

## Selective-Repeat

Note that 1) "Ack 10" acknowledges packet 9.  
2) The output from the console is incomplete.

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

Enter the number of messages to simulate: 50  
Enter packet loss probability [enter 0.0 for no loss]:0.2  
Enter packet corruption probability [0.0 for no corruption]:0.2  
Enter average time between messages from sender's layer5 [ > 0.0]:10  
Enter TRACE:2

.....

EVENT time: 170.150772, type: 1, fromlayer5 entity: 0

EVENT time: 170.859680, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 171.618011, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 171.969910, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 172.395309, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 174.288010, type: 0, timerinterrupt entity: 0

EVENT time: 175.397629, type: 2, fromlayer3 entity: 1  
Ack 10

EVENT time: 175.473480, type: 2, fromlayer3 entity: 0

EVENT time: 177.037003, type: 0, timerinterrupt entity: 0

EVENT time: 177.179428, type: 1, fromlayer5 entity: 0

EVENT time: 179.655655, type: 2, fromlayer3 entity: 0

EVENT time: 180.072922, type: 1, fromlayer5 entity: 0

EVENT time: 181.969910, type: 0, timerinterrupt entity: 0

EVENT time: 184.732803, type: 2, fromlayer3 entity: 1  
Duplicate Ack 7

EVENT time: 187.481659, type: 2, fromlayer3 entity: 0

EVENT time: 190.252121, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 191.969910, type: 0, timerinterrupt entity: 0

EVENT time: 193.231003, type: 2, fromlayer3 entity: 1  
Ack 9

already buffered

EVENT time: 193.479065, type: 1, fromlayer5 entity: 0

EVENT time: 196.055847, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Ack 8

EVENT time: 196.728882, type: 1, fromlayer5 entity: 0

EVENT time: 199.176178, type: 2, fromlayer3 entity: 0

EVENT time: 199.905670, type: 1, fromlayer5 entity: 0

EVENT time: 200.042450, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 201.465164, type: 2, fromlayer3 entity: 1  
Duplicate Ack 10

EVENT time: 201.969910, type: 0, timerinterrupt entity: 0

EVENT time: 205.366943, type: 2, fromlayer3 entity: 0  
Wrong checksum for acknowledgement from B.

EVENT time: 209.907578, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being lost  
Ack 12

EVENT time: 211.969910, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 213.823517, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being lost  
Ack 13

EVENT time: 214.403580, type: 2, fromlayer3 entity: 0

EVENT time: 217.292404, type: 1, fromlayer5 entity: 0

EVENT time: 219.066360, type: 2, fromlayer3 entity: 1  
Duplicate Ack 9

EVENT time: 219.265182, type: 1, fromlayer5 entity: 0

EVENT time: 221.092590, type: 1, fromlayer5 entity: 0

EVENT time: 221.606857, type: 2, fromlayer3 entity: 0

EVENT time: 221.969910, type: 0, timerinterrupt entity: 0

EVENT time: 227.462280, type: 2, fromlayer3 entity: 1  
Duplicate Ack 8

EVENT time: 230.580505, type: 2, fromlayer3 entity: 0  
Window end at sender side: 18

EVENT time: 179.362595, type: 0, timerinterrupt entity: 0

EVENT time: 182.395309, type: 0, timerinterrupt entity: 0

EVENT time: 187.037003, type: 0, timerinterrupt entity: 0

EVENT time: 189.362595, type: 0, timerinterrupt entity: 0

EVENT time: 192.395309, type: 0, timerinterrupt entity: 0

EVENT time: 197.037003, type: 0, timerinterrupt entity: 0

EVENT time: 199.362595, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 202.395309, type: 0, timerinterrupt entity: 0

EVENT time: 203.479065, type: 0, timerinterrupt entity: 0

EVENT time: 206.728882, type: 0, timerinterrupt entity: 0

EVENT time: 207.037003, type: 0, timerinterrupt entity: 0

EVENT time: 209.362595, type: 0, timerinterrupt entity: 0

EVENT time: 212.395309, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 213.479065, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 216.728882, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 217.037003, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 219.362595, type: 0, timerinterrupt entity: 0

EVENT time: 222.395309, type: 0, timerinterrupt entity: 0

EVENT time: 223.479065, type: 0, timerinterrupt entity: 0

EVENT time: 226.728882, type: 0, timerinterrupt entity: 0

EVENT time: 227.037003, type: 0, timerinterrupt entity: 0

EVENT time: 229.362595, type: 0, timerinterrupt entity: 0

EVENT time: 231.544556, type: 1, fromlayer5 entity: 0

EVENT time: 232.395309, type: 0, timerinterrupt entity: 0

EVENT time: 233.479065, type: 0, timerinterrupt entity: 0

EVENT time: 234.144073, type: 2, fromlayer3 entity: 1

Ack 11

EVENT time: 236.728882, type: 0, timerinterrupt entity: 0

EVENT time: 237.037003, type: 0, timerinterrupt entity: 0

EVENT time: 238.128464, type: 2, fromlayer3 entity: 1

TOLAYER3: packet being lost

Duplicate Ack 12

EVENT time: 239.362595, type: 0, timerinterrupt entity: 0

EVENT time: 240.580505, type: 0, timerinterrupt entity: 0

EVENT time: 240.580505, type: 0, timerinterrupt entity: 0

EVENT time: 240.580505, type: 0, timerinterrupt entity: 0

TOLAYER3: packet being lost

EVENT time: 241.776215, type: 2, fromlayer3 entity: 0

Window end at sender side: 19

EVENT time: 209.905670, type: 0, timerinterrupt entity: 0

EVENT time: 219.905670, type: 0, timerinterrupt entity: 0

TOLAYER3: packet being lost

EVENT time: 229.905670, type: 0, timerinterrupt entity: 0

TOLAYER3: packet being corrupted

EVENT time: 239.905670, type: 0, timerinterrupt entity: 0

EVENT time: 242.246796, type: 2, fromlayer3 entity: 1

Ack 14

EVENT time: 243.479065, type: 0, timerinterrupt entity: 0

TOLAYER3: packet being corrupted

EVENT time: 246.728882, type: 0, timerinterrupt entity: 0

EVENT time: 247.037003, type: 0, timerinterrupt entity: 0

EVENT time: 249.867157, type: 1, fromlayer5 entity: 0

EVENT time: 249.905670, type: 0, timerinterrupt entity: 0

TOLAYER3: packet being corrupted

EVENT time: 249.967270, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 250.251266, type: 2, fromlayer3 entity: 0

EVENT time: 258.180389, type: 1, fromlayer5 entity: 0

EVENT time: 259.349915, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being lost  
Duplicate Ack 10

EVENT time: 260.989929, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being lost  
Duplicate Ack 12

EVENT time: 261.685364, type: 1, fromlayer5 entity: 0

EVENT time: 262.374817, type: 2, fromlayer3 entity: 1  
Ack 15

EVENT time: 264.266296, type: 2, fromlayer3 entity: 0

EVENT time: 264.849579, type: 1, fromlayer5 entity: 0

EVENT time: 265.184967, type: 2, fromlayer3 entity: 1  
Duplicate Ack 8

EVENT time: 270.845001, type: 1, fromlayer5 entity: 0

EVENT time: 273.541595, type: 2, fromlayer3 entity: 1  
Duplicate Ack 8

EVENT time: 274.983002, type: 2, fromlayer3 entity: 0

EVENT time: 278.575836, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Duplicate Ack 8

EVENT time: 284.192413, type: 2, fromlayer3 entity: 0

EVENT time: 284.856110, type: 1, fromlayer5 entity: 0

EVENT time: 285.038971, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Duplicate Ack 8

EVENT time: 286.871613, type: 2, fromlayer3 entity: 1  
Duplicate Ack 14

EVENT time: 288.354736, type: 1, fromlayer5 entity: 0

EVENT time: 288.438110, type: 2, fromlayer3 entity: 0

EVENT time: 288.682007, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being lost  
Duplicate Ack 15

EVENT time: 292.795868, type: 2, fromlayer3 entity: 0

EVENT time: 294.544128, type: 2, fromlayer3 entity: 1  
Ack 16

EVENT time: 299.423218, type: 2, fromlayer3 entity: 1  
Duplicate Ack 13

EVENT time: 302.576294, type: 2, fromlayer3 entity: 1  
Duplicate Ack 11

EVENT time: 302.726807, type: 2, fromlayer3 entity: 0  
Warning: unable to cancel your timer. It wasn't running.

EVENT time: 305.747589, type: 1, fromlayer5 entity: 0

EVENT time: 305.889648, type: 2, fromlayer3 entity: 0

EVENT time: 311.042572, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Duplicate Ack 12

EVENT time: 313.758423, type: 2, fromlayer3 entity: 0

EVENT time: 318.275085, type: 2, fromlayer3 entity: 1  
Duplicate Ack 13

EVENT time: 319.558899, type: 2, fromlayer3 entity: 0

EVENT time: 324.310272, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Duplicate Ack 11

EVENT time: 324.822388, type: 1, fromlayer5 entity: 0

EVENT time: 327.746002, type: 2, fromlayer3 entity: 0  
Window end at sender side: 24  
TOLAYER3: packet being lost  
TOLAYER3: packet being lost  
TOLAYER3: packet being corrupted

EVENT time: 227.292404, type: 0, timerinterrupt entity: 0

EVENT time: 229.265182, type: 0, timerinterrupt entity: 0

EVENT time: 237.292404, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 239.265182, type: 0, timerinterrupt entity: 0

EVENT time: 247.292404, type: 0, timerinterrupt entity: 0

EVENT time: 249.265182, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 253.479065, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 256.728882, type: 0, timerinterrupt entity: 0

EVENT time: 257.292419, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 259.265198, type: 0, timerinterrupt entity: 0

EVENT time: 259.905670, type: 0, timerinterrupt entity: 0

EVENT time: 263.479065, type: 0, timerinterrupt entity: 0

EVENT time: 266.728882, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 267.292419, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 269.265198, type: 0, timerinterrupt entity: 0

EVENT time: 269.905670, type: 0, timerinterrupt entity: 0

EVENT time: 273.479065, type: 0, timerinterrupt entity: 0

EVENT time: 276.728882, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 277.292419, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 279.265198, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 279.905670, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 283.479065, type: 0, timerinterrupt entity: 0

EVENT time: 286.728882, type: 0, timerinterrupt entity: 0

EVENT time: 287.292419, type: 0, timerinterrupt entity: 0

EVENT time: 289.265198, type: 0, timerinterrupt entity: 0

EVENT time: 289.905670, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 293.479065, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 296.728882, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 297.292419, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 299.265198, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 299.905670, type: 0, timerinterrupt entity: 0

EVENT time: 303.479065, type: 0, timerinterrupt entity: 0

EVENT time: 306.728882, type: 0, timerinterrupt entity: 0

EVENT time: 307.292419, type: 0, timerinterrupt entity: 0

EVENT time: 309.265198, type: 0, timerinterrupt entity: 0

EVENT time: 309.905670, type: 0, timerinterrupt entity: 0

EVENT time: 313.479065, type: 0, timerinterrupt entity: 0

EVENT time: 316.728882, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 317.292419, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 319.265198, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 319.905670, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 323.479065, type: 0, timerinterrupt entity: 0

EVENT time: 326.728882, type: 0, timerinterrupt entity: 0

EVENT time: 327.292419, type: 0, timerinterrupt entity: 0

EVENT time: 329.265198, type: 0, timerinterrupt entity: 0

EVENT time: 329.905670, type: 0, timerinterrupt entity: 0

EVENT time: 332.080994, type: 2, fromlayer3 entity: 1  
Duplicate Ack 12

EVENT time: 333.479065, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 335.632507, type: 2, fromlayer3 entity: 0

EVENT time: 336.728882, type: 0, timerinterrupt entity: 0



EVENT time: 337.292419, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 337.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 337.746002, type: 0, timerinterrupt entity: 0

EVENT time: 337.746002, type: 0, timerinterrupt entity: 0

EVENT time: 338.385834, type: 2, fromlayer3 entity: 1  
Duplicate Ack 11

EVENT time: 339.265198, type: 0, timerinterrupt entity: 0

EVENT time: 339.905670, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 341.193329, type: 2, fromlayer3 entity: 0

EVENT time: 343.450134, type: 1, fromlayer5 entity: 0

EVENT time: 343.479065, type: 0, timerinterrupt entity: 0

EVENT time: 346.716370, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being lost  
Ack 17

EVENT time: 346.728882, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 347.292419, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 347.746002, type: 0, timerinterrupt entity: 0

EVENT time: 347.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 347.746002, type: 0, timerinterrupt entity: 0

EVENT time: 348.441223, type: 2, fromlayer3 entity: 0

EVENT time: 349.265198, type: 0, timerinterrupt entity: 0

EVENT time: 349.905670, type: 0, timerinterrupt entity: 0

EVENT time: 350.145935, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Ack 18

EVENT time: 353.479065, type: 0, timerinterrupt entity: 0

EVENT time: 356.057251, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being lost  
Duplicate Ack 12

EVENT time: 356.419037, type: 2, fromlayer3 entity: 0

EVENT time: 356.728882, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 357.292419, type: 0, timerinterrupt entity: 0

EVENT time: 357.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 357.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 357.746002, type: 0, timerinterrupt entity: 0

EVENT time: 359.265198, type: 0, timerinterrupt entity: 0

EVENT time: 359.905670, type: 0, timerinterrupt entity: 0

EVENT time: 360.246155, type: 1, fromlayer5 entity: 0

EVENT time: 362.886810, type: 1, fromlayer5 entity: 0

EVENT time: 363.479065, type: 0, timerinterrupt entity: 0

EVENT time: 363.780121, type: 1, fromlayer5 entity: 0

EVENT time: 363.992401, type: 2, fromlayer3 entity: 0  
Wrong checksum for acknowledgement from B.

EVENT time: 364.878998, type: 2, fromlayer3 entity: 1  
Duplicate Ack 13

EVENT time: 366.367432, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 366.728882, type: 0, timerinterrupt entity: 0

EVENT time: 367.292419, type: 0, timerinterrupt entity: 0

EVENT time: 367.746002, type: 0, timerinterrupt entity: 0

EVENT time: 367.746002, type: 0, timerinterrupt entity: 0

EVENT time: 367.746002, type: 0, timerinterrupt entity: 0

EVENT time: 369.265198, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 369.547119, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 369.905670, type: 0, timerinterrupt entity: 0

EVENT time: 371.542419, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 372.796509, type: 2, fromlayer3 entity: 0

EVENT time: 373.479065, type: 0, timerinterrupt entity: 0

EVENT time: 374.105499, type: 1, fromlayer5 entity: 0

EVENT time: 376.728882, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 377.292419, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 377.746002, type: 0, timerinterrupt entity: 0

EVENT time: 377.746002, type: 0, timerinterrupt entity: 0

EVENT time: 377.746002, type: 0, timerinterrupt entity: 0

EVENT time: 379.265198, type: 0, timerinterrupt entity: 0

EVENT time: 379.905670, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 380.580261, type: 2, fromlayer3 entity: 1  
Duplicate Ack 13

EVENT time: 383.479065, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 385.025726, type: 2, fromlayer3 entity: 0

EVENT time: 385.796478, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being lost  
Duplicate Ack 11

EVENT time: 386.728882, type: 0, timerinterrupt entity: 0

EVENT time: 387.292419, type: 0, timerinterrupt entity: 0

EVENT time: 387.746002, type: 0, timerinterrupt entity: 0

EVENT time: 387.746002, type: 0, timerinterrupt entity: 0

EVENT time: 387.746002, type: 0, timerinterrupt entity: 0

EVENT time: 389.265198, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 389.905670, type: 0, timerinterrupt entity: 0

EVENT time: 390.437622, type: 2, fromlayer3 entity: 1  
Duplicate Ack 17

EVENT time: 391.582092, type: 2, fromlayer3 entity: 0  
Window end at sender side: 25

EVENT time: 337.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 347.746002, type: 0, timerinterrupt entity: 0

EVENT time: 357.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 367.746002, type: 0, timerinterrupt entity: 0

EVENT time: 377.746002, type: 0, timerinterrupt entity: 0

EVENT time: 387.746002, type: 0, timerinterrupt entity: 0

EVENT time: 392.738251, type: 1, fromlayer5 entity: 0

EVENT time: 396.728882, type: 0, timerinterrupt entity: 0

EVENT time: 397.292419, type: 0, timerinterrupt entity: 0

EVENT time: 397.746002, type: 0, timerinterrupt entity: 0

EVENT time: 397.746002, type: 0, timerinterrupt entity: 0

EVENT time: 397.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 397.746002, type: 0, timerinterrupt entity: 0

EVENT time: 399.265198, type: 0, timerinterrupt entity: 0

EVENT time: 399.550262, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Duplicate Ack 18

EVENT time: 400.114532, type: 1, fromlayer5 entity: 0

EVENT time: 401.582092, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 405.152008, type: 2, fromlayer3 entity: 0  
Window end at sender side: 26

EVENT time: 337.746002, type: 0, timerinterrupt entity: 0

EVENT time: 347.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 357.746002, type: 0, timerinterrupt entity: 0

EVENT time: 367.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 377.746002, type: 0, timerinterrupt entity: 0

EVENT time: 387.746002, type: 0, timerinterrupt entity: 0

EVENT time: 397.746002, type: 0, timerinterrupt entity: 0

EVENT time: 406.208679, type: 2, fromlayer3 entity: 1  
Duplicate Ack 12

EVENT time: 407.746002, type: 0, timerinterrupt entity: 0

EVENT time: 407.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 407.746002, type: 0, timerinterrupt entity: 0

EVENT time: 407.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 407.746002, type: 0, timerinterrupt entity: 0

EVENT time: 409.265198, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 410.070435, type: 2, fromlayer3 entity: 0

EVENT time: 410.769409, type: 2, fromlayer3 entity: 1  
Duplicate Ack 13

EVENT time: 411.582092, type: 0, timerinterrupt entity: 0

EVENT time: 413.885834, type: 2, fromlayer3 entity: 1  
Duplicate Ack 11

EVENT time: 415.152008, type: 0, timerinterrupt entity: 0

EVENT time: 416.383698, type: 2, fromlayer3 entity: 0

EVENT time: 417.693481, type: 2, fromlayer3 entity: 0

EVENT time: 417.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 417.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 417.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 417.746002, type: 0, timerinterrupt entity: 0

EVENT time: 417.746002, type: 0, timerinterrupt entity: 0

EVENT time: 417.747467, type: 1, fromlayer5 entity: 0

EVENT time: 419.265198, type: 0, timerinterrupt entity: 0

EVENT time: 421.582092, type: 0, timerinterrupt entity: 0

EVENT time: 422.415070, type: 2, fromlayer3 entity: 1  
Duplicate Ack 17

EVENT time: 425.152008, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 425.363892, type: 2, fromlayer3 entity: 0

EVENT time: 427.541992, type: 2, fromlayer3 entity: 1  
Duplicate Ack 18

EVENT time: 427.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 427.746002, type: 0, timerinterrupt entity: 0

EVENT time: 427.746002, type: 0, timerinterrupt entity: 0

EVENT time: 427.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 427.746002, type: 0, timerinterrupt entity: 0

EVENT time: 429.265198, type: 0, timerinterrupt entity: 0

EVENT time: 431.522064, type: 1, fromlayer5 entity: 0

EVENT time: 431.582092, type: 0, timerinterrupt entity: 0

EVENT time: 432.486847, type: 2, fromlayer3 entity: 1  
Duplicate Ack 12

EVENT time: 434.054291, type: 2, fromlayer3 entity: 0

EVENT time: 435.152008, type: 0, timerinterrupt entity: 0

EVENT time: 437.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 437.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 437.746002, type: 0, timerinterrupt entity: 0

EVENT time: 437.746002, type: 0, timerinterrupt entity: 0

EVENT time: 437.746002, type: 0, timerinterrupt entity: 0

EVENT time: 439.265198, type: 0, timerinterrupt entity: 0

EVENT time: 440.253204, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Duplicate Ack 13

EVENT time: 441.582092, type: 0, timerinterrupt entity: 0

EVENT time: 442.748535, type: 2, fromlayer3 entity: 0

EVENT time: 443.954987, type: 2, fromlayer3 entity: 0

EVENT time: 445.152008, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 447.746002, type: 0, timerinterrupt entity: 0

EVENT time: 447.746002, type: 0, timerinterrupt entity: 0

EVENT time: 447.746002, type: 0, timerinterrupt entity: 0

EVENT time: 447.746002, type: 0, timerinterrupt entity: 0

EVENT time: 447.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 448.385712, type: 1, fromlayer5 entity: 0

EVENT time: 448.576416, type: 2, fromlayer3 entity: 1  
Duplicate Ack 14

EVENT time: 449.265198, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 451.582092, type: 0, timerinterrupt entity: 0

EVENT time: 454.436035, type: 2, fromlayer3 entity: 1  
TOLAYER3: packet being corrupted  
Duplicate Ack 15

EVENT time: 455.152008, type: 0, timerinterrupt entity: 0

EVENT time: 457.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 457.746002, type: 0, timerinterrupt entity: 0

EVENT time: 457.746002, type: 0, timerinterrupt entity: 0

EVENT time: 457.746002, type: 0, timerinterrupt entity: 0

EVENT time: 457.955902, type: 2, fromlayer3 entity: 0

EVENT time: 459.265198, type: 0, timerinterrupt entity: 0

EVENT time: 461.582092, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 463.437836, type: 2, fromlayer3 entity: 1  
Duplicate Ack 13

EVENT time: 465.152008, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 466.477631, type: 2, fromlayer3 entity: 0  
Wrong checksum for acknowledgement from B.

EVENT time: 467.746002, type: 0, timerinterrupt entity: 0

EVENT time: 467.746002, type: 0, timerinterrupt entity: 0

EVENT time: 467.746002, type: 0, timerinterrupt entity: 0

EVENT time: 467.746002, type: 0, timerinterrupt entity: 0

EVENT time: 467.746002, type: 0, timerinterrupt entity: 0

EVENT time: 468.259705, type: 1, fromlayer5 entity: 0

EVENT time: 469.265198, type: 0, timerinterrupt entity: 0

EVENT time: 471.582092, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 472.472534, type: 1, fromlayer5 entity: 0

EVENT time: 473.285370, type: 2, fromlayer3 entity: 1  
Ack 19

EVENT time: 473.552246, type: 2, fromlayer3 entity: 0

EVENT time: 475.152008, type: 0, timerinterrupt entity: 0

EVENT time: 477.746002, type: 0, timerinterrupt entity: 0

EVENT time: 477.746002, type: 0, timerinterrupt entity: 0

EVENT time: 477.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 477.746002, type: 0, timerinterrupt entity: 0

EVENT time: 477.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 478.754578, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 479.265198, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted



EVENT time: 481.582092, type: 0, timerinterrupt entity: 0

EVENT time: 481.908905, type: 2, fromlayer3 entity: 0  
Window end at sender side: 27

EVENT time: 485.047699, type: 2, fromlayer3 entity: 1  
Duplicate Ack 19

EVENT time: 485.152008, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 274.849579, type: 0, timerinterrupt entity: 0

EVENT time: 284.849579, type: 0, timerinterrupt entity: 0

EVENT time: 294.849579, type: 0, timerinterrupt entity: 0

EVENT time: 304.849579, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 314.849579, type: 0, timerinterrupt entity: 0

EVENT time: 324.849579, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 334.849579, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 344.849579, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 354.849579, type: 0, timerinterrupt entity: 0

EVENT time: 364.849579, type: 0, timerinterrupt entity: 0

EVENT time: 374.849579, type: 0, timerinterrupt entity: 0

EVENT time: 384.849579, type: 0, timerinterrupt entity: 0

EVENT time: 394.849579, type: 0, timerinterrupt entity: 0

EVENT time: 404.849579, type: 0, timerinterrupt entity: 0

EVENT time: 414.849579, type: 0, timerinterrupt entity: 0

EVENT time: 424.849579, type: 0, timerinterrupt entity: 0

EVENT time: 434.849579, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 444.849579, type: 0, timerinterrupt entity: 0

EVENT time: 454.849579, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 464.849579, type: 0, timerinterrupt entity: 0

EVENT time: 474.849579, type: 0, timerinterrupt entity: 0

EVENT time: 484.849579, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 487.746002, type: 0, timerinterrupt entity: 0

EVENT time: 487.746002, type: 0, timerinterrupt entity: 0

EVENT time: 487.746002, type: 0, timerinterrupt entity: 0

EVENT time: 487.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 487.746002, type: 0, timerinterrupt entity: 0

EVENT time: 489.687866, type: 1, fromlayer5 entity: 0

EVENT time: 491.886261, type: 2, fromlayer3 entity: 0

EVENT time: 491.908905, type: 0, timerinterrupt entity: 0

EVENT time: 491.986816, type: 1, fromlayer5 entity: 0

EVENT time: 492.197479, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 493.543640, type: 2, fromlayer3 entity: 1  
Duplicate Ack 18

EVENT time: 494.849579, type: 0, timerinterrupt entity: 0

EVENT time: 495.152008, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 497.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 497.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 497.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 497.746002, type: 0, timerinterrupt entity: 0

EVENT time: 497.746002, type: 0, timerinterrupt entity: 0

EVENT time: 498.473846, type: 2, fromlayer3 entity: 0

EVENT time: 500.198822, type: 1, fromlayer5 entity: 0

EVENT time: 501.217896, type: 2, fromlayer3 entity: 1  
Duplicate Ack 12

EVENT time: 501.908905, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 504.849579, type: 0, timerinterrupt entity: 0

EVENT time: 505.152008, type: 0, timerinterrupt entity: 0

EVENT time: 507.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 507.746002, type: 0, timerinterrupt entity: 0

EVENT time: 507.746002, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 507.746002, type: 0, timerinterrupt entity: 0

EVENT time: 507.746002, type: 0, timerinterrupt entity: 0

EVENT time: 509.052643, type: 2, fromlayer3 entity: 0

EVENT time: 511.148926, type: 2, fromlayer3 entity: 1  
Wrong checksum for data transmitted from A.

EVENT time: 511.908905, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 514.849609, type: 0, timerinterrupt entity: 0

EVENT time: 515.151978, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being corrupted

EVENT time: 516.585205, type: 1, fromlayer5 entity: 0

EVENT time: 517.745972, type: 0, timerinterrupt entity: 0

EVENT time: 517.745972, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 517.745972, type: 0, timerinterrupt entity: 0

EVENT time: 517.745972, type: 0, timerinterrupt entity: 0

EVENT time: 517.745972, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 518.482178, type: 2, fromlayer3 entity: 1  
Ack 24

EVENT time: 521.908936, type: 0, timerinterrupt entity: 0  
TOLAYER3: packet being lost

EVENT time: 524.849609, type: 0, timerinterrupt entity: 0

EVENT time: 525.151978, type: 0, timerinterrupt entity: 0

EVENT time: 526.970215, type: 2, fromlayer3 entity: 1  
Ack 25

EVENT time: 526.985596, type: 2, fromlayer3 entity: 0

EVENT time: 527.745972, type: 0, timerinterrupt entity: 0

EVENT time: 527.745972, type: 0, timerinterrupt entity: 0

EVENT time: 527.833740, type: 1, fromlayer5 entity: 0

EVENT time: 528.562012, type: 2, fromlayer3 entity: 0