

----- 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]:0.1
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: 1870.573975, type: 1, fromlayer5 entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1940
TOLAYER3: packet being corrupted
=====

EVENT time: 1876.039062, type: 2, fromlayer3 entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1940
--> Compute checksum: 1933
--> Receive CORRUPTED packet
--> Send NAK
--> Send packet with: seqnum: 0; acknum: -2; checksum: -2
=====

EVENT time: 1878.220703, type: 2, fromlayer3 entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: -2; checksum: -2
--> Compute checksum: -2
--> Receive CORRUPTED packet
=====

EVENT time: 1885.573975, type: 0, timerinterrupt entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1940
=====

EVENT time: 1887.594482, type: 2, fromlayer3 entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1940
--> Compute checksum: 1940
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
TOLAYER3: packet being corrupted
=====

EVENT time: 1892.061768, type: 2, fromlayer3 entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 90
--> Receive CORRUPTED packet

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=====
EVENT time: 1900.573975,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1940
    TOLAYER3: packet being lost
=====

EVENT time: 1915.573975,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1940
=====

EVENT time: 1925.002441,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1940
--> Compute checksum: 1940
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
=====

EVENT time: 1930.573975,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1940
    TOLAYER3: packet being corrupted
=====

EVENT time: 1932.465332,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 0
--> Receive correct packet
=====

EVENT time: 1939.592651,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1940
--> Compute checksum: 1933
--> Receive CORRUPTED packet
--> Send NAK
--> Send packet with: seqnum: 0; acknum: -2; checksum: -2
    TOLAYER3: packet being corrupted
=====

EVENT time: 1941.958984,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: -2; checksum: -2
--> Compute checksum: 88

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--> Receive CORRUPTED packet
=====

EVENT time: 3512.483887,  type: 1, fromlayer5  entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 1; acknum: 0; checksum: 1961
    TOLAYER3: packet being lost
=====

EVENT time: 3527.483887,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 1; acknum: 0; checksum: 1961
=====

EVENT time: 3533.732910,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 1; acknum: 0; checksum: 1961
--> Compute checksum: 1961
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 1; checksum: 1
=====

EVENT time: 3535.213623,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 1; checksum: 1
--> Compute checksum: 1
--> Receive correct packet
=====

EVENT time: 3686.689209,  type: 1, fromlayer5  entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
=====

EVENT time: 3693.049805,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1980
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
    TOLAYER3: packet being lost
=====

EVENT time: 3701.689209,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980

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=====
EVENT time: 3702.747559,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1980
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
    TOLAYER3: packet being lost
=====

EVENT time: 3716.689209,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
=====

EVENT time: 3721.963379,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1980
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
    TOLAYER3: packet being lost
=====

EVENT time: 3731.689209,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
=====

EVENT time: 3740.470459,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1980
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
    TOLAYER3: packet being lost
=====

EVENT time: 3746.689209,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
    TOLAYER3: packet being lost
=====

EVENT time: 3761.689209,  type: 0, timerinterrupt  entity: 0

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[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
    TOLAYER3: packet being corrupted
=====

EVENT time: 3766.508545,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1971
--> Receive CORRUPTED packet
--> Send NAK
--> Send packet with: seqnum: 0; acknum: -2; checksum: -2
=====

EVENT time: 3770.170410,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: -2; checksum: -2
--> Compute checksum: -2
--> Receive CORRUPTED packet
=====

EVENT time: 3776.689209,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
    TOLAYER3: packet being corrupted
=====

EVENT time: 3785.600098,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1971
--> Receive CORRUPTED packet
--> Send NAK
--> Send packet with: seqnum: 0; acknum: -2; checksum: -2
    TOLAYER3: packet being corrupted
=====

EVENT time: 3791.217773,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: -2; checksum: -2
--> Compute checksum: 88
--> Receive CORRUPTED packet
=====

EVENT time: 3791.689209,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
    TOLAYER3: packet being corrupted
=====

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EVENT time: 3793.720947,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1971
--> Receive CORRUPTED packet
--> Send NAK
--> Send packet with: seqnum: 0; acknum: -2; checksum: -2
      TOLAYER3: packet being corrupted
=====

EVENT time: 3801.463867,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: -2; checksum: -2
--> Compute checksum: 88
--> Receive CORRUPTED packet
=====

EVENT time: 3806.689209,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
=====

EVENT time: 3813.380615,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1980
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
      TOLAYER3: packet being corrupted
=====

EVENT time: 3818.853271,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 90
--> Receive CORRUPTED packet
=====

EVENT time: 3821.689209,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 1980
=====

EVENT time: 3827.076172,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 1980
--> Compute checksum: 1980
--> Receive correct packet

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--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
=====

EVENT time: 3828.780518,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 0
--> Receive correct packet
=====

EVENT time: 4761.793945,  type: 1, fromlayer5  entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 1; acknum: 0; checksum: 2001
=====

EVENT time: 4769.751953,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 1; acknum: 0; checksum: 2001
--> Compute checksum: 2001
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 1; checksum: 1
=====

EVENT time: 4774.144531,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 1; checksum: 1
--> Compute checksum: 1
--> Receive correct packet
=====

EVENT time: 4878.173340,  type: 1, fromlayer5  entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2020
=====

EVENT time: 4888.021484,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2020
--> Compute checksum: 2020
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
=====

EVENT time: 4890.766602,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 0

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--> Receive correct packet
=====

EVENT time: 5482.227539,  type: 1, fromlayer5  entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 1; acknum: 0; checksum: 2041
=====

EVENT time: 5488.843262,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 1; acknum: 0; checksum: 2041
--> Compute checksum: 2041
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 1; checksum: 1
=====

EVENT time: 5492.150391,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 1; checksum: 1
--> Compute checksum: 1
--> Receive correct packet
=====

EVENT time: 6990.478516,  type: 1, fromlayer5  entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2060
      TOLAYER3: packet being corrupted
=====

EVENT time: 6991.992676,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2060
--> Compute checksum: 2047
--> Receive CORRUPTED packet
--> Send NAK
--> Send packet with: seqnum: 0; acknum: -2; checksum: -2
      TOLAYER3: packet being corrupted
=====

EVENT time: 6993.090820,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: -2; checksum: -2
--> Compute checksum: 88
--> Receive CORRUPTED packet
=====

EVENT time: 7005.478516,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout

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--> Send packet with: seqnum: 0; acknum: 0; checksum: 2060
=====

EVENT time: 7007.627930,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2060
--> Compute checksum: 2060
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
    TOLAYER3: packet being corrupted
=====

EVENT time: 7009.211914,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 90
--> Receive CORRUPTED packet
=====

EVENT time: 7020.478516,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2060
=====

EVENT time: 7025.725586,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2060
--> Compute checksum: 2060
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
    TOLAYER3: packet being corrupted
=====

EVENT time: 7034.669434,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 90
--> Receive CORRUPTED packet
=====

EVENT time: 7035.478516,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2060
    TOLAYER3: packet being corrupted
=====

EVENT time: 7044.800781,  type: 2, fromlayer3  entity: 1
[B] -----

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```
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2060
--> Compute checksum: 2047
--> Receive CORRUPTED packet
--> Send NAK
--> Send packet with: seqnum: 0; acknum: -2; checksum: -2
    TOLAYER3: packet being corrupted
=====
```

```
EVENT time: 7047.797363,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: -2; checksum: -2
--> Compute checksum: 88
--> Receive CORRUPTED packet
=====
```

```
EVENT time: 7050.478516,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2060
    TOLAYER3: packet being corrupted
=====
```

```
EVENT time: 7051.627441,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 999999; checksum: 2060
--> Compute checksum: 1002059
--> Receive CORRUPTED packet
--> Send NAK
--> Send packet with: seqnum: 0; acknum: -2; checksum: -2
=====
```

```
EVENT time: 7059.195801,  type: 2, fromlayer3  entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: -2; checksum: -2
--> Compute checksum: -2
--> Receive CORRUPTED packet
=====
```

```
EVENT time: 7065.478516,  type: 0, timerinterrupt  entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2060
=====
```

```
EVENT time: 7069.652344,  type: 2, fromlayer3  entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2060
--> Compute checksum: 2060
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
=====
```

EVENT time: 7077.254395, type: 2, fromlayer3 entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 0
--> Receive correct packet
=====

EVENT time: 8159.206055, type: 1, fromlayer5 entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 1; acknum: 0; checksum: 2081
=====

EVENT time: 8164.106445, type: 2, fromlayer3 entity: 1
[B] -----
--> Receive packet with: seqnum: 1; acknum: 0; checksum: 2081
--> Compute checksum: 2081
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 1; checksum: 1
=====

EVENT time: 8173.845215, type: 2, fromlayer3 entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 1; checksum: 1
--> Compute checksum: 1
--> Receive correct packet
=====

EVENT time: 9330.692383, type: 1, fromlayer5 entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2100
=====

EVENT time: 9336.634766, type: 2, fromlayer3 entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2100
--> Compute checksum: 2100
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
TOLAYER3: packet being lost
=====

EVENT time: 9345.692383, type: 0, timerinterrupt entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2100
=====

EVENT time: 9352.523438, type: 2, fromlayer3 entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2100
--> Compute checksum: 2100
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
=====

EVENT time: 9360.692383, type: 0, timerinterrupt entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2100
=====

EVENT time: 9361.723633, type: 2, fromlayer3 entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 0
--> Receive correct packet
=====

EVENT time: 9370.041992, type: 2, fromlayer3 entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2100
--> Compute checksum: 2100
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0
=====

EVENT time: 9373.303711, type: 2, fromlayer3 entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 0
--> Receive correct packet
Warning: unable to cancel your timer. It wasn't running.
=====

EVENT time: 9388.303711, type: 0, timerinterrupt entity: 0
[A] -----
--> Timeout
--> Send packet with: seqnum: 0; acknum: 0; checksum: 2100
=====

EVENT time: 9395.104492, type: 2, fromlayer3 entity: 1
[B] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 2100
--> Compute checksum: 2100
--> Receive correct packet
--> Send ACK
--> Send packet with: seqnum: 0; acknum: 0; checksum: 0

```
=====
EVENT time: 9397.592773, type: 2, fromlayer3 entity: 0
[A] -----
--> Receive packet with: seqnum: 0; acknum: 0; checksum: 0
--> Compute checksum: 0
--> Receive correct packet
=====

EVENT time: 9846.638672, type: 1, fromlayer5 entity: 0
[A] -----
--> Put packet received from Layer 5 in buffer.
--> Send packet with: seqnum: 1; acknum: 0; checksum: 2121
    TOLAYER3: packet being corrupted
=====

EVENT time: 9850.653320, type: 2, fromlayer3 entity: 1
  Simulator terminated at time 9850.653320
  after sending 10 msgs from layer5
base: 1; nextseg: 0; receiver: 9
```