

ABT validation:

----- 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]:0.2

Enter packet corruption probability [0.0 for no corruption]:0.2

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

Enter TRACE:2

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

sending message

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

sending ack TOLAYER3: packet being corrupted

EVENT time: 1881.270630, type: 2, fromlayer3 entity: 0

received ack 1

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

TOLAYER3: packet being lost

sending message

EVENT time: 3527.483887, type: 0, timerinterrupt entity: 0

Timer has gone off resending

sending message

EVENT time: 3536.728516, type: 2, fromlayer3 entity: 1

sending ack TOLAYER3: packet being lost

EVENT time: 3542.483887, type: 0, timerinterrupt entity: 0

Timer has gone off resending

sending message

EVENT time: 3543.962402, type: 2, fromlayer3 entity: 1
received invalid packet dropping the packet sending last_ack

EVENT time: 3549.234619, type: 2, fromlayer3 entity: 0
received ack 2

EVENT time: 3768.044678, type: 1, fromlayer5 entity: 0
sending message

EVENT time: 3774.074219, type: 2, fromlayer3 entity: 1
sending ack TOLAYER3: packet being lost

EVENT time: 3783.044678, type: 0, timerinterrupt entity: 0
Timer has gone off resending

 TOLAYER3: packet being corrupted
sending message

EVENT time: 3787.108398, type: 2, fromlayer3 entity: 1
received invalid packet dropping the packet sending last_ack TOLAYER3: packet being corrupted

EVENT time: 3788.892334, type: 2, fromlayer3 entity: 0
sending message

EVENT time: 3793.051025, type: 2, fromlayer3 entity: 1
received invalid packet dropping the packet sending last_ack TOLAYER3: packet being lost

EVENT time: 3803.892334, type: 0, timerinterrupt entity: 0
Timer has gone off resending

 TOLAYER3: packet being corrupted
sending message

EVENT time: 3809.730225, type: 2, fromlayer3 entity: 1
received invalid packet dropping the packet sending last_ack

EVENT time: 3811.605469, type: 2, fromlayer3 entity: 0
received ack 3

EVENT time: 5204.248047, type: 1, fromlayer5 entity: 0

sending message

EVENT time: 5205.554199, type: 2, fromlayer3 entity: 1

sending ack TOLAYER3: packet being corrupted

EVENT time: 5211.132812, type: 2, fromlayer3 entity: 0

received ack 4

EVENT time: 5217.240234, type: 1, fromlayer5 entity: 0

TOLAYER3: packet being corrupted

sending message

EVENT time: 5218.996094, type: 2, fromlayer3 entity: 1

received invalid packet dropping the packet sending last_ack

EVENT time: 5221.874023, type: 2, fromlayer3 entity: 0

sending message

EVENT time: 5225.535645, type: 2, fromlayer3 entity: 1

sending ack TOLAYER3: packet being corrupted

EVENT time: 5234.446289, type: 2, fromlayer3 entity: 0

received ack 5

EVENT time: 6946.409180, type: 1, fromlayer5 entity: 0

TOLAYER3: packet being corrupted

sending message

EVENT time: 6948.681641, type: 2, fromlayer3 entity: 1

received invalid packet dropping the packet sending last_ack TOLAYER3: packet being lost

EVENT time: 6961.409180, type: 0, timerinterrupt entity: 0

Timer has gone off resending

TOLAYER3: packet being corrupted

sending message

EVENT time: 6963.215332, type: 2, fromlayer3 entity: 1

received invalid packet dropping the packet sending last_ack

TOLAYER3: packet being lost

EVENT time: 6976.409180, type: 0, timerinterrupt entity: 0

Timer has gone off resending

sending message

EVENT time: 6979.426270, type: 2, fromlayer3 entity: 1

sending ack

EVENT time: 6984.180176, type: 2, fromlayer3 entity: 0

received ack 6

EVENT time: 8811.167969, type: 1, fromlayer5 entity: 0

sending message

EVENT time: 8817.152344, type: 2, fromlayer3 entity: 1

sending ack TOLAYER3: packet being corrupted

EVENT time: 8825.014648, type: 2, fromlayer3 entity: 0

received ack 7

EVENT time: 9140.584961, type: 1, fromlayer5 entity: 0

sending message

EVENT time: 9148.542969, type: 2, fromlayer3 entity: 1

sending ack

EVENT time: 9152.935547, type: 2, fromlayer3 entity: 0

received ack 8

EVENT time: 9256.963867, type: 1, fromlayer5 entity: 0

sending message

EVENT time: 9266.811523, type: 2, fromlayer3 entity: 1

sending ack

EVENT time: 9269.556641, type: 2, fromlayer3 entity: 0

received ack 9

EVENT time: 9861.018555, type: 1, fromlayer5 entity: 0
sending message

EVENT time: 9867.633789, type: 2, fromlayer3 entity: 1

Simulator terminated at time 9867.633789

after sending 10 msgs from layer5

Protocol: Alternating-Bit Protocol

10 of packets sent from the Application Layer of Sender A

18 of packets sent from the Transport Layer of Sender A

16 packets received at the Transport layer of Receiver B

9 of packets received at the Application layer of Receiver B

Total time: 9867.63379 time units

Throughput = 0.00091 packets/time units

GBN Validation:

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

Enter the number of messages to simulate: 20

Enter packet loss probability [enter 0.0 for no loss]:0.2

Enter packet corruption probability [0.0 for no corruption]:0.2

Enter average time between messages from sender's layer5 [> 0.0]:50

Enter TRACE:2

EVENT time: 93.528702, type: 1, fromlayer5 entity: 0

Sending message 0

EVENT time: 98.993797, type: 2, fromlayer3 entity: 1

sending ack 0

TOLAYER3: packet being corrupted

EVENT time: 104.225410, type: 2, fromlayer3 entity: 0

recved ack 0

EVENT time: 175.624207, type: 1, fromlayer5 entity: 0

Sending message 1

TOLAYER3: packet being lost

EVENT time: 188.402252, type: 1, fromlayer5 entity: 0

Sending message 2

TOLAYER3: packet being corrupted

EVENT time: 192.869522, type: 2, fromlayer3 entity: 1

received invalid packet dropping the packet sending last_ack

TOLAYER3: packet being lost

EVENT time: 213.402252, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 1

Sending message 2

sent the messages

EVENT time: 222.830673, type: 2, fromlayer3 entity: 1

sending ack 1

TOLAYER3: packet being corrupted

EVENT time: 230.293594, type: 2, fromlayer3 entity: 1

sending ack 2

EVENT time: 231.849335, type: 2, fromlayer3 entity: 0

received ack 1

EVENT time: 231.972015, type: 1, fromlayer5 entity: 0

Sending message 3

TOLAYER3: packet being lost

EVENT time: 234.215683, type: 2, fromlayer3 entity: 0

received ack 2

EVENT time: 282.825348, type: 1, fromlayer5 entity: 0

Sending message 4

EVENT time: 289.074371, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 291.730865, type: 1, fromlayer5 entity: 0

Sending message 5

TOLAYER3: packet being lost

EVENT time: 316.730865, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 3

TOLAYER3: packet being corrupted

Sending message 4

Sending message 5

TOLAYER3: packet being lost

sent the messages

EVENT time: 322.568848, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 323.875244, type: 2, fromlayer3 entity: 0

EVENT time: 324.444031, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 341.730865, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 3

TOLAYER3: packet being corrupted

Sending message 4

TOLAYER3: packet being corrupted

Sending message 5

sent the messages

EVENT time: 347.309479, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 353.559418, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 356.705566, type: 2, fromlayer3 entity: 0

EVENT time: 358.378693, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 360.640137, type: 1, fromlayer5 entity: 0

Sending message 6

EVENT time: 363.723053, type: 1, fromlayer5 entity: 0

Sending message 7

TOLAYER3: packet being lost

EVENT time: 365.938324, type: 2, fromlayer3 entity: 0

EVENT time: 370.031555, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 377.862701, type: 1, fromlayer5 entity: 0

Sending message 8

TOLAYER3: packet being lost

EVENT time: 388.733490, type: 1, fromlayer5 entity: 0

Sending message 9

TOLAYER3: packet being lost

EVENT time: 409.814209, type: 1, fromlayer5 entity: 0

Sending message 10

EVENT time: 411.926941, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 421.928467, type: 1, fromlayer5 entity: 0

Sending message 11

EVENT time: 428.160919, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 444.340027, type: 1, fromlayer5 entity: 0

Sending message 12

TOLAYER3: packet being lost

EVENT time: 469.340027, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 3

Sending message 4

TOLAYER3: packet being corrupted

Sending message 5

TOLAYER3: packet being lost

Sending message 6

Sending message 7

Sending message 8

Sending message 9

TOLAYER3: packet being corrupted

Sending message 10

Sending message 11

Sending message 12

sent the messages

EVENT time: 475.324127, type: 2, fromlayer3 entity: 1

sending ack 3

TOLAYER3: packet being lost

sending ack 4, for buffered packets

TOLAYER3: packet being lost

sending ack 5, for buffered packets

TOLAYER3: packet being corrupted

sending ack 6, for buffered packets

TOLAYER3: packet being corrupted

EVENT time: 481.225098, type: 2, fromlayer3 entity: 0

recved ack 5

EVENT time: 483.186066, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

TOLAYER3: packet being corrupted

EVENT time: 490.048218, type: 2, fromlayer3 entity: 0

recved ack 6

EVENT time: 491.143921, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 491.632080, type: 2, fromlayer3 entity: 0

EVENT time: 494.035614, type: 1, fromlayer5 entity: 0

Sending message 13

TOLAYER3: packet being corrupted

EVENT time: 495.536377, type: 2, fromlayer3 entity: 1

sending ack 7

TOLAYER3: packet being corrupted

EVENT time: 496.879211, type: 2, fromlayer3 entity: 0

EVENT time: 498.370392, type: 2, fromlayer3 entity: 0

recved ack 7

EVENT time: 501.201416, type: 2, fromlayer3 entity: 1

sending ack 8

TOLAYER3: packet being corrupted

EVENT time: 504.570831, type: 2, fromlayer3 entity: 0

recved ack 8

EVENT time: 507.898254, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

TOLAYER3: packet being lost

EVENT time: 517.386414, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 519.891663, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 526.150940, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 528.686279, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

TOLAYER3: packet being lost

EVENT time: 585.788330, type: 1, fromlayer5 entity: 0

Sending message 14

EVENT time: 593.356873, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 610.788330, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 9

Sending message 10

Sending message 11

Sending message 12

Sending message 13

TOLAYER3: packet being corrupted

Sending message 14

sent the messages

EVENT time: 614.962036, type: 2, fromlayer3 entity: 1

sending ack 9

sending ack 10, for buffered packets

sending ack 11, for buffered packets

sending ack 12, for buffered packets

EVENT time: 618.680237, type: 2, fromlayer3 entity: 0

recved ack 9

EVENT time: 622.564026, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

TOLAYER3: packet being corrupted

EVENT time: 623.551880, type: 2, fromlayer3 entity: 0

recved ack 10

EVENT time: 630.091125, type: 2, fromlayer3 entity: 0

recved ack 11

EVENT time: 631.694946, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 634.198853, type: 2, fromlayer3 entity: 0

recved ack 12

EVENT time: 636.072937, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 639.394714, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 640.991211, type: 2, fromlayer3 entity: 1

Buffering packet

EVENT time: 641.480286, type: 2, fromlayer3 entity: 0

EVENT time: 647.985657, type: 2, fromlayer3 entity: 0

EVENT time: 649.391296, type: 2, fromlayer3 entity: 0

EVENT time: 650.535645, type: 2, fromlayer3 entity: 0

EVENT time: 674.951294, type: 1, fromlayer5 entity: 0

Sending message 15

TOLAYER3: packet being lost

EVENT time: 699.951294, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 13

Sending message 14

Sending message 15

sent the messages

EVENT time: 706.433899, type: 2, fromlayer3 entity: 1

sending ack 13

sending ack 14, for buffered packets

EVENT time: 708.296814, type: 2, fromlayer3 entity: 0

recved ack 13

EVENT time: 709.747314, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 712.260986, type: 2, fromlayer3 entity: 1

sending ack 15

TOLAYER3: packet being corrupted

EVENT time: 712.421753, type: 2, fromlayer3 entity: 0

recved ack 14

EVENT time: 722.347168, type: 2, fromlayer3 entity: 0

EVENT time: 724.760864, type: 2, fromlayer3 entity: 0

recved ack 15

EVENT time: 771.775085, type: 1, fromlayer5 entity: 0

Sending message 16

TOLAYER3: packet being corrupted

EVENT time: 773.878845, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

TOLAYER3: packet being lost

EVENT time: 796.775085, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 16

sent the messages

EVENT time: 798.312622, type: 2, fromlayer3 entity: 1

sending ack 16

TOLAYER3: packet being lost

EVENT time: 821.775085, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 16

TOLAYER3: packet being corrupted

sent the messages

EVENT time: 827.456421, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

TOLAYER3: packet being lost

EVENT time: 846.775085, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 16

TOLAYER3: packet being corrupted

sent the messages

EVENT time: 848.622253, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

TOLAYER3: packet being lost

EVENT time: 862.593994, type: 1, fromlayer5 entity: 0

Sending message 17

EVENT time: 868.429077, type: 2, fromlayer3 entity: 1

sending ack 17

TOLAYER3: packet being lost

EVENT time: 887.593994, type: 0, timerinterrupt entity: 0

Timer has gone off

Sending old messages

Sending message 16

Sending message 17

sent the messages

EVENT time: 889.541931, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 891.906494, type: 2, fromlayer3 entity: 1

received invlid packet dropping the packet sending last_ack

EVENT time: 895.337463, type: 2, fromlayer3 entity: 0

recved ack 17

EVENT time: 901.956360, type: 2, fromlayer3 entity: 0

EVENT time: 919.961121, type: 1, fromlayer5 entity: 0

Sending message 18

EVENT time: 922.998108, type: 2, fromlayer3 entity: 1

sending ack 18

EVENT time: 930.716370, type: 2, fromlayer3 entity: 0

recved ack 18

EVENT time: 986.170776, type: 1, fromlayer5 entity: 0

Sending message 19

EVENT time: 991.783813, type: 2, fromlayer3 entity: 1

Simulator terminated at time 991.783813

after sending 20 msgs from layer5

Protocol: Go Back-N

20 of packets sent from the Application Layer of Sender A

52 of packets sent from the Transport Layer of Sender A

41 packets received at the Transport layer of Receiver B

19 of packets received at the Application layer of Receiver B

Total time: 991.783813 time units

Throughput = 0.01916 packets/time units

SR Validation:

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

Enter the number of messages to simulate: 20

Enter packet loss probability [enter 0.0 for no loss]:0.2

Enter packet corruption probability [0.0 for no corruption]:0.2

Enter average time between messages from sender's layer5 [> 0.0]:50

Enter TRACE:2

EVENT time: 93.528702, type: 1, fromlayer5 entity: 0

Sending 0 message

EVENT time: 98.993797, type: 2, fromlayer3 entity: 1

sending ack 0

TOLAYER3: packet being corrupted

EVENT time: 104.225410, type: 2, fromlayer3 entity: 0

recved ack 0

EVENT time: 175.624207, type: 1, fromlayer5 entity: 0

Sending 1 message TOLAYER3: packet being lost

EVENT time: 188.402252, type: 1, fromlayer5 entity: 0

Sending 2 message TOLAYER3: packet being corrupted

EVENT time: 192.869522, type: 2, fromlayer3 entity: 1

EVENT time: 208.624207, type: 0, timerinterrupt entity: 0

Timer has gone off for 1

timer set for:1Sending 1 message TOLAYER3: packet being lost

EVENT time: 208.624207, type: 0, timerinterrupt entity: 0

Timer has gone off for 1

timer set for:2Sending 1 message

EVENT time: 218.052628, type: 2, fromlayer3 entity: 1

sending ack 1

EVENT time: 221.402252, type: 0, timerinterrupt entity: 0

Timer has gone off for 2

timer set for:2Sending 2 message TOLAYER3: packet being corrupted

EVENT time: 221.402252, type: 0, timerinterrupt entity: 0

Timer has gone off for 2

timer set for:1Sending 2 message

EVENT time: 225.515549, type: 2, fromlayer3 entity: 0

recved ack 1

timer set for:2

EVENT time: 230.420914, type: 2, fromlayer3 entity: 1

EVENT time: 231.972015, type: 1, fromlayer5 entity: 0

Sending 3 message TOLAYER3: packet being lost

EVENT time: 232.787262, type: 2, fromlayer3 entity: 1

sending ack 2

TOLAYER3: packet being lost

EVENT time: 254.402252, type: 0, timerinterrupt entity: 0

Timer has gone off for 2

timer set for:2Sending 2 message

EVENT time: 254.402252, type: 0, timerinterrupt entity: 0

Timer has gone off for 2

timer set for:3Sending 2 message

EVENT time: 260.651276, type: 2, fromlayer3 entity: 1

sending ack 2

EVENT time: 262.131897, type: 2, fromlayer3 entity: 1

sending ack 2

EVENT time: 263.281921, type: 2, fromlayer3 entity: 0

recved ack 2

timer set for:3

EVENT time: 264.972015, type: 0, timerinterrupt entity: 0

Timer has gone off for 3

timer set for:3Sending 3 message TOLAYER3: packet being lost

EVENT time: 264.972015, type: 0, timerinterrupt entity: 0

Timer has gone off for 3

Sending 3 messageTimer set for 3

EVENT time: 265.157104, type: 2, fromlayer3 entity: 0

EVENT time: 266.278412, type: 2, fromlayer3 entity: 1

sending ack 3

TOLAYER3: packet being corrupted

EVENT time: 271.857025, type: 2, fromlayer3 entity: 0

recved ack 3

EVENT time: 282.825348, type: 1, fromlayer5 entity: 0

Sending 4 message TOLAYER3: packet being corrupted

EVENT time: 284.581024, type: 2, fromlayer3 entity: 1

EVENT time: 315.825348, type: 0, timerinterrupt entity: 0

Timer has gone off for 4

timer set for:4Sending 4 message

EVENT time: 315.825348, type: 0, timerinterrupt entity: 0

Timer has gone off for 4

Sending 4 messageTimer set for 4

EVENT time: 318.703186, type: 2, fromlayer3 entity: 1

sending ack 4

TOLAYER3: packet being corrupted

EVENT time: 322.364960, type: 2, fromlayer3 entity: 1

sending ack 4

TOLAYER3: packet being corrupted

EVENT time: 327.613983, type: 2, fromlayer3 entity: 0

recved ack 4

EVENT time: 333.231659, type: 2, fromlayer3 entity: 0

EVENT time: 369.283783, type: 1, fromlayer5 entity: 0

Sending 5 message TOLAYER3: packet being lost

EVENT time: 380.154572, type: 1, fromlayer5 entity: 0

Sending 6 message TOLAYER3: packet being lost

EVENT time: 401.235291, type: 1, fromlayer5 entity: 0

Sending 7 message

EVENT time: 402.283783, type: 0, timerinterrupt entity: 0

Timer has gone off for 5

timer set for:5Sending 5 message

EVENT time: 402.283783, type: 0, timerinterrupt entity: 0

Timer has gone off for 5

timer set for:6Sending 5 message TOLAYER3: packet being corrupted

EVENT time: 403.348022, type: 2, fromlayer3 entity: 1

sending ack 7

EVENT time: 408.734863, type: 2, fromlayer3 entity: 0

recved ack 7

EVENT time: 410.039368, type: 2, fromlayer3 entity: 1

sending ack 5

EVENT time: 411.743591, type: 2, fromlayer3 entity: 0

recved ack 5

timer set for:6

EVENT time: 413.154572, type: 0, timerinterrupt entity: 0

Timer has gone off for 6

timer set for:6Sending 6 message TOLAYER3: packet being lost

EVENT time: 413.154572, type: 0, timerinterrupt entity: 0

Timer has gone off for 6

Sending 6 messageTimer set for 6

EVENT time: 413.349548, type: 1, fromlayer5 entity: 0

Sending 8 message

EVENT time: 415.511963, type: 2, fromlayer3 entity: 1

EVENT time: 423.469818, type: 2, fromlayer3 entity: 1

sending ack 6

Delivering buffered packet to upper layer

EVENT time: 432.295715, type: 2, fromlayer3 entity: 1

sending ack 8

EVENT time: 433.317780, type: 2, fromlayer3 entity: 0

recved ack 6

timer set for:8

EVENT time: 436.063019, type: 2, fromlayer3 entity: 0

recved ack 8

EVENT time: 492.244843, type: 1, fromlayer5 entity: 0

Sending 9 message

EVENT time: 498.860535, type: 2, fromlayer3 entity: 1

sending ack 9

TOLAYER3: packet being lost

EVENT time: 525.244873, type: 0, timerinterrupt entity: 0

Timer has gone off for 9

timer set for:9Sending 9 message

EVENT time: 525.244873, type: 0, timerinterrupt entity: 0

Timer has gone off for 9

Sending 9 message TOLAYER3: packet being corrupted

Timer set for 9

EVENT time: 534.276611, type: 2, fromlayer3 entity: 1

sending ack 9

TOLAYER3: packet being corrupted

EVENT time: 535.374634, type: 2, fromlayer3 entity: 0

recved ack 9

EVENT time: 535.790710, type: 2, fromlayer3 entity: 1

EVENT time: 567.657410, type: 1, fromlayer5 entity: 0

Sending 10 message TOLAYER3: packet being lost

EVENT time: 600.657410, type: 0, timerinterrupt entity: 0

Timer has gone off for 10

timer set for:10Sending 10 message TOLAYER3: packet being corrupted

EVENT time: 600.657410, type: 0, timerinterrupt entity: 0

Timer has gone off for 10

Sending 10 message TOLAYER3: packet being lost

Timer set for 10

EVENT time: 607.438416, type: 2, fromlayer3 entity: 1

EVENT time: 633.657410, type: 0, timerinterrupt entity: 0

Timer has gone off for 10

timer set for:10Sending 10 message

EVENT time: 633.657410, type: 0, timerinterrupt entity: 0

Timer has gone off for 10

Sending 10 message TOLAYER3: packet being corrupted

Timer set for 10

EVENT time: 638.904541, type: 2, fromlayer3 entity: 1

sending ack 10

TOLAYER3: packet being corrupted

EVENT time: 647.848267, type: 2, fromlayer3 entity: 1

EVENT time: 648.226990, type: 2, fromlayer3 entity: 0

recved ack 10

EVENT time: 654.580994, type: 1, fromlayer5 entity: 0

Sending 11 message TOLAYER3: packet being corrupted

EVENT time: 657.950378, type: 2, fromlayer3 entity: 1

EVENT time: 678.155823, type: 1, fromlayer5 entity: 0

Sending 12 message TOLAYER3: packet being lost

EVENT time: 679.811768, type: 1, fromlayer5 entity: 0

Sending 13 message

EVENT time: 687.380310, type: 2, fromlayer3 entity: 1

sending ack 13

EVENT time: 687.580994, type: 0, timerinterrupt entity: 0

Timer has gone off for 11

timer set for:11Sending 11 message

EVENT time: 687.580994, type: 0, timerinterrupt entity: 0

Timer has gone off for 11

timer set for:12Sending 11 message

EVENT time: 691.554016, type: 2, fromlayer3 entity: 0

recved ack 13

EVENT time: 695.182983, type: 2, fromlayer3 entity: 1

sending ack 11

EVENT time: 699.560974, type: 2, fromlayer3 entity: 0

recved ack 11

timer set for:12

EVENT time: 704.313904, type: 2, fromlayer3 entity: 1

sending ack 11

TOLAYER3: packet being corrupted

EVENT time: 707.635681, type: 2, fromlayer3 entity: 0

EVENT time: 711.155823, type: 0, timerinterrupt entity: 0

Timer has gone off for 12

timer set for:12Sending 12 message

EVENT time: 711.155823, type: 0, timerinterrupt entity: 0

Timer has gone off for 12

Sending 12 messageTimer set for 12

EVENT time: 712.752319, type: 2, fromlayer3 entity: 1

sending ack 12

Delivering buffered packet to upper layer

EVENT time: 716.470520, type: 2, fromlayer3 entity: 1

sending ack 12

EVENT time: 717.623962, type: 2, fromlayer3 entity: 0

recved ack 12

EVENT time: 724.163208, type: 2, fromlayer3 entity: 0

EVENT time: 768.974731, type: 1, fromlayer5 entity: 0

Sending 14 message

EVENT time: 773.807495, type: 2, fromlayer3 entity: 1

sending ack 14

TOLAYER3: packet being corrupted

EVENT time: 776.586060, type: 2, fromlayer3 entity: 0

recved ack 14

EVENT time: 794.108398, type: 1, fromlayer5 entity: 0

Sending 15 message TOLAYER3: packet being corrupted

EVENT time: 798.122742, type: 2, fromlayer3 entity: 1

EVENT time: 827.108398, type: 0, timerinterrupt entity: 0

Timer has gone off for 15

timer set for:15Sending 15 message

EVENT time: 827.108398, type: 0, timerinterrupt entity: 0

Timer has gone off for 15

Sending 15 messageTimer set for 15

EVENT time: 828.252747, type: 2, fromlayer3 entity: 1

sending ack 15

EVENT time: 830.671082, type: 2, fromlayer3 entity: 1

sending ack 15

EVENT time: 831.267578, type: 2, fromlayer3 entity: 0

recved ack 15

EVENT time: 837.000610, type: 2, fromlayer3 entity: 0

EVENT time: 855.279297, type: 1, fromlayer5 entity: 0

Sending 16 message TOLAYER3: packet being corrupted

EVENT time: 859.150635, type: 2, fromlayer3 entity: 1

EVENT time: 872.097778, type: 1, fromlayer5 entity: 0

Sending 17 message

EVENT time: 881.349487, type: 2, fromlayer3 entity: 1

sending ack 17

EVENT time: 887.882629, type: 2, fromlayer3 entity: 0

recved ack 17

EVENT time: 888.279297, type: 0, timerinterrupt entity: 0

Timer has gone off for 16

timer set for:16Sending 16 message TOLAYER3: packet being lost

EVENT time: 888.279297, type: 0, timerinterrupt entity: 0

Timer has gone off for 16

Sending 16 message TOLAYER3: packet being lost

Timer set for 16

EVENT time: 921.279297, type: 0, timerinterrupt entity: 0

Timer has gone off for 16

timer set for:16Sending 16 message TOLAYER3: packet being lost

EVENT time: 921.279297, type: 0, timerinterrupt entity: 0

Timer has gone off for 16

Sending 16 message TOLAYER3: packet being corrupted

Timer set for 16

EVENT time: 925.710266, type: 2, fromlayer3 entity: 1

EVENT time: 954.279297, type: 0, timerinterrupt entity: 0

Timer has gone off for 16

timer set for:16Sending 16 message TOLAYER3: packet being lost

EVENT time: 954.279297, type: 0, timerinterrupt entity: 0

Timer has gone off for 16

Sending 16 message TOLAYER3: packet being lost

Timer set for 16

EVENT time: 956.335754, type: 1, fromlayer5 entity: 0

Sending 18 message TOLAYER3: packet being lost

EVENT time: 987.279297, type: 0, timerinterrupt entity: 0

Timer has gone off for 16

timer set for:16Sending 16 message

EVENT time: 987.279297, type: 0, timerinterrupt entity: 0

Timer has gone off for 16

timer set for:18Sending 16 message

EVENT time: 989.335754, type: 0, timerinterrupt entity: 0

Timer has gone off for 18

timer set for:18Sending 18 message TOLAYER3: packet being lost

EVENT time: 989.335754, type: 0, timerinterrupt entity: 0

Timer has gone off for 18

timer set for:16Sending 18 message TOLAYER3: packet being corrupted

EVENT time: 989.597900, type: 2, fromlayer3 entity: 1

sending ack 16

TOLAYER3: packet being lost

Delivering buffered packet to upper layer

EVENT time: 990.672729, type: 2, fromlayer3 entity: 1

sending ack 16

EVENT time: 992.519897, type: 2, fromlayer3 entity: 1

EVENT time: 999.386230, type: 2, fromlayer3 entity: 0

recved ack 16

timer set for:18

EVENT time: 1022.335754, type: 0, timerinterrupt entity: 0

Timer has gone off for 18

timer set for:18Sending 18 message

EVENT time: 1022.335754, type: 0, timerinterrupt entity: 0

Timer has gone off for 18

Sending 18 message TOLAYER3: packet being lost

Timer set for 18

EVENT time: 1024.463501, type: 2, fromlayer3 entity: 1

sending ack 18

TOLAYER3: packet being corrupted

EVENT time: 1031.637695, type: 2, fromlayer3 entity: 0

recved ack 18

EVENT time: 1045.177734, type: 1, fromlayer5 entity: 0

Sending 19 message

EVENT time: 1053.300171, type: 2, fromlayer3 entity: 1

Simulator terminated at time 1053.300171

after sending 20 msgs from layer5

Protocol: Selective Repeat

20 of packets sent from the Application Layer of Sender A

58 of packets sent from the Transport Layer of Sender A

39 packets received at the Transport layer of Receiver B

19 of packets received at the Application layer of Receiver B

Total time: 1053.300171 time units

Throughput = 0.01804 packets/time units