

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

Enter the number of messages to simulate: 30

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]:10

Enter TRACE:2

EVENT time: 6.965711, type: 1, fromlayer5 entity: 1

B send 0

EVENT time: 11.168114, type: 1, fromlayer5 entity: 0

A send 0

EVENT time: 13.216425, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

A send ACK 0

EVENT time: 13.858004, type: 1, fromlayer5 entity: 0

A is currently waiting: 1

EVENT time: 18.965710, type: 0, timerinterrupt entity: 1

timer has benn interrupted, B will resend the packet

TOLAYER3: packet being corrupted

EVENT time: 20.696243, type: 2, fromlayer3 entity: 1

num4=1

B receive correct Data

B send ACK 0

EVENT time: 23.168114, type: 0, timerinterrupt entity: 0

A resend 0

TOLAYER3: packet being lost

EVENT time: 28.092333, type: 2, fromlayer3 entity: 0

A is ack 999999

A ACK ERROR

EVENT time: 30.399479, type: 2, fromlayer3 entity: 1

B is ack 0

B receive correct ACK

EVENT time: 32.864849, type: 1, fromlayer5 entity: 0

A is currently waiting: 1

EVENT time: 34.261948, type: 2, fromlayer3 entity: 0

A is ack 0

A receive correct ACK

EVENT time: 44.713158, type: 1, fromlayer5 entity: 1

TOLAYER3: packet being corrupted

B send 1

EVENT time: 52.861977, type: 2, fromlayer3 entity: 0

A is ack 999999

A ACK ERROR

EVENT time: 55.475266, type: 1, fromlayer5 entity: 1

B is currently waiting: 1

EVENT time: 56.713158, type: 0, timerinterrupt entity: 1

timer has benn interrupted, B will resend the packet

EVENT time: 57.737053, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

A send ACK 1

EVENT time: 66.204124, type: 2, fromlayer3 entity: 1

B is ack 1

B receive correct ACK

EVENT time: 66.479256, type: 1, fromlayer5 entity: 0

TOLAYER3: packet being corrupted

A send 1

EVENT time: 73.967354, type: 2, fromlayer3 entity: 1

num4=2

B receive correct Data

TOLAYER3: packet being corrupted

B send ACK 1

EVENT time: 78.349609, type: 1, fromlayer5 entity: 0

A is currently waiting: 1

EVENT time: 78.479256, type: 0, timerinterrupt entity: 0

A resend 1

EVENT time: 80.130928, type: 2, fromlayer3 entity: 1

TOLAYER3: packet being corrupted

B send ACK 1

EVENT time: 80.981476, type: 2, fromlayer3 entity: 0

A is ack 1

A receive correct ACK

EVENT time: 86.348297, type: 1, fromlayer5 entity: 1

TOLAYER3: packet being corrupted

B send 0

EVENT time: 87.274857, type: 2, fromlayer3 entity: 0

A is ack 1

A ACK ERROR

EVENT time: 88.595200, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

TOLAYER3: packet being lost

A send ACK 0

EVENT time: 98.348297, type: 0, timerinterrupt entity: 1

timer has benn interrupted, B will resend the packet

EVENT time: 102.289627, type: 1, fromlayer5 entity: 0

A send 0

EVENT time: 104.516853, type: 2, fromlayer3 entity: 1

num4=3

B receive correct Data

TOLAYER3: packet being corrupted

B send ACK 0

EVENT time: 105.296738, type: 2, fromlayer3 entity: 0

is data

A send ACK 0

EVENT time: 109.330887, type: 2, fromlayer3 entity: 0

A is ack 999999

A ACK ERROR

EVENT time: 110.348297, type: 0, timerinterrupt entity: 1

timer has benn interrupted, B will resend the packet

EVENT time: 111.170517, type: 2, fromlayer3 entity: 1

B is ack 0

B receive correct ACK

EVENT time: 113.923691, type: 1, fromlayer5 entity: 1

B send 1

EVENT time: 114.168625, type: 2, fromlayer3 entity: 0

is data

A send ACK 0

EVENT time: 114.289627, type: 0, timerinterrupt entity: 0

A resend 0

TOLAYER3: packet being corrupted

EVENT time: 118.538139, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

A send ACK 1

EVENT time: 120.395966, type: 1, fromlayer5 entity: 1

B is currently waiting: 1

EVENT time: 123.503410, type: 2, fromlayer3 entity: 1

B is ack 0

B ACK ERROR

EVENT time: 125.923691, type: 0, timerinterrupt entity: 1

timer has benn interrupted, B will resend the packet

EVENT time: 126.289627, type: 0, timerinterrupt entity: 0

A resend 0

EVENT time: 126.716713, type: 2, fromlayer3 entity: 1

TOLAYER3: packet being corrupted

B send ACK 0

EVENT time: 135.146881, type: 2, fromlayer3 entity: 0

is data

A send ACK 1

EVENT time: 136.418808, type: 2, fromlayer3 entity: 1

B is ack 1

B receive correct ACK

EVENT time: 138.289627, type: 0, timerinterrupt entity: 0

A resend 0

TOLAYER3: packet being corrupted

EVENT time: 140.281769, type: 1, fromlayer5 entity: 0

A is currently waiting: 1

EVENT time: 144.501617, type: 2, fromlayer3 entity: 1

TOLAYER3: packet being lost

B send ACK 0

EVENT time: 144.775833, type: 2, fromlayer3 entity: 0

A is ack 0

A receive correct ACK

EVENT time: 147.763245, type: 2, fromlayer3 entity: 1

B is ack 1

B ACK ERROR

EVENT time: 152.313660, type: 1, fromlayer5 entity: 0

TOLAYER3: packet being corrupted

A send 1

EVENT time: 155.417953, type: 2, fromlayer3 entity: 1

B send ACK 0

EVENT time: 156.546982, type: 2, fromlayer3 entity: 0

A is ack 0

A ACK ERROR

EVENT time: 164.313660, type: 0, timerinterrupt entity: 0

A resend 1

EVENT time: 164.476578, type: 2, fromlayer3 entity: 1

num4=4

B receive correct Data

B send ACK 1

EVENT time: 170.607544, type: 2, fromlayer3 entity: 1

TOLAYER3: packet being corrupted

B send ACK 1

EVENT time: 171.000137, type: 2, fromlayer3 entity: 0

A is ack 1

A receive correct ACK

EVENT time: 172.058929, type: 1, fromlayer5 entity: 1

B send 0

EVENT time: 180.475983, type: 2, fromlayer3 entity: 0

A is ack 1

A ACK ERROR

EVENT time: 183.965256, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

A send ACK 0

EVENT time: 184.058929, type: 0, timerinterrupt entity: 1

timer has benn interrupted, B will resend the packet

EVENT time: 184.722168, type: 1, fromlayer5 entity: 1

B is currently waiting: 1

EVENT time: 185.998016, type: 2, fromlayer3 entity: 0

is data

A send ACK 0

EVENT time: 186.511856, type: 1, fromlayer5 entity: 1

B is currently waiting: 1

EVENT time: 191.568649, type: 1, fromlayer5 entity: 0

A send 0

EVENT time: 191.869293, type: 2, fromlayer3 entity: 1

B is ack 0

B receive correct ACK

EVENT time: 198.382660, type: 1, fromlayer5 entity: 0

A is currently waiting: 1

EVENT time: 199.646225, type: 2, fromlayer3 entity: 1

B is ack 0

B ACK ERROR

EVENT time: 203.568649, type: 0, timerinterrupt entity: 0

A resend 0

TOLAYER3: packet being corrupted

EVENT time: 204.800751, type: 2, fromlayer3 entity: 1

num4=5

B receive correct Data

TOLAYER3: packet being corrupted

B send ACK 0

EVENT time: 206.307449, type: 2, fromlayer3 entity: 0

A is ack 0

A receive correct ACK

EVENT time: 207.787506, type: 2, fromlayer3 entity: 1

TOLAYER3: packet being corrupted

B send ACK 0

EVENT time: 212.387909, type: 1, fromlayer5 entity: 0

A send 1

EVENT time: 217.476486, type: 2, fromlayer3 entity: 0

A is ack 0

A ACK ERROR

EVENT time: 220.592606, type: 2, fromlayer3 entity: 1

num4=6

B receive correct Data

B send ACK 1

EVENT time: 224.387909, type: 0, timerinterrupt entity: 0

A resend 1

EVENT time: 229.109619, type: 1, fromlayer5 entity: 0

A is currently waiting: 1

EVENT time: 230.325134, type: 2, fromlayer3 entity: 0

A is ack 1

A receive correct ACK

EVENT time: 231.494370, type: 2, fromlayer3 entity: 1

B send ACK 1

EVENT time: 234.146103, type: 2, fromlayer3 entity: 0

A is ack 1

A ACK ERROR

EVENT time: 239.592133, type: 1, fromlayer5 entity: 1

TOLAYER3: packet being corrupted

B send 1

EVENT time: 249.067520, type: 1, fromlayer5 entity: 1

B is currently waiting: 1

EVENT time: 249.431030, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

A send ACK 1

EVENT time: 251.592133, type: 0, timerinterrupt entity: 1

timer has benn interrupted, B will resend the packet

TOLAYER3: packet being corrupted

EVENT time: 256.269989, type: 2, fromlayer3 entity: 0

is data

A send ACK 1

EVENT time: 256.348602, type: 2, fromlayer3 entity: 1

B is ack 1

B receive correct ACK

EVENT time: 256.915039, type: 1, fromlayer5 entity: 1

B send 0

EVENT time: 259.036804, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

A send ACK 0

EVENT time: 260.787720, type: 2, fromlayer3 entity: 1

B is ack 1

B ACK ERROR

EVENT time: 264.493652, type: 1, fromlayer5 entity: 1

B is currently waiting: 1

EVENT time: 267.823517, type: 2, fromlayer3 entity: 1

B is ack 0

B receive correct ACK

EVENT time: 268.018860, type: 1, fromlayer5 entity: 0

A send 0

EVENT time: 270.111572, type: 2, fromlayer3 entity: 1

num4=7

B receive correct Data

TOLAYER3: packet being corrupted

B send ACK 0

EVENT time: 276.851624, type: 2, fromlayer3 entity: 0

A is ack 999999

A ACK ERROR

EVENT time: 280.018860, type: 0, timerinterrupt entity: 0

A resend 0

TOLAYER3: packet being lost

EVENT time: 282.711182, type: 1, fromlayer5 entity: 1

TOLAYER3: packet being lost

B send 1

EVENT time: 292.018860, type: 0, timerinterrupt entity: 0

A resend 0

EVENT time: 294.711182, type: 0, timerinterrupt entity: 1

timer has been interrupted, B will resend the packet

EVENT time: 296.805817, type: 1, fromlayer5 entity: 0

A is currently waiting: 1

EVENT time: 298.277588, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

TOLAYER3: packet being corrupted

A send ACK 1

EVENT time: 301.466217, type: 2, fromlayer3 entity: 1

TOLAYER3: packet being corrupted

B send ACK 0

EVENT time: 304.018860, type: 0, timerinterrupt entity: 0

A resend 0

EVENT time: 306.711182, type: 0, timerinterrupt entity: 1

timer has been interrupted, B will resend the packet

EVENT time: 307.228394, type: 2, fromlayer3 entity: 0

A is ack 0

A receive correct ACK

EVENT time: 308.034790, type: 2, fromlayer3 entity: 1

B is ack 1

B receive correct ACK

EVENT time: 309.209106, type: 2, fromlayer3 entity: 0

is data

TOLAYER3: packet being lost

A send ACK 1

EVENT time: 310.535767, type: 1, fromlayer5 entity: 1

B send 0

EVENT time: 317.950073, type: 2, fromlayer3 entity: 1

B send ACK 0

EVENT time: 318.324341, type: 2, fromlayer3 entity: 0

is data

A receive correct Data

A send ACK 0

EVENT time: 320.637695, type: 2, fromlayer3 entity: 1

B is ack 0

B receive correct ACK

EVENT time: 326.328369, type: 2, fromlayer3 entity: 0

A is ack 0

A ACK ERROR

EVENT time: 330.281036, type: 1, fromlayer5 entity: 1

B send 1

EVENT time: 334.293579, type: 2, fromlayer3 entity: 0

Simulator terminated at time 334.293579

after sending 30 msgs from layer5