

CASE 1 - No loss and no error scenario

Enter the number of messages to simulate: 10

Enter packet loss probability [enter 0.0 for no loss]: 0

Enter packet corruption probability [enter 0.0 for no corruption]: 0

Enter average time between messages from sender's layer5 [> 0.0]: 5

Enter TRACE: 0

A_init: initialization for sender A.

B_init: initialization for receiver B.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.
B_input: packet received from layer3.
B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.
A_output: message received from layer5.
A_output: another message in transit. dropping this message.
A_output: message received from layer5.
A_output: another message in transit. dropping this message.
A_input: packet received from layer3.
A_input: packet acknum matched. ACK accepted.
A_output: message received from layer5.
A_output: packet passed to layer3.
B_input: packet received from layer3.
B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.
A_output: message received from layer5.
A_output: another message in transit. dropping this message.
A_input: packet received from layer3.
A_input: packet acknum matched. ACK accepted.

Simulator terminated at time 47.591816
after sending 10 msgs from layer5

CASE 2 - 30 percent loss and no error scenario

Enter the number of messages to simulate: 50
Enter packet loss probability [enter 0.0 for no loss]:0.3
Enter packet corruption probability [0.0 for no corruption]:0
Enter average time between messages from sender's layer5 [> 0.0]:10
Enter TRACE:0

A_init: initialization for sender A.

B_init: initialization for receiver B.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.
A_timerinterrupt: A's timer went off. retransmitting packet.
A_timerinterrupt: packet passed to layer3.
A_output: message received from layer5.
A_output: another message in transit. dropping this message.
A_timerinterrupt: A's timer went off. retransmitting packet.
A_timerinterrupt: packet passed to layer3.
A_timerinterrupt: A's timer went off. retransmitting packet.
A_timerinterrupt: packet passed to layer3.
B_input: packet received from layer3.
B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.
A_input: packet received from layer3.
A_input: packet acknum matched. ACK accepted.

Simulator terminated at time 507.020447
after sending 50 msgs from layer5

CASE 3 - No loss and 30 percent corruption scenario

Enter the number of messages to simulate: 10
Enter packet loss probability [enter 0.0 for no loss]:0
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:0

A_init: initialization for sender A.
B_init: initialization for receiver B.
A_output: message received from layer5.
A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet corrupted. NACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum mismatched. ACK dropped.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum mismatched. ACK dropped.

Simulator terminated at time 117.520515

after sending 10 msgs from layer5

CASE 4 - 30 percent loss and 30 percent corruption scenario

Enter the number of messages to simulate: 10

Enter packet loss probability [enter 0.0 for no loss]:0.3

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:0

A_init: initialization for sender A.

B_init: initialization for receiver B.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.

A_output: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

A_output: message received from layer5.
A_output: packet passed to layer3.
B_input: packet received from layer3.
B_input: packet corrupted. NACK passed to layer3.
A_input: packet received from layer3.
A_input: packet acknum mismatched. ACK dropped.
A_timerinterrupt: A's timer went off. retransmitting packet.
A_timerinterrupt: packet passed to layer3.
A_output: message received from layer5.
A_output: another message in transit. dropping this message.
A_output: message received from layer5.
A_output: another message in transit. dropping this message.
B_input: packet received from layer3.
B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.
A_output: message received from layer5.
A_output: another message in transit. dropping this message.
A_input: packet received from layer3.
A_input: packet acknum matched. ACK accepted.
A_output: message received from layer5.
A_output: packet passed to layer3.
A_output: message received from layer5.
A_output: another message in transit. dropping this message.
A_timerinterrupt: A's timer went off. retransmitting packet.
A_timerinterrupt: packet passed to layer3.
B_input: packet received from layer3.
B_input: packet corrupted. NACK passed to layer3.
A_input: packet received from layer3.
A_input: packet acknum mismatched. ACK dropped.
A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum matched. message passed to layer5. ACK passed to layer3.

A_output: message received from layer5.

A_output: another message in transit. dropping this message.

A_input: packet received from layer3.

A_input: packet corrupted. ACK dropped.

A_timerinterrupt: A's timer went off. retransmitting packet.

A_timerinterrupt: packet passed to layer3.

B_input: packet received from layer3.

B_input: packet seqnum mismatched. NACK passed to layer3.

A_input: packet received from layer3.

A_input: packet acknum matched. ACK accepted.

Simulator terminated at time 120.300537

after sending 10 msgs from layer5