```
EVENT time: 1870.573975,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:     aaaaaaaaaaaaaaaaaaaaý
- TIMER STARTED
- Sending Message:                    aaaaaaaaaaaaaaaaaaaa    ack# = 0    seq# = 0
         TOLAYER3: packet being corrupted

EVENT time: 1876.039062,  type: 2, fromlayer3  entity: 1
- B side received packet:             Zaaaaaaaaaaaaaaaaaaa    ack# = 0    seq# = 0
- B side received corrupted packet. Ignoring...

EVENT time: 1950.573975,  type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:            aaaaaaaaaaaaaaaaaaaa    ack# = 0    seq# = 0

EVENT time: 1952.755615,  type: 2, fromlayer3  entity: 1
- B side received packet:             aaaaaaaaaaaaaaaaaaaa    ack# = 0    seq# = 0
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                    ACK                    ack# = 0    seq# = 0

EVENT time: 1954.776123,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:    ACK                    ack# = 0    seq# = 0
- TIMER STOPPED
- A Side received correct packet




EVENT time: 3512.483887,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:     bbbbbbbbbbbbbbbbbbbbý
- TIMER STARTED
- Sending Message:                    bbbbbbbbbbbbbbbbbbbb    ack# = 1    seq# = 1

EVENT time: 3513.783203,  type: 2, fromlayer3  entity: 1
- B side received packet:             bbbbbbbbbbbbbbbbbbbb    ack# = 1    seq# = 1
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                    ACK                    ack# = 1    seq# = 1
         TOLAYER3: packet being lost.

EVENT time: 3592.483887,  type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:            bbbbbbbbbbbbbbbbbbbb    ack# = 1    seq# = 1
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EVENT time: 3601.912354,  type: 2, fromlayer3  entity: 1
- B side received packet:                      bbbbbbbbbbbbbbbbbbbb    ack# = 1    seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK:                       ACK                 ack# = 1    seq# = 1


EVENT time: 3609.375244,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:      ACK                 ack# = 1    seq# = 1
- TIMER STOPPED
- A Side received correct packet




EVENT time: 5344.603516,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:    cccccccccccccccccccý
- TIMER STARTED
- Sending Message:                       cccccccccccccccccccc    ack# = 0    seq# = 0

EVENT time: 5347.333984,  type: 2, fromlayer3  entity: 1
- B side received packet:                cccccccccccccccccccc    ack# = 0    seq# = 0
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                       ACK                 ack# = 0    seq# = 0
         TOLAYER3: packet being corrupted

EVENT time: 5349.700195,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:      ZCK                 ack# = 0    seq# = 0
- A Side received corrupted packet from
  B Side - resending:                    cccccccccccccccccccc    ack# = 0    seq# = 0
         TOLAYER3: packet being lost.

EVENT time: 5424.603516,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:           cccccccccccccccccccc    ack# = 0    seq# = 0
         TOLAYER3: packet being lost.

EVENT time: 5504.603516,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:           cccccccccccccccccccc    ack# = 0    seq# = 0


EVENT time: 5510.852539,  type: 2, fromlayer3  entity: 1
- B side received packet:                cccccccccccccccccccc    ack# = 0    seq# = 0
- B side expected seq 1, got seq 0
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- B side sent ACK:                          ACK                  ack# = 0    seq# = 0


EVENT time: 5512.333008,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:      ACK                  ack# = 0    seq# = 0
- TIMER STOPPED
- A Side received correct packet




EVENT time: 6462.303711,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:     dddddddddddddddddddddý
- TIMER STARTED
- Sending Message:                          dddddddddddddddddddd    ack# = 1    seq# = 1

EVENT time: 6468.664551,  type: 2, fromlayer3  entity: 1
- B side received packet:                   dddddddddddddddddddd    ack# = 1    seq# = 1
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                          ACK                  ack# = 1    seq# = 1
          TOLAYER3: packet being lost.

EVENT time: 6542.303711,  type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:           dddddddddddddddddddd    ack# = 1    seq# = 1

EVENT time: 6543.362305,  type: 2, fromlayer3  entity: 1
- B side received packet:                   dddddddddddddddddddd    ack# = 1    seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK:                          ACK                  ack# = 1    seq# = 1
          TOLAYER3: packet being lost.

EVENT time: 6622.303711,  type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:           dddddddddddddddddddd    ack# = 1    seq# = 1

EVENT time: 6627.577637,  type: 2, fromlayer3  entity: 1
- B side received packet:                   dddddddddddddddddddd    ack# = 1    seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK:                          ACK                  ack# = 1    seq# = 1
          TOLAYER3: packet being lost.

EVENT time: 6702.303711,  type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
```

```
  Retransmitting & Restarting Timer:                dddddddddddddddddddd    ack# = 1    seq# = 1

EVENT time: 6711.084961,  type: 2, fromlayer3  entity: 1
- B side received packet:                 dddddddddddddddddddd    ack# = 1    seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK:                        ACK                 ack# = 1    seq# = 1
          TOLAYER3: packet being lost.

EVENT time: 6782.303711,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:                dddddddddddddddddddd    ack# = 1    seq# = 1
          TOLAYER3: packet being lost.

EVENT time: 6862.303711,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:                dddddddddddddddddddd    ack# = 1    seq# = 1
          TOLAYER3: packet being corrupted

EVENT time: 6867.123047,  type: 2, fromlayer3  entity: 1
- B side received packet:                 Zddddddddddddddddddd    ack# = 1    seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 6942.303711,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:                dddddddddddddddddddd    ack# = 1    seq# = 1

EVENT time: 6945.965332,  type: 2, fromlayer3  entity: 1
- B side received packet:                 dddddddddddddddddddd    ack# = 1    seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK:                        ACK                 ack# = 1    seq# = 1
          TOLAYER3: packet being corrupted

EVENT time: 6954.875977,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:     ZCK                 ack# = 1    seq# = 1
- A Side received corrupted packet from
  B Side - resending:                     dddddddddddddddddddd    ack# = 1    seq# = 1
          TOLAYER3: packet being corrupted

EVENT time: 6960.493652,  type: 2, fromlayer3  entity: 1
- B side received packet:                 Zddddddddddddddddddd    ack# = 1    seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 7022.303711,  type: 0, timerinterrupt    entity: 0
```

```
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:            dddddddddddddddddddd    ack# = 1    seq# = 1
          TOLAYER3: packet being corrupted


EVENT time: 7024.335449,  type: 2, fromlayer3  entity: 1
- B side received packet:                   Zdddddddddddddddddddd    ack# = 1    seq# = 1
- B side received corrupted packet. Ignoring...


EVENT time: 7102.303711,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:            dddddddddddddddddddd    ack# = 1    seq# = 1
          TOLAYER3: packet being corrupted


EVENT time: 7110.046875,  type: 2, fromlayer3  entity: 1
- B side received packet:                   Zdddddddddddddddddddd    ack# = 1    seq# = 1
- B side received corrupted packet. Ignoring...


EVENT time: 7182.303711,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:            dddddddddddddddddddd    ack# = 1    seq# = 1


EVENT time: 7188.995117,  type: 2, fromlayer3  entity: 1
- B side received packet:                   dddddddddddddddddddd    ack# = 1    seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK:                   ACK                 ack# = 1    seq# = 1
          TOLAYER3: packet being corrupted


EVENT time: 7194.467773,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:     ZCK                 ack# = 1    seq# = 1
- A Side received corrupted packet from
  B Side - resending:                   dddddddddddddddddddd    ack# = 1    seq# = 1


EVENT time: 7199.854492,  type: 2, fromlayer3  entity: 1
- B side received packet:                   dddddddddddddddddddd    ack# = 1    seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK:                   ACK                 ack# = 1    seq# = 1


EVENT time: 7201.558594,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:     ACK                 ack# = 1    seq# = 1
- TIMER STOPPED
- A Side received correct packet
```

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EVENT time: 7537.408203,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:    eeeeeeeeeeeeeeeeeeeeý
- TIMER STARTED
- Sending Message:                         eeeeeeeeeeeeeeeeeeee    ack# = 0    seq# = 0

EVENT time: 7545.366211,  type: 2, fromlayer3  entity: 1
- B side received packet:                  eeeeeeeeeeeeeeeeeeee    ack# = 0    seq# = 0
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                  ACK                    ack# = 0    seq# = 0

EVENT time: 7549.758789,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:      ACK                    ack# = 0    seq# = 0
- TIMER STOPPED
- A Side received correct packet




EVENT time: 7653.787109,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:    ffffffffffffffffffffý
- TIMER STARTED
- Sending Message:                         ffffffffffffffffffff    ack# = 1    seq# = 1

EVENT time: 7663.635254,  type: 2, fromlayer3  entity: 1
- B side received packet:                  ffffffffffffffffffff    ack# = 1    seq# = 1
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                  ACK                    ack# = 1    seq# = 1

EVENT time: 7666.380371,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:      ACK                    ack# = 1    seq# = 1
- TIMER STOPPED
- A Side received correct packet




EVENT time: 8257.841797,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:    ggggggggggggggggggggý
- TIMER STARTED
- Sending Message:                         gggggggggggggggggggg    ack# = 0    seq# = 0

EVENT time: 8264.457031,  type: 2, fromlayer3  entity: 1
```

```
- B side received packet:                   ggggggggggggggggggggg    ack# = 0     seq# = 0
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                  ACK                  ack# = 0    seq# = 0


EVENT time: 8267.763672,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:       ACK                  ack# = 0    seq# = 0
- TIMER STOPPED
- A Side received correct packet




EVENT time: 9766.092773,  type: 1, fromlayer5   entity: 0
- A side received message from upper layer:      hhhhhhhhhhhhhhhhhhhhhý
- TIMER STARTED
- Sending Message:                    hhhhhhhhhhhhhhhhhhhhh    ack# = 1     seq# = 1
         TOLAYER3: packet being corrupted

EVENT time: 9767.606445,  type: 2, fromlayer3  entity: 1
- B side received packet:                Zhhhhhhhhhhhhhhhhhhhh    ack# = 1     seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 9846.092773,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:           hhhhhhhhhhhhhhhhhhhhh    ack# = 1     seq# = 1
         TOLAYER3: packet being corrupted

EVENT time: 9847.190430,  type: 2, fromlayer3  entity: 1
- B side received packet:                Zhhhhhhhhhhhhhhhhhhhh    ack# = 1     seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 9926.092773,  type: 0, timerinterrupt    entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:           hhhhhhhhhhhhhhhhhhhhh    ack# = 1     seq# = 1

EVENT time: 9928.242188,  type: 2, fromlayer3  entity: 1
- B side received packet:                hhhhhhhhhhhhhhhhhhhhh    ack# = 1     seq# = 1
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                  ACK                  ack# = 1    seq# = 1
         TOLAYER3: packet being corrupted

EVENT time: 9929.826172,  type: 2, fromlayer3  entity: 0
```

EVENT time: 9935.073242, type: 2, fromlayer3 entity: 1
- B side received packet: hhhhhhhhhhhhhhhhhhhh   ack# = 1   seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK: ACK   ack# = 1   seq# = 1
          TOLAYER3: packet being corrupted

EVENT time: 9944.016602, type: 2, fromlayer3 entity: 0
- A Side Received from Lower Layer: ZCK   ack# = 1   seq# = 1
- A Side received corrupted packet from
  B Side - resending: hhhhhhhhhhhhhhhhhhhh   ack# = 1   seq# = 1
          TOLAYER3: packet being corrupted

EVENT time: 9953.338867, type: 2, fromlayer3 entity: 1
- B side received packet: Zhhhhhhhhhhhhhhhhhhh   ack# = 1   seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 10006.092773, type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer: hhhhhhhhhhhhhhhhhhhh   ack# = 1   seq# = 1
          TOLAYER3: packet being corrupted

EVENT time: 10009.088867, type: 2, fromlayer3 entity: 1
- B side received packet: Zhhhhhhhhhhhhhhhhhhh   ack# = 1   seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 10086.092773, type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer: hhhhhhhhhhhhhhhhhhhh   ack# = 1   seq# = 1
          TOLAYER3: packet being corrupted

EVENT time: 10087.242188, type: 2, fromlayer3 entity: 1
- B side received packet: hhhhhhhhhhhhhhhhhhhh   ack# = 999999   seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 10166.092773, type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer: hhhhhhhhhhhhhhhhhhhh   ack# = 1   seq# = 1

EVENT time: 10173.661133, type: 2, fromlayer3 entity: 1

```
- B side received packet:                      hhhhhhhhhhhhhhhhhhhh    ack# = 1    seq# = 1
- B side expected seq 0, got seq 1
- B side sent ACK:                    ACK                ack# = 1    seq# = 1

EVENT time: 10177.834961,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:     ACK                ack# = 1    seq# = 1
- TIMER STOPPED
- A Side received correct packet




EVENT time: 10934.820312,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:    iiiiiiiiiiiiiiiiiiiý
- TIMER STARTED
- Sending Message:                    iiiiiiiiiiiiiiiiiiii    ack# = 0    seq# = 0

EVENT time: 10939.546875,  type: 2, fromlayer3  entity: 1
- B side received packet:                      iiiiiiiiiiiiiiiiiiii    ack# = 0    seq# = 0
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                    ACK                ack# = 0    seq# = 0

EVENT time: 10944.447266,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:     ACK                ack# = 0    seq# = 0
- TIMER STOPPED
- A Side received correct packet




EVENT time: 11976.557617,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:    jjjjjjjjjjjjjjjjjjjý
- TIMER STARTED
- Sending Message:                    jjjjjjjjjjjjjjjjjjjj    ack# = 1    seq# = 1
        TOLAYER3: packet being corrupted

EVENT time: 11981.497070,  type: 2, fromlayer3  entity: 1
- B side received packet:                      Zjjjjjjjjjjjjjjjjjjj    ack# = 1    seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 12056.557617,  type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:          jjjjjjjjjjjjjjjjjjjj    ack# = 1    seq# = 1
        TOLAYER3: packet being corrupted
```

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EVENT time: 12063.326172,  type: 2, fromlayer3  entity: 1
- B side received packet:                    Zjjjjjjjjjjjjjjjjjjjj   ack# = 1    seq# = 1
- B side received corrupted packet. Ignoring...

EVENT time: 12136.557617,  type: 0, timerinterrupt   entity: 0
- TIMER INTERRUPT (Packet Lost) -
  Retransmitting & Restarting Timer:          jjjjjjjjjjjjjjjjjjjjj   ack# = 1    seq# = 1

EVENT time: 12140.275391,  type: 2, fromlayer3  entity: 1
- B side received packet:                    jjjjjjjjjjjjjjjjjjjjj   ack# = 1    seq# = 1
- B side received correct packet
- Sending message to layer 5...
- B side sent ACK:                    ACK                ack# = 1    seq# = 1

EVENT time: 12145.147461,  type: 2, fromlayer3  entity: 0
- A Side Received from Lower Layer:      ACK                ack# = 1    seq# = 1
- TIMER STOPPED
- A Side received correct packet




EVENT time: 12727.228516,  type: 1, fromlayer5  entity: 0
- A side received message from upper layer:    kkkkkkkkkkkkkkkkkkkký
- TIMER STARTED
- Sending Message:                    kkkkkkkkkkkkkkkkkkkk    ack# = 0    seq# = 0
         TOLAYER3: packet being corrupted

EVENT time: 12732.938477,  type: 2, fromlayer3  entity: 1
```