Stop and Wait Matt Stropkey Project 2 Friday, July 12, 2019 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 Sending packet with sequence number 0 at A at time 1870.573975 TOLAYER3: packet being corrupted EVENT time: 1876.039062, type: 2, fromlayer3 entity: 1 Beards NAK as packet Sending a negative acknowledgement in P Sending a negative acknowledgement in B EVENT time: 1878.220703, type: 2, fromlayer3 entity: 0 ·NAK in A causes packet to be resent Invalid packet acknowledgement received by A Resending packet for A with sequence number 0 EVENT time: 1880.241211, type: 2, fromlayer3 entity: 1 · correct packet received Sending acknowledgement for packet 0 in B TOLAYER3: packet being corrupted EVENT time: 1884.708496, type: 2, fromlayer3 entity: 0 · corrupt ACK causes A to resent packet Invalid packet acknowledgement received by A Resending packet for A with sequence number 0 TOLAYER3: packet being lost EVENT time: 1904.708496, type: 0, timerinterrupt entity: 0 o no response from B within time period since packet lost sent so resend Timer interrupt in A at 1904.708496 Resending packet for A with sequence number 0 EVENT time: 1914.136963, type: 2, fromlayer3 entity: 1 ·B sends previous ACK as duplicate defected Resending previous ACK again as a duplicate packet was received by B EVENT time: 1921.599854, type: 2, fromlayer3 entity: 0 The valid packet acknowledgement was received by A at 1921.599854 A received valid ACL

1 al outet

EVENT time: 3512.483887, type: 1, fromlayer5 entity: 0

EVENT time: 3512.483887, type: 1, fromlayer5 entity: 0 osending next packet Sending packet with sequence number 1 at A at time 3512.483887 EVENT time: 3515.214111, type: 2, fromlayer3 entity: 1 · B received valid packet Sending acknowledgement for packet 1 in B TOLAYER3: packet being corrupted EVENT time: 3517.580566, type: 2, fromlayer3 entity: 0 · Areceved corrupt ACK, thus resinding packet Invalid packet acknowledgement received by A Resending packet for A with sequence number 1 TOLAYER3: packet being lost EVENT time: 3537.580566, type: 0, timerinterrupt entity: 0 o no response from B within time period since packet lost sent so resend Timer interrupt in A at 3537.580566 Resending packet for A with sequence number 1 TOLAYER3: packet being lost EVENT time: 3557.580566, type: 0, timerinterrupt entity: 0 o no response from B within time period since packet lost sent so resend Timer interrupt in A at 3557.580566 Resending packet for A with sequence number 1 · B received du plicate so resend previous ACK EVENT time: 3563.829590, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a duplicate packet was received by B EVENT time: 3565.310303, type: 2, fromlayer3 entity: 0 · A received valid ACK The valid packet acknowledgement was received by A at 3565.310303 EVENT time: 4630.183594, type: 1, fromlayer5 entity: 0 · A sending next packet Sending packet with sequence number 0 at A at time 4630.183594 · B sunding ACK for valid packet EVENT time: 4636.544434, type: 2, fromlayer3 entity: 1 Sending acknowledgement for packet 0 in B TOLAYER3: packet being lost EVENT time: 4640.183594, type: 0, timerinterrupt entity: 0 In o response from B within time period since packet lost sent so resend Timer interrupt in A at 4640.183594 Resending packet for A with sequence number 0

EVENIT +ima, 1611 212100 +una, 2 framlavar2 antitu, 1

Homework Page 2

Brace Lolicale

EVENT time: 4641.242188, type: 2, fromlayer3 entity: 1

·Breceived duplicate so resend previous ACK

Resending previous ACK again as a duplicate packet was received by B

TOLAYER3: packet being lost

EVENT time: 4660.183594, type: 0, timerinterrupt entity: 0

• no response from B within time period since packet lost sent so resend

Timer interrupt in A at 4660.183594

Resending packet for A with sequence number 0

EVENT time: 4665.457520, type: 2, fromlayer3 entity: 1

Resending previous ACK again as a duplicate packet was received by B

· B received duplicate so resend previous ACK

TOLAYER3: packet being lost

EVENT time: 4680.183594, type: 0, timerinterrupt entity: 0

Timer interrupt in A at 4680.183594

In response from B within time period since packet lost sent so resend

Resending packet for A with sequence number 0

EVENT time: 4688.964844, type: 2, fromlayer3 entity: 1

Resending previous ACK again as a duplicate packet was received by B

· B received duplicate so resend previous Ack

TOLAYER3: packet being lost

EVENT time: 4700.183594, type: 0, timerinterrupt entity: 0

Timer interrupt in A at 4700.183594

Resending packet for A with sequence number 0

TOLAYER3: packet being lost

· no response from B within time period since packet last sent so resend

EVENT time: 4720.183594, type: 0, timerinterrupt entity: 0

Timer interrupt in A at 4720.183594

• no response from B within time period since packet lost sent so resend

Resending packet for A with sequence number 0

TOLAYER3: packet being corrupted

EVENT time: 4725.002930, type: 2, fromlayer3 entity: 1

Resending previous ACK again as incorrect packet was received by B

o resembling last ACK as current packet corrupt

EVENT time: 4728.664551, type: 2, fromlayer3 entity: 0

· A received valid ACK The valid packet acknowledgement was received by A at 4728.664551

EVENT time: 5705.288086, type: 1, fromlayer5 entity: 0

Sending packet with sequence number 1 at A at time 5705.288086

· A sending next packet

· A sending next packet Sending packet with sequence number 1 at A at time 5705.288086 EVENT time: 5706.565430, type: 2, fromlayer3 entity: 1 oB sending ACK for valid packet Sending acknowledgement for packet 1 in B TOLAYER3: packet being corrupted EVENT time: 5712.183105, type: 2, fromlayer3 entity: 0 · A received corrupt message, thus resend packet Invalid packet acknowledgement received by A Resending packet for A with sequence number 1 TOLAYER3: packet being corrupted ob resending previous ACK as parket received is corrupt EVENT time: 5714.214844, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a incorrect packet was received by B TOLAYER3: packet being corrupted · A received corrupt ACK so resending packet EVENT time: 5721.958008, type: 2, fromlayer3 entity: 0 Invalid packet acknowledgement received by A Resending packet for A with sequence number 1 EVENT time: 5728.649414, type: 2, fromlayer3 entity: 1 · duplicate received by Pso resmo ACK Resending previous ACK again as a duplicate packet was received by B TOLAYER3: packet being corrupted EVENT time: 5734.122070, type: 2, fromlayer3 entity: 0 · A received corrupt ACK so resending packet Invalid packet acknowledgement received by A Resending packet for A with sequence number 1 · B received duplicate so resending previous ACK EVENT time: 5739.508789, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a duplicate packet was received by B · A received valid ACK EVENT time: 5741.212891, type: 2, fromlayer3 entity: 0 The valid packet acknowledgement was received by A at 5741.212891 EVENT time: 7534.791016, type: 1, fromlayer5 entity: 0 · A sending next packet Sending packet with sequence number 0 at A at time 7534.791016 · B sending ACK For valid ACK EVENT time: 7542.749023, type: 2, fromlayer3 entity: 1 Sending acknowledgement for packet 0 in B · no response from B within EVENT time: 7544.791016, type: 0, timerinterrupt entity: 0

• no response from B within time period since packet lost sent so resend EVENT time: 7544.791016, type: 0, timerinterrupt entity: 0 Timer interrupt in A at 7544.791016 Resending packet for A with sequence number 0 · A received valid ACK EVENT time: 7547.141602, type: 2, fromlayer3 entity: 0 The valid packet acknowledgement was received by A at 7547.141602 · duplicate packet detected by b so resending ACK EVENT time: 7550.456055, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a duplicate packet was received by B TOLAYER3: packet being corrupted · A received a ALK but soes not corrently have unacknowledged EVENT time: 7557.152832, type: 2, fromlayer3 entity: 0 Received acknowledgement in A but not waiting on any at time 7557.152832 EVENT time: 7651.169922, type: 1, fromlayer5 entity: 0 · A sending next packet Sending packet with sequence number 1 at A at time 7651.169922 · B sending ACK for valid padent EVENT time: 7657.785645, type: 2, fromlayer3 entity: 1 Sending acknowledgement for packet 1 in B · A received valid ACK EVENT time: 7661.092773, type: 2, fromlayer3 entity: 0 The valid packet acknowledgement was received by A at 7661.092773 EVENT time: 9159.420898, type: 1, fromlayer5 entity: 0 . A sending next packet Sending packet with sequence number 0 at A at time 9159.420898 TOLAYER3: packet being corrupted · B received corrupt packet, send NAK EVENT time: 9160.934570, type: 2, fromlayer3 entity: 1 Sending a negative acknowledgement in B TOLAYER3: packet being corrupted · corrupt packet at A, resend EVENT time: 9162.032227, type: 2, fromlayer3 entity: 0 Invalid packet acknowledgement received by A Resending packet for A with sequence number 0 EVENT time: 9164.181641, type: 2, fromlayer3 entity: 1 · B sending ACK for valid packet Sending acknowledgement for packet 0 in B TOLAYER3: packet being corrupted

EVENT time: 9165.765625, type: 2, fromlayer3 entity: 0 Invalid packet acknowledgement received by A Resending packet for A with sequence number 0
EVENT time: 9171.012695, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a duplicate packet was received by B TOLAYER3: packet being corrupted
EVENT time: 9179.956055, type: 2, fromlayer3 entity: 0 Invalid packet acknowledgement received by A Resending packet for A with sequence number 0 TOLAYER3: packet being corrupted
EVENT time: 9189.278320, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a incorrect packet was received by B TOLAYER3: packet being corrupted TOLAYER3: packet being corrupted
EVENT time: 9192.274414, type: 2, fromlayer3 entity: 0 Invalid packet acknowledgement received by A Resending packet for A with sequence number 0 TOLAYER3: packet being corrupted
EVENT time: 9193.423828, type: 2, fromlayer3 entity: 1 Sending a negative acknowledgement in B Sending a NAK
EVENT time: 9200.992188, type: 2, fromlayer3 entity: 0 Invalid packet acknowledgement received by A Resending packet for A with sequence number 0
EVENT time: 9205.166016, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a duplicate packet was received by B B (Sending fruious ACK)
EVENT time: 9212.767578, type: 2, fromlayer3 entity: 0 The valid packet acknowledgement was received by A at 9212.767578 A received ACK
EVENT time: 10328.148438, type: 1, fromlayer5 entity: 0 Sending packet with sequence number 1 at A at time 10328.148438

EVENT time: 10333.048828, type: 2, fromlayer3 entity: 1 Sending acknowledgement for packet 1 in B continues handling corrupt/ lost packets in the same ways EVENT time: 10338.215820, type: 0, timerinterrupt entity: 0 Timer interrupt in A at 10338.215820 Resending packet for A with sequence number 1 EVENT time: 10340.490234, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a duplicate packet was received by B EVENT time: 10342.787109, type: 2, fromlayer3 entity: 0 The valid packet acknowledgement was received by A at 10342.787109 EVENT time: 10344.383789, type: 2, fromlayer3 entity: 0 Received acknowledgement in A but not waiting on any at time 10344.383789 EVENT time: 11499.634766, type: 1, fromlayer5 entity: 0 Sending packet with sequence number 0 at A at time 11499.634766 EVENT time: 11508.064453, type: 2, fromlayer3 entity: 1 Sending acknowledgement for packet 0 in B EVENT time: 11509.702148, type: 0, timerinterrupt entity: 0 Timer interrupt in A at 11509.702148 Resending packet for A with sequence number 0 TOLAYER3: packet being corrupted EVENT time: 11514.750000, type: 2, fromlayer3 entity: 0 The valid packet acknowledgement was received by A at 11514.750000 EVENT time: 11515.412109, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a duplicate packet was received by B EVENT time: 11522.212891, type: 2, fromlayer3 entity: 0 Received acknowledgement in A but not waiting on any at time 11522.212891 EVENT time: 12795.375000, type: 1, fromlayer5 entity: 0 Sending packet with sequence number 1 at A at time 12795.375000

EVENT time: 12800.258789, type: 2, fromlayer3 entity: 1 Sending acknowledgement for packet 1 in B TOLAYER3: packet being corrupted EVENT time: 12804.273438, type: 2, fromlayer3 entity: 0 Invalid packet acknowledgement received by A Resending packet for A with sequence number 1 EVENT time: 12805.417969, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a duplicate packet was received by B TOLAYER3: packet being corrupted EVENT time: 12807.835938, type: 2, fromlayer3 entity: 0 Invalid packet acknowledgement received by A Resending packet for A with sequence number 1 TOLAYER3: packet being corrupted EVENT time: 12816.591797, type: 2, fromlayer3 entity: 1 Resending previous ACK again as a incorrect packet was received by B EVENT time: 12819.105469, type: 2, fromlayer3 entity: 0 The valid packet acknowledgement was received by A at 12819.105469 EVENT time: 13190.615234, type: 1, fromlayer5 entity: 0 Sending packet with sequence number 0 at A at time 13190.615234 TOLAYER3: packet being lost EVENT time: 13200.682617, type: 0, timerinterrupt entity: 0 Simulator terminated at time 13200.682617 after sending 11 msgs from layer5