledgement received. Retransmitting

Successfully Packet 10 retransmitted to Network layer from A\_output

TOLAYER3: seq: 0, ack 0, check: 2014 jjjjjjjjjjjjjjjjjjj

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 18874.031250

INSERTEVENT: future time will be 18880.263672

START TIMER: starting timer at 18874.031250

INSERTEVENT: time is 18874.031250

INSERTEVENT: future time will be 19873.031250

EVENT time: 18880.263672, type: 2, fromlayer3 entity: 1

Unknown Packet received in B\_input. Retransmitting previous acknowledgement

TOLAYER3: seq: 0, ack 0, check: 1272 jjjjjjjjjjjj

TOLAYER3: scheduling arrival on other side

INSERTEVENT: time is 18880.263672

INSERTEVENT: future time will be 18882.746094

EVENT time: 18882.746094, type: 2, fromlayer3 entity: 0

STOP TIMER: stopping timer at 18882.746094

Success Acknowledge received in A\_input

Simulator terminated at time 18882.746094

after sending 10 msgs from layer5