

Julian@JMP Submission % ./project2\_stop\_wait  
----- Network Simulator Version 1.1 -----

Enter the number of messages to simulate: 12  
Enter packet loss probability [enter 0.0 for no loss]:0.1  
Enter packet corruption probability [0.0 for no corruption]:0.3  
Enter average time between messages from sender's layer5 [ > 0.0]:1000  
Enter TRACE:2

EVENT time: 696.571045, type: 1, fromlayer5 entity: 1  
Sent from B: seq = 0, ack = 0, isACK = 0, checksum = 3232,  
aaaaaaaaaaaaaaaaaaaaa

EVENT time: 702.821777, type: 2, fromlayer3 entity: 0  
Received at A: seq = 0, ack = 0, isACK = 0, checksum = 3232,  
aaaaaaaaaaaaaaaaaaaaa  
Accpeted at A: seq = 0, ack = 0, isACK = 0, checksum = 3232,  
aaaaaaaaaaaaaaaaaaaaa

EVENT time: 707.863037, type: 2, fromlayer3 entity: 1  
Received at B: seq = 0, ack = 0, isACK = 1, checksum = fffe,  
Total successful ACKs: 1

EVENT time: 1116.811401, type: 1, fromlayer5 entity: 0  
Sent from A: seq = 0, ack = 0, isACK = 0, checksum = 2828,  
bbbbbbbbbbbbbbbbbb

EVENT time: 1126.514648, type: 2, fromlayer3 entity: 1  
Received at B: seq = 0, ack = 0, isACK = 0, checksum = 2828,  
bbbbbbbbbbbbbbbbbb  
Accpeted at B: seq = 0, ack = 0, isACK = 0, checksum = 2828,  
bbbbbbbbbbbbbbbbbb

EVENT time: 1131.134521, type: 2, fromlayer3 entity: 0  
Received at A: seq = 0, ack = 0, isACK = 1, checksum = fffe,  
Total successful ACKs: 2

EVENT time: 3011.951660, type: 1, fromlayer5 entity: 1  
Sent from B: seq = 1, ack = 0, isACK = 0, checksum = 1e1d,  
cccccccccccccccccc

EVENT time: 3018.905029, type: 2, fromlayer3 entity: 0  
Received at A: seq = 1, ack = 0, isACK = 0, checksum = 1e1d,  
cccccccccccccccccc  
Accpeted at A: seq = 1, ack = 0, isACK = 0, checksum = 1e1d,  
cccccccccccccccccc

EVENT time: 3019.918701, type: 2, fromlayer3 entity: 1  
Received at B: seq = 0, ack = 1, isACK = 1, checksum = fffd,  
Total successful ACKs: 3

EVENT time: 4817.867676, type: 1, fromlayer5 entity: 0  
Sent from A: seq = 1, ack = 0, isACK = 0, checksum = 1413,  
dddddddddddddddddd

EVENT time: 4824.742676, type: 2, fromlayer3 entity: 1  
Received at B: seq = 1, ack = 0, isACK = 0, checksum = 1413,  
dddddddddddddddddd  
Accpeted at B: seq = 1, ack = 0, isACK = 0, checksum = 1413,  
dddddddddddddddddd

TOLAYER3: packet being lost

EVENT time: 4841.867676, type: 0, timerinterrupt entity: 0  
Retransmitted from A

TOLAYER3: packet being corrupted

EVENT time: 4847.819336, type: 2, fromlayer3 entity: 1  
Received at B: seq = 1, ack = 999999, isACK = 0, checksum = 1413,  
dddddddddddddddddd  
Checksum error at B: seq = 1, ack = 999999, isACK = 0, checksum = 0,  
dddddddddddddddddd  
Sent NAK from B

TOLAYER3: packet being lost

EVENT time: 4865.867676, type: 0, timerinterrupt entity: 0  
Retransmitted from A

EVENT time: 4872.547852, type: 2, fromlayer3 entity: 1  
Received at B: seq = 1, ack = 0, isACK = 0, checksum = 1413,  
dddddddddddddddddd  
Received unexpected seqnum.  
Previous ACK probably didn't arrive.  
Resent ACK to A.

TOLAYER3: packet being corrupted

EVENT time: 4878.889648, type: 2, fromlayer3 entity: 0  
Received at A: seq = 0, ack = 1, isACK = 1, checksum = 568e, Z0@  
Checksum error at A: seq = 0, ack = 1, isACK = 1, checksum = 0, Z0@  
Sent NAK from A

TOLAYER3: packet being corrupted

EVENT time: 4881.294922, type: 2, fromlayer3 entity: 1  
Received at B: seq = 999999, ack = -1, isACK = 1, checksum = fa3f,  
0@?@?  
Checksum error at B: seq = 999999, ack = -1, isACK = 1, checksum = 0,  
0@?@?  
Sent NAK from B

EVENT time: 4882.654785, type: 2, fromlayer3 entity: 0

Received at A: seq = 2115365200, ack = -1, isACK = 1, checksum = fa3f, 00??@?

Received NAK

Retransmitting last sent packet from A

EVENT time: 4889.867676, type: 0, timerinterrupt entity: 0

Retransmitted from A

TOLAYER3: packet being lost

EVENT time: 4889.961914, type: 2, fromlayer3 entity: 1

Received at B: seq = 1, ack = 0, isACK = 0, checksum = 1413, ddddddddddddddddddd

Received unexpected seqnum.

Previous ACK probably didn't arrive.

Resent ACK to A.

EVENT time: 4898.904785, type: 2, fromlayer3 entity: 0

Received at A: seq = 0, ack = 1, isACK = 1, checksum = 568e, ?0@

A just received ACK from B for a packet originally retransmitted at time 4841.867676

Total successful ACKs: 4

EVENT time: 6266.137695, type: 1, fromlayer5 entity: 1

Sent from B: seq = 0, ack = 0, isACK = 0, checksum = a0a, eeeeeeeeeeeeeeeeeee

EVENT time: 6269.840332, type: 2, fromlayer3 entity: 0

Received at A: seq = 0, ack = 0, isACK = 0, checksum = a0a, eeeeeeeeeeeeeeeeeee

Accpeted at A: seq = 0, ack = 0, isACK = 0, checksum = a0a, eeeeeeeeeeeeeeeeeee

TOLAYER3: packet being lost

EVENT time: 6290.137695, type: 0, timerinterrupt entity: 1

Retransmitted from B

TOLAYER3: packet being corrupted

EVENT time: 6291.901367, type: 2, fromlayer3 entity: 0

Received at A: seq = 999999, ack = 0, isACK = 0, checksum = a0a, eeeeeeeeeeeeeeeeeee

Checksum error at A: seq = 999999, ack = 0, isACK = 0, checksum = 0, eeeeeeeeeeeeeeeeeee

Sent NAK from A

EVENT time: 6296.284180, type: 2, fromlayer3 entity: 1

Received at B: seq = 2115365200, ack = -1, isACK = 1, checksum = fa3f, 00??@?

Received NAK

Retransmitting last sent packet from B

TOLAYER3: packet being corrupted

EVENT time: 6302.174805, type: 2, fromlayer3 entity: 0  
Received at A: seq = 999999, ack = 0, isACK = 0, checksum = a0a,  
eeeeeeeeeeeeeeeeeeee  
Checksum error at A: seq = 999999, ack = 0, isACK = 0, checksum = 0,  
eeeeeeeeeeeeeeeeeeee  
Sent NAK from A  
TOLAYER3: packet being corrupted

EVENT time: 6306.208984, type: 2, fromlayer3 entity: 1  
Received at B: seq = 2115365200, ack = 999999, isACK = 1, checksum =  
fa3f, 0@?@?  
Checksum error at B: seq = 2115365200, ack = 999999, isACK = 1,  
checksum = 0, 0@?@?  
Sent NAK from B

EVENT time: 6312.083008, type: 2, fromlayer3 entity: 0  
Received at A: seq = 2115365200, ack = -1, isACK = 1, checksum = fa3f,  
0@?@?  
Received NAK  
Retransmitting last sent packet from A

EVENT time: 6314.137695, type: 0, timerinterrupt entity: 1  
Retransmitted from B  
TOLAYER3: packet being corrupted

EVENT time: 6315.903320, type: 2, fromlayer3 entity: 1  
Received at B: seq = 0, ack = 0, isACK = 1, checksum = fffe,  
B just received ACK from A for a packet originally retransmitted at  
time 6290.137695  
Total successful ACKs: 5

EVENT time: 6323.906738, type: 2, fromlayer3 entity: 0  
Received at A: seq = 0, ack = 0, isACK = 0, checksum = a0a,  
Zeeeeeeeeeeeeeeeeee  
Checksum error at A: seq = 0, ack = 0, isACK = 0, checksum = 0,  
Zeeeeeeeeeeeeeeeeee  
Sent NAK from A

EVENT time: 6330.444824, type: 2, fromlayer3 entity: 1  
Received at B: seq = 2115365200, ack = -1, isACK = 1, checksum = fa3f,  
0@?@?  
Received NAK  
Retransmitting last sent packet from B  
TOLAYER3: packet being corrupted

EVENT time: 6339.038086, type: 2, fromlayer3 entity: 0  
Received at A: seq = 0, ack = 0, isACK = 0, checksum = a0a,  
Zeeeeeeeeeeeeeeeeee

Checksum error at A: seq = 0, ack = 0, isACK = 0, checksum = 0,  
Zeeeeeeeeeeeeeeeeee

Sent NAK from A

TOLAYER3: packet being lost

EVENT time: 6464.082520, type: 1, fromlayer5 entity: 0

TOLAYER3: packet being corrupted

Sent from A: seq = 0, ack = 0, isACK = 0, checksum = 0,  
ffffffffffffffffffff

EVENT time: 6474.031250, type: 2, fromlayer3 entity: 1

Received at B: seq = 999999, ack = 0, isACK = 0, checksum = 0,  
ffffffffffffffffffff

Checksum error at B: seq = 999999, ack = 0, isACK = 0, checksum = 0,  
ffffffffffffffffffff

Sent NAK from B

EVENT time: 6478.206543, type: 2, fromlayer3 entity: 0

Received at A: seq = 2115365200, ack = -1, isACK = 1, checksum = fa3f,  
00?@?

Received NAK

Retransmitting last sent packet from A

EVENT time: 6486.082520, type: 2, fromlayer3 entity: 1

Received at B: seq = 0, ack = 0, isACK = 0, checksum = 0,  
ffffffffffffffffffff

Accpeted at B: seq = 0, ack = 0, isACK = 0, checksum = 0,  
ffffffffffffffffffff

EVENT time: 6487.852539, type: 2, fromlayer3 entity: 0

Received at A: seq = 0, ack = 0, isACK = 1, checksum = ff, ?

Total successful ACKs: 6

EVENT time: 6737.893066, type: 1, fromlayer5 entity: 1

Sent from B: seq = 1, ack = 0, isACK = 0, checksum = f5f4,  
gggggggggggggggggggg

EVENT time: 6746.535645, type: 2, fromlayer3 entity: 0

Received at A: seq = 1, ack = 0, isACK = 0, checksum = f5f4,  
gggggggggggggggggggg

Accpeted at A: seq = 1, ack = 0, isACK = 0, checksum = f5f4,  
gggggggggggggggggggg

EVENT time: 6750.459961, type: 2, fromlayer3 entity: 1

Received at B: seq = 0, ack = 1, isACK = 1, checksum = fffd,

Total successful ACKs: 7

EVENT time: 8027.504883, type: 1, fromlayer5 entity: 0

Sent from A: seq = 1, ack = 0, isACK = 0, checksum = ebea,  
hhhhhhhhhhhhhhhhhh

EVENT time: 8036.999512, type: 2, fromlayer3 entity: 1  
Received at B: seq = 1, ack = 0, isACK = 0, checksum = ebea,  
hhhhhhhhhhhhhhhhhhhh  
Accpeted at B: seq = 1, ack = 0, isACK = 0, checksum = ebea,  
hhhhhhhhhhhhhhhhhhhh

EVENT time: 8037.739746, type: 1, fromlayer5 entity: 0  
Currently waiting for ACK from packet sent to B. Ignore

EVENT time: 8038.224609, type: 2, fromlayer3 entity: 0  
Received at A: seq = 0, ack = 1, isACK = 1, checksum = fffd,  
Total successful ACKs: 8

EVENT time: 9781.181641, type: 1, fromlayer5 entity: 0  
Sent from A: seq = 0, ack = 0, isACK = 0, checksum = d7d7,  
jjjjjjjjjjjjjjjjjjjj

EVENT time: 9789.447266, type: 2, fromlayer3 entity: 1  
Received at B: seq = 0, ack = 0, isACK = 0, checksum = d7d7,  
jjjjjjjjjjjjjjjjjjjj  
Accpeted at B: seq = 0, ack = 0, isACK = 0, checksum = d7d7,  
jjjjjjjjjjjjjjjjjjjj

EVENT time: 9798.794922, type: 2, fromlayer3 entity: 0  
Received at A: seq = 0, ack = 0, isACK = 1, checksum = fffe,  
Total successful ACKs: 9

EVENT time: 11683.482422, type: 1, fromlayer5 entity: 1  
Sent from B: seq = 0, ack = 0, isACK = 0, checksum = cdc d,  
kkkkkkkkkkkkkkkkkkkk

EVENT time: 11690.180664, type: 2, fromlayer3 entity: 0  
Received at A: seq = 0, ack = 0, isACK = 0, checksum = cdc d,  
kkkkkkkkkkkkkkkkkkkk  
Accpeted at A: seq = 0, ack = 0, isACK = 0, checksum = cdc d,  
kkkkkkkkkkkkkkkkkkkk

EVENT time: 11693.669922, type: 2, fromlayer3 entity: 1  
Received at B: seq = 0, ack = 0, isACK = 1, checksum = fffe,  
Total successful ACKs: 10