Lab 2: Reliable Transport Protocol

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The Alternating-bit-protocol version output

EVENT time: 2813.507812, type: 2, from layer3 entity: 0 A: received NAK for packet# 0

A: resending packet# 0, checksum 107, payload aaaaaaaaaaaaaaaaaaa

EVENT time: 2815.528320, type: 2, fromlayer3 entity: 1
B: received packet# 0, checksum 107, payload aaaaaaaaaaaaaaaa
B: sending ACK.

TOLAYER3: packet being corrupted

EVENT time: 2819.995605, type: 2, fromlayer3 entity: 0

A: ACK is corrupted

B: sending NAK.

___ Handle Loss -

EVENT time: 2833.507812, type: 0, timerinterrupt entity: 0 A: time out. A: resending packet# 0, checksum 107, payload aaaaaaaaaaaaaaaaaaaa TOLAYER3: packet being lost EVENT time: 2853.507812, type: 0, timerinterrupt entity: 0 A: time out. A: resending packet# 0, checksum 107, payload aaaaaaaaaaaaaaaaaaa _ 10 messages ACKed correctly EVENT time: 2862.936279, type: 2, fromlayer3 entity: 1 B: received packet# 0, checksum 107, payload aaaaaaaaaaaaaaaaaaa B: sending ACK. EVENT time: 2870.399170, type: 2, fromlayer3 entity: 0 A: received ACK for packet# 0, #ACK received: 0 EVENT time: 5268.726562, type: 1, fromlayer5 entity: 0 EVENT time: 5271.457031, type: 2, fromlayer3 entity: 1 B: sending ACK. TOLAYER3: packet being corrupted EVENT time: 5273.823242, type: 2, fromlayer3 entity: 0 A: ACK is corrupted EVENT time: 5288.726562, type: 0, timerinterrupt entity: 0 A: time out. TOLAYER3: packet being lost EVENT time: 5308.726562, type: 0, timerinterrupt entity: 0 A: time out. TOLAYER3: packet being lost EVENT time: 5328.726562, type: 0, timerinterrupt entity: 0 A: time out. EVENT time: 5334.975586, type: 2, fromlayer3 entity: 1 B: sending ACK.

EVENT time: 5336.456055, type: 2, fromlayer3 entity: 0 A: received ACK for packet# 1, #ACK received: 1 EVENT time: 6945.276367, type: 1, fromlayer5 entity: 0 A: sending packet# 0, checksum 67, payload cccccccccccccccc EVENT time: 6951.637207, type: 2, fromlayer3 entity: 1 B: received packet# 0, checksum 67, payload cccccccccccccccc B: sending ACK. TOLAYER3: packet being lost EVENT time: 6965.276367, type: 0, timerinterrupt entity: 0 A: time out. EVENT time: 6966.334961, type: 2, fromlayer3 entity: 1 B: sending ACK. TOLAYER3: packet being lost EVENT time: 6985.276367, type: 0, timerinterrupt entity: 0 A: time out. EVENT time: 6990.550293, type: 2, fromlayer3 entity: 1 B: received packet# 0, checksum 67, payload cccccccccccccccc B: sending ACK. TOLAYER3: packet being lost EVENT time: 7005.276367, type: 0, timerinterrupt entity: 0 A: time out. EVENT time: 7014.057617, type: 2, fromlayer3 entity: 1 B: received packet# 0, checksum 67, payload ccccccccccccccc B: sending ACK. TOLAYER3: packet being lost EVENT time: 7025.276367, type: 0, timerinterrupt entity: 0 A: time out. A: resending packet# 0, checksum 67, payload cccccccccccccccccccccc TOLAYER3: packet being lost

EVENT time: 7045.276367, type: 0, timerinterrupt entity: 0

A: time out.

TOLAYER3: packet being corrupted EVENT time: 7050.095703, type: 2, fromlayer3 entity: 1 B: packet is corrupted. B: sending NAK. EVENT time: 7053.757324, type: 2, fromlayer3 entity: 0 A: received NAK for packet# 0 TOLAYER3: packet being corrupted EVENT time: 7062.667969, type: 2, fromlayer3 entity: 1 B: packet is corrupted. B: sending NAK. TOLAYER3: packet being corrupted EVENT time: 7068.285645, type: 2, fromlayer3 entity: 0 A: ACK is corrupted EVENT time: 7073.757324, type: 0, timerinterrupt A: time out. TOLAYER3: packet being corrupted EVENT time: 7075.789062, type: 2, fromlayer3 entity: 1 B: packet is corrupted. B: sending NAK. TOLAYER3: packet being corrupted EVENT time: 7083.532227, type: 2, fromlayer3 entity: 0 A: ACK is corrupted EVENT time: 7093.757324, type: 0, timerinterrupt entity: 0 A: time out. EVENT time: 7100.448730, type: 2, fromlayer3 entity: 1 B: received packet# 0, checksum 67, payload cccccccccccccccc B: sending ACK.

TOLAYER3: packet being corrupted

EVENT time: 7105.921387, type: 2, fromlayer3 entity: 0

A: ACK is corrupted

EVENT time: 7113.757324, type: 0, timerinterrupt entity: 0

A: time out.

EVENT time: 7119.144043, type: 2, fromlayer3 entity: 1

B: received packet# 0, checksum 67, payload cccccccccccccccc

B: sending ACK.

EVENT time: 7120.848145, type: 2, fromlayer3 entity: 0

A: received ACK for packet# 0, #ACK received: 2

EVENT time: 8557.933594, type: 1, fromlayer5 entity: 0

EVENT time: 8565.891602, type: 2, fromlayer3 entity: 1

B: sending ACK.

EVENT time: 8570.284180, type: 2, fromlayer3 entity: 0

A: received ACK for packet# 1, #ACK received: 3

EVENT time: 8732.501953, type: 1, fromlayer5 entity: 0

A: sending packet# 0, checksum 27, payload eeeeeeeeeeeeeee

EVENT time: 8742.349609, type: 2, fromlayer3 entity: 1

B: received packet# 0, checksum 27, payload eeeeeeeeeeeeeee

B: sending ACK.

EVENT time: 8745.094727, type: 2, fromlayer3 entity: 0

A: received ACK for packet# 0, #ACK received: 4

EVENT time: 9638.583008, type: 1, fromlayer5 entity: 0

EVENT time: 9645.198242, type: 2, fromlayer3 entity: 1

B: sending ACK.

EVENT time: 9648.504883, type: 2, fromlayer3 entity: 0

A: received ACK for packet# 1, #ACK received: 5

EVENT time: 11900.959961, type: 1, fromlayer5 entity: 0

EVENT time: 11902.473633, type: 2, fromlayer3 entity: 1

B: packet is corrupted.

B: sending NAK.

TOLAYER3: packet being corrupted

EVENT time: 11903.571289, type: 2, fromlayer3 entity: 0

A: ACK is corrupted

EVENT time: 11920.959961, type: 0, timerinterrupt entity: 0

A: time out.

EVENT time: 11923.109375, type: 2, fromlayer3 entity: 1

B: sending ACK.

TOLAYER3: packet being corrupted

EVENT time: 11924.693359, type: 2, fromlayer3 entity: 0

A: ACK is corrupted

EVENT time: 11940.959961, type: 0, timerinterrupt entity: 0

A: time out.

EVENT time: 11946.207031, type: 2, fromlayer3 entity: 1

B: sending ACK.

TOLAYER3: packet being corrupted

EVENT time: 11955.150391, type: 2, fromlayer3 entity: 0

A: ACK is corrupted

EVENT time: 11960.959961, type: 0, timerinterrupt entity: 0

A: time out.

TOLAYER3: packet being corrupted

EVENT time: 11970.282227, type: 2, fromlayer3 entity: 1

B: packet is corrupted.

B: sending NAK.

TOLAYER3: packet being corrupted

EVENT time: 11973.278320, type: 2, fromlayer3 entity: 0

A: ACK is corrupted

EVENT time: 11980.959961, type: 0, timerinterrupt entity: 0

A: time out.

EVENT time: 11982.109375, type: 2, fromlayer3 entity: 1

B: packet is corrupted.

B: sending NAK.

EVENT time: 11989.677734, type: 2, fromlayer3 entity: 0

A: received NAK for packet# 0

EVENT time: 11993.851562, type: 2, fromlayer3 entity: 1

B: sending ACK.

EVENT time: 12001.453125, type: 2, fromlayer3 entity: 0

A: received ACK for packet# 0, #ACK received: 6

EVENT time: 13654.051758, type: 1, fromlayer5 entity: 0

EVENT time: 13658.952148, type: 2, fromlayer3 entity: 1

B: sending ACK.

EVENT time: 13668.690430, type: 2, fromlayer3 entity: 0

A: received ACK for packet# 1, #ACK received: 7

EVENT time: 15411.281250, type: 1, fromlayer5 entity: 0

EVENT time: 15417.223633, type: 2, fromlayer3 entity: 1

B: sending ACK.

TOLAYER3: packet being lost

EVENT time: 15431.281250, type: 0, timerinterrupt entity: 0

A: time out.

EVENT time: 15438.112305, type: 2, fromlayer3 entity: 1

B: sending ACK.

EVENT time: 15447.312500, type: 2, fromlayer3 entity: 0

A: received ACK for packet# 0, #ACK received: 8

EVENT time: 16185.201172, type: 1, fromlayer5 entity: 0

A: sending packet# 1, checksum 182, payload jjjjjjjjjjjjjjjjjjjjjj

EVENT time: 16191.740234, type: 2, fromlayer3 entity: 1

B: received packet# 1, checksum 182, payload jjjjjjjjjjjjjjjjjjjj

B: sending ACK.

EVENT time: 16195.847656, type: 2, fromlayer3 entity: 0

A: received ACK for packet# 1, #ACK received: 9

EVENT time: 18080.335938, type: 1, fromlayer5 entity: 0

EVENT time: 18083.115234, type: 2, fromlayer3 entity: 1

B: received packet# 0, checksum 163, payload Zkkkkkkkkkkkkkkkkkkkkk

B: packet is corrupted.

B: sending NAK.

EVENT time: 18090.875000, type: 2, fromlayer3 entity: 0

A: received NAK for packet# 0

EVENT time: 18110.875000, type: 0, timerinterrupt entity: 0

A: time out.

EVENT time: 18118.267578, type: 2, fromlayer3 entity: 1

B: packet is corrupted.

B: sending NAK.

TOLAYER3: packet being corrupted EVENT time: 18120.685547, type: 2, fromlayer3 entity: 0 A: ACK is corrupted EVENT time: 18130.875000, type: 0, timerinterrupt entity: 0 A: time out. TOLAYER3: packet being corrupted EVENT time: 18139.630859, type: 2, fromlayer3 entity: 1 B: received packet# 0, checksum 163, payload Zkkkkkkkkkkkkkkkkkkkkk B: packet is corrupted. B: sending NAK. EVENT time: 18142.144531, type: 2, fromlayer3 entity: 0 A: received NAK for packet# 0 EVENT time: 18144.007812, type: 2, fromlayer3 entity: 1 B: sending ACK. EVENT time: 18148.132812, type: 2, fromlayer3 entity: 0 A: received ACK for packet# 0, #ACK received: 10

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EVENT time: 23096.050781, type: 1, fromlayer5 entity: 0

A: sending packet# 0, checksum 83, payload ooooooooooooooooo

EVENT time: 23104.203125, type: 2, fromlayer3 entity: 1 Simulator terminated at time 23104.203125

after sending 15 msgs from layer5