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**Project Report**

**CSE335, Course Name**

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Date: 29 / 1 /2022

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# Introduction

Project is divided into 2 parts

* Alternating-Bit-Protocol version
* Go-Back-N version.

# Description of Functions

## A\_output(message)

Where message is a msg-type structure that contains data to be transmitted to the B-side. When the higher layer on the sending side (A) has a message to transmit, this function will be invoked. It is your protocol's responsibility to guarantee that the data in such a message is transmitted to the receiving side higher layer in the right sequence.

## A\_input(packet)

Where packet is a pkt-type structure. When a packet transmitted from the B-side (i.e., as a consequence of a tolayer3() call by a B-side operation) arrives at the A-side, this function will be invoked. The (potentially corrupted) packet transmitted from the B-side is called packet.

## A\_timerinterrupt()

This schedule will be called when A's clock lapses (in this way creating a clock hinder). You'll likely need to utilize this schedule to control the retransmission of bundles. See starttimer() and stoptimer() underneath for how the clock is begun and halted

## A\_init()

This routine is called once before any of your other A-side routines are called. Can be used to perform any required initialization

## B\_input(packet)

Where packet is a structure of type pkt. This routine is called every time a packet sent from the A-side (that is, as a result of tolayer3 () executed by the side handler) arrives at the bside. Packets are packets sent by Aside (which may be corrupted).

## B\_init()

This routine is called once before other bside routines are called. It can be used to perform the required initialization.

# Simulation

## Alternating-Bit-Protocol

Command used to run:

.\a.exe num\_of\_msgs loss\_prob corruption\_prob time\_between\_msgs debug\_level

### Messages = 10, packet loss probability = 0, packet corruption probability = 0, average time between messages = 5, trace = 0

Command: .\a.exe 10 0 0 5 0

Output:

the number of messages to simulate: 10

packet loss probability: 0.000000

packet corruption probability: 0.000000

average time between messages from sender's layer5: 5.000000

TRACE: 0

A\_output: send packet: aaaaaaaaaaaaaaaaaaa

B\_input: recv message: aaaaaaaaaaaaaaaaaaa

B\_input: send ACK.

A\_output: not yet acked. drop the message: bbbbbbbbbbbbbbbbbbb

A\_input: acked.

A\_output: send packet: ccccccccccccccccccc

B\_input: recv message: ccccccccccccccccccc

B\_input: send ACK.

A\_output: not yet acked. drop the message: ddddddddddddddddddd

A\_output: not yet acked. drop the message: eeeeeeeeeeeeeeeeeee

A\_input: acked.

A\_output: send packet: fffffffffffffffffff

B\_input: recv message: fffffffffffffffffff

B\_input: send ACK.

A\_output: not yet acked. drop the message: ggggggggggggggggggg

A\_output: not yet acked. drop the message: hhhhhhhhhhhhhhhhhhh

A\_input: acked.

A\_output: send packet: iiiiiiiiiiiiiiiiiii

B\_input: recv message: iiiiiiiiiiiiiiiiiii

B\_input: send ACK.

A\_output: not yet acked. drop the message: jjjjjjjjjjjjjjjjjjj

A\_input: acked.

Simulator terminated at time 47.591816

after sending 10 msgs from layer5

### Messages = 50, packet loss probability = 0.3, packet corruption probability = 0, average time between messages = 10, trace = 0

Command: .\a.exe 50 0.3 0 10 0

Output:

the number of messages to simulate: 50

packet loss probability: 0.300000

packet corruption probability: 0.000000

average time between messages from sender's layer5: 10.000000

TRACE: 0

A\_output: send packet: aaaaaaaaaaaaaaaaaaa

B\_input: recv message: aaaaaaaaaaaaaaaaaaa

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: bbbbbbbbbbbbbbbbbbb

B\_input: recv message: bbbbbbbbbbbbbbbbbbb

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: ccccccccccccccccccc

B\_input: recv message: ccccccccccccccccccc

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: ddddddddddddddddddd

B\_input: recv message: ddddddddddddddddddd

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: eeeeeeeeeeeeeeeeeee

B\_input: recv message: eeeeeeeeeeeeeeeeeee

B\_input: send ACK.

A\_output: not yet acked. drop the message: fffffffffffffffffff

A\_timerinterrupt: resend last packet: eeeeeeeeeeeeeeeeeee.

A\_output: not yet acked. drop the message: ggggggggggggggggggg

A\_output: not yet acked. drop the message: hhhhhhhhhhhhhhhhhhh

B\_input: not the expected seq. send NAK.

A\_timerinterrupt: resend last packet: eeeeeeeeeeeeeeeeeee.

A\_output: not yet acked. drop the message: iiiiiiiiiiiiiiiiiii

B\_input: not the expected seq. send NAK.

A\_output: not yet acked. drop the message: jjjjjjjjjjjjjjjjjjj

A\_input: acked.

A\_output: send packet: kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend last packet: kkkkkkkkkkkkkkkkkkk.

A\_output: not yet acked. drop the message: lllllllllllllllllll

A\_output: not yet acked. drop the message: mmmmmmmmmmmmmmmmmmm

B\_input: recv message: kkkkkkkkkkkkkkkkkkk

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: nnnnnnnnnnnnnnnnnnn

B\_input: recv message: nnnnnnnnnnnnnnnnnnn

B\_input: send ACK.

A\_output: not yet acked. drop the message: ooooooooooooooooooo

A\_input: acked.

A\_output: send packet: ppppppppppppppppppp

B\_input: recv message: ppppppppppppppppppp

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: qqqqqqqqqqqqqqqqqqq

A\_output: not yet acked. drop the message: rrrrrrrrrrrrrrrrrrr

A\_output: not yet acked. drop the message: sssssssssssssssssss

A\_output: not yet acked. drop the message: ttttttttttttttttttt

B\_input: recv message: qqqqqqqqqqqqqqqqqqq

B\_input: send ACK.

A\_output: not yet acked. drop the message: uuuuuuuuuuuuuuuuuuu

A\_input: acked.

A\_output: send packet: vvvvvvvvvvvvvvvvvvv

A\_output: not yet acked. drop the message: wwwwwwwwwwwwwwwwwww

A\_output: not yet acked. drop the message: xxxxxxxxxxxxxxxxxxx

A\_output: not yet acked. drop the message: yyyyyyyyyyyyyyyyyyy

A\_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvv.

A\_output: not yet acked. drop the message: zzzzzzzzzzzzzzzzzzz

A\_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvv.

A\_output: not yet acked. drop the message: aaaaaaaaaaaaaaaaaaa

A\_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvv.

A\_output: not yet acked. drop the message: bbbbbbbbbbbbbbbbbbb

B\_input: recv message: vvvvvvvvvvvvvvvvvvv

B\_input: send ACK.

A\_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvv.

A\_output: not yet acked. drop the message: ccccccccccccccccccc

B\_input: not the expected seq. send NAK.

A\_input: acked.

A\_output: send packet: ddddddddddddddddddd

B\_input: recv message: ddddddddddddddddddd

B\_input: send ACK.

A\_timerinterrupt: resend last packet: ddddddddddddddddddd.

B\_input: not the expected seq. send NAK.

A\_output: not yet acked. drop the message: eeeeeeeeeeeeeeeeeee

A\_input: acked.

A\_output: send packet: fffffffffffffffffff

A\_output: not yet acked. drop the message: ggggggggggggggggggg

A\_timerinterrupt: resend last packet: fffffffffffffffffff.

A\_output: not yet acked. drop the message: hhhhhhhhhhhhhhhhhhh

A\_output: not yet acked. drop the message: iiiiiiiiiiiiiiiiiii

A\_output: not yet acked. drop the message: jjjjjjjjjjjjjjjjjjj

B\_input: recv message: fffffffffffffffffff

B\_input: send ACK.

A\_output: not yet acked. drop the message: kkkkkkkkkkkkkkkkkkk

A\_input: acked.

A\_output: send packet: lllllllllllllllllll

A\_timerinterrupt: resend last packet: lllllllllllllllllll.

A\_output: not yet acked. drop the message: mmmmmmmmmmmmmmmmmmm

B\_input: recv message: lllllllllllllllllll

B\_input: send ACK.

A\_timerinterrupt: resend last packet: lllllllllllllllllll.

A\_output: not yet acked. drop the message: nnnnnnnnnnnnnnnnnnn

B\_input: not the expected seq. send NAK.

A\_timerinterrupt: resend last packet: lllllllllllllllllll.

B\_input: not the expected seq. send NAK.

A\_output: not yet acked. drop the message: ooooooooooooooooooo

A\_input: acked.

A\_output: send packet: ppppppppppppppppppp

B\_input: recv message: ppppppppppppppppppp

B\_input: send ACK.

A\_timerinterrupt: resend last packet: ppppppppppppppppppp.

A\_output: not yet acked. drop the message: qqqqqqqqqqqqqqqqqqq

A\_output: not yet acked. drop the message: rrrrrrrrrrrrrrrrrrr

B\_input: not the expected seq. send NAK.

A\_input: acked.

A\_output: send packet: sssssssssssssssssss

B\_input: recv message: sssssssssssssssssss

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: ttttttttttttttttttt

A\_output: not yet acked. drop the message: uuuuuuuuuuuuuuuuuuu

B\_input: recv message: ttttttttttttttttttt

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: vvvvvvvvvvvvvvvvvvv

A\_output: not yet acked. drop the message: wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvv.

A\_output: not yet acked. drop the message: xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvv.

A\_timerinterrupt: resend last packet: vvvvvvvvvvvvvvvvvvv.

B\_input: recv message: vvvvvvvvvvvvvvvvvvv

B\_input: send ACK.

A\_input: acked.

Simulator terminated at time 507.020447

after sending 50 msgs from layer5

### Messages = 10, packet loss probability = 0.0, packet corruption probability = 0.3, average time between messages = 10, trace = 0

Command: .\a.exe 10 0 0.3 10 0

Output:

the number of messages to simulate: 10

packet loss probability: 0.000000

packet corruption probability: 0.300000

average time between messages from sender's layer5: 10.000000

TRACE: 0

A\_output: send packet: aaaaaaaaaaaaaaaaaaa

B\_input: recv message: aaaaaaaaaaaaaaaaaaa

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: bbbbbbbbbbbbbbbbbbb

B\_input: recv message: bbbbbbbbbbbbbbbbbbb

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: ccccccccccccccccccc

B\_input: recv message: ccccccccccccccccccc

B\_input: send ACK.

A\_input: acked.

A\_output: send packet: ddddddddddddddddddd

B\_input: packet corrupted. send NAK.

A\_input: not the expected ACK. drop.

A\_timerinterrupt: resend last packet: ddddddddddddddddddd.

A\_output: not yet acked. drop the message: eeeeeeeeeeeeeeeeeee

A\_output: not yet acked. drop the message: fffffffffffffffffff

B\_input: recv message: ddddddddddddddddddd

B\_input: send ACK.

A\_output: not yet acked. drop the message: ggggggggggggggggggg

A\_input: acked.

A\_output: send packet: hhhhhhhhhhhhhhhhhhh

B\_input: recv message: hhhhhhhhhhhhhhhhhhh

B\_input: send ACK.

A\_output: not yet acked. drop the message: iiiiiiiiiiiiiiiiiii

A\_input: acked.

A\_output: send packet: jjjjjjjjjjjjjjjjjjj

B\_input: recv message: jjjjjjjjjjjjjjjjjjj

B\_input: send ACK.

A\_timerinterrupt: resend last packet: jjjjjjjjjjjjjjjjjjj.

A\_input: acked.

B\_input: not the expected seq. send NAK.

A\_input: A->B only. drop.

Simulator terminated at time 117.520515

after sending 10 msgs from layer5

## Go-Back-N

Command used to run:

.\a.exe num\_of\_msgs loss\_prob corruption\_prob time\_between\_msgs debug\_level

### Messages = 10, packet loss probability = 0, packet corruption probability = 0, average time between messages = 5, trace = 0

Command: .\a.exe 10 0 0 5 0

Output:

the number of messages to simulate: 10

packet loss probability: 0.000000

packet corruption probability: 0.000000

average time between messages from sender's layer5: 5.000000

TRACE: 0

A\_output: bufferred packet (seq=1): aaaaaaaaaaaaaaaaaaa

send\_window: send packet (seq=1): aaaaaaaaaaaaaaaaaaa

B\_input: recv packet (seq=1): aaaaaaaaaaaaaaaaaaa

B\_input: send ACK (ack=1)

A\_output: bufferred packet (seq=2): bbbbbbbbbbbbbbbbbbb

send\_window: send packet (seq=2): bbbbbbbbbbbbbbbbbbb

A\_input: got ACK (ack=1)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=2): bbbbbbbbbbbbbbbbbbb

B\_input: send ACK (ack=2)

A\_output: bufferred packet (seq=3): ccccccccccccccccccc

send\_window: send packet (seq=3): ccccccccccccccccccc

A\_input: got ACK (ack=2)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=3): ccccccccccccccccccc

B\_input: send ACK (ack=3)

A\_timerinterrupt: resend packet (seq=3): ccccccccccccccccccc

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=4): ddddddddddddddddddd

send\_window: send packet (seq=4): ddddddddddddddddddd

A\_input: got ACK (ack=3)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=5): eeeeeeeeeeeeeeeeeee

send\_window: send packet (seq=5): eeeeeeeeeeeeeeeeeee

B\_input: not the expected seq. send NAK (ack=3)

A\_output: bufferred packet (seq=6): fffffffffffffffffff

send\_window: send packet (seq=6): fffffffffffffffffff

A\_input: got NAK (ack=3). drop.

B\_input: recv packet (seq=4): ddddddddddddddddddd

B\_input: send ACK (ack=4)

A\_timerinterrupt: resend packet (seq=4): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=5): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=6): fffffffffffffffffff

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=7): ggggggggggggggggggg

send\_window: send packet (seq=7): ggggggggggggggggggg

B\_input: recv packet (seq=5): eeeeeeeeeeeeeeeeeee

B\_input: send ACK (ack=5)

A\_output: bufferred packet (seq=8): hhhhhhhhhhhhhhhhhhh

send\_window: send packet (seq=8): hhhhhhhhhhhhhhhhhhh

B\_input: recv packet (seq=6): fffffffffffffffffff

B\_input: send ACK (ack=6)

A\_input: got ACK (ack=4)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=6)

A\_output: bufferred packet (seq=9): iiiiiiiiiiiiiiiiiii

send\_window: send packet (seq=9): iiiiiiiiiiiiiiiiiii

B\_input: not the expected seq. send NAK (ack=6)

B\_input: not the expected seq. send NAK (ack=6)

A\_timerinterrupt: resend packet (seq=5): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=6): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=7): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=7): ggggggggggggggggggg

B\_input: send ACK (ack=7)

A\_input: got ACK (ack=5)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=8): hhhhhhhhhhhhhhhhhhh

B\_input: send ACK (ack=8)

A\_output: bufferred packet (seq=10): jjjjjjjjjjjjjjjjjjj

send\_window: send packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_input: got ACK (ack=6)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=9): iiiiiiiiiiiiiiiiiii

B\_input: send ACK (ack=9)

A\_timerinterrupt: resend packet (seq=7): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=9)

A\_input: got NAK (ack=6). drop.

A\_input: got NAK (ack=6). drop.

B\_input: not the expected seq. send NAK (ack=9)

A\_input: got NAK (ack=6). drop.

B\_input: not the expected seq. send NAK (ack=9)

A\_timerinterrupt: resend packet (seq=7): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

A\_input: got ACK (ack=7)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_input: got ACK (ack=8)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=9)

B\_input: not the expected seq. send NAK (ack=9)

A\_input: got ACK (ack=9)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_input: got NAK (ack=9). drop.

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=9). drop.

B\_input: recv packet (seq=10): jjjjjjjjjjjjjjjjjjj

B\_input: send ACK (ack=10)

A\_input: got NAK (ack=9). drop.

B\_input: not the expected seq. send NAK (ack=10)

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got NAK (ack=9). drop.

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got NAK (ack=9). drop.

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got ACK (ack=10)

A\_input: stop timer

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got NAK (ack=10). drop.

A\_input: got NAK (ack=10). drop.

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got NAK (ack=10). drop.

A\_input: got NAK (ack=10). drop.

B\_input: not the expected seq. send NAK (ack=10)

B\_input: not the expected seq. send NAK (ack=10)

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got NAK (ack=10). drop.

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got NAK (ack=10). drop.

A\_input: got NAK (ack=10). drop.

A\_input: got NAK (ack=10). drop.

A\_input: got NAK (ack=10). drop.

A\_input: got NAK (ack=10). drop.

Simulator terminated at time 166.136475

after sending 10 msgs from layer5

### Messages = 50, packet loss probability = 0.3, packet corruption probability = 0, average time between messages = 10, trace = 0

Command: .\a.exe 50 0.3 0 10 0

Output:

the number of messages to simulate: 50

packet loss probability: 0.300000

packet corruption probability: 0.000000

average time between messages from sender's layer5: 10.000000

TRACE: 0

A\_output: bufferred packet (seq=1): aaaaaaaaaaaaaaaaaaa

send\_window: send packet (seq=1): aaaaaaaaaaaaaaaaaaa

B\_input: recv packet (seq=1): aaaaaaaaaaaaaaaaaaa

B\_input: send ACK (ack=1)

A\_input: got ACK (ack=1)

A\_input: stop timer

A\_output: bufferred packet (seq=2): bbbbbbbbbbbbbbbbbbb

send\_window: send packet (seq=2): bbbbbbbbbbbbbbbbbbb

B\_input: recv packet (seq=2): bbbbbbbbbbbbbbbbbbb

B\_input: send ACK (ack=2)

A\_input: got ACK (ack=2)

A\_input: stop timer

A\_output: bufferred packet (seq=3): ccccccccccccccccccc

send\_window: send packet (seq=3): ccccccccccccccccccc

B\_input: recv packet (seq=3): ccccccccccccccccccc

B\_input: send ACK (ack=3)

A\_input: got ACK (ack=3)

A\_input: stop timer

A\_output: bufferred packet (seq=4): ddddddddddddddddddd

send\_window: send packet (seq=4): ddddddddddddddddddd

B\_input: recv packet (seq=4): ddddddddddddddddddd

B\_input: send ACK (ack=4)

A\_input: got ACK (ack=4)

A\_input: stop timer

A\_output: bufferred packet (seq=5): eeeeeeeeeeeeeeeeeee

send\_window: send packet (seq=5): eeeeeeeeeeeeeeeeeee

B\_input: recv packet (seq=5): eeeeeeeeeeeeeeeeeee

B\_input: send ACK (ack=5)

A\_output: bufferred packet (seq=6): fffffffffffffffffff

send\_window: send packet (seq=6): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=5): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=6): fffffffffffffffffff

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=6): fffffffffffffffffff

B\_input: send ACK (ack=6)

B\_input: not the expected seq. send NAK (ack=6)

A\_output: bufferred packet (seq=7): ggggggggggggggggggg

send\_window: send packet (seq=7): ggggggggggggggggggg

A\_input: got ACK (ack=6)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=7): ggggggggggggggggggg

B\_input: send ACK (ack=7)

A\_input: got NAK (ack=6). drop.

A\_timerinterrupt: resend packet (seq=7): ggggggggggggggggggg

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=8): hhhhhhhhhhhhhhhhhhh

send\_window: send packet (seq=8): hhhhhhhhhhhhhhhhhhh

B\_input: not the expected seq. send NAK (ack=7)

A\_input: got ACK (ack=7)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=8): hhhhhhhhhhhhhhhhhhh

B\_input: send ACK (ack=8)

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=9): iiiiiiiiiiiiiiiiiii

send\_window: send packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_input: got ACK (ack=8)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=8)

A\_input: got NAK (ack=8). drop.

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=9): iiiiiiiiiiiiiiiiiii

B\_input: send ACK (ack=9)

A\_output: bufferred packet (seq=10): jjjjjjjjjjjjjjjjjjj

send\_window: send packet (seq=10): jjjjjjjjjjjjjjjjjjj

B\_input: not the expected seq. send NAK (ack=9)

B\_input: recv packet (seq=10): jjjjjjjjjjjjjjjjjjj

B\_input: send ACK (ack=10)

A\_output: bufferred packet (seq=11): kkkkkkkkkkkkkkkkkkk

send\_window: send packet (seq=11): kkkkkkkkkkkkkkkkkkk

B\_input: recv packet (seq=11): kkkkkkkkkkkkkkkkkkk

B\_input: send ACK (ack=11)

A\_output: bufferred packet (seq=12): lllllllllllllllllll

send\_window: send packet (seq=12): lllllllllllllllllll

A\_input: got ACK (ack=9)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=13): mmmmmmmmmmmmmmmmmmm

send\_window: send packet (seq=13): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=11): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=12): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=13): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=12): lllllllllllllllllll

B\_input: send ACK (ack=12)

B\_input: not the expected seq. send NAK (ack=12)

A\_input: got ACK (ack=12)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=12)

A\_output: bufferred packet (seq=14): nnnnnnnnnnnnnnnnnnn

send\_window: send packet (seq=14): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=13): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=14): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=13): mmmmmmmmmmmmmmmmmmm

B\_input: send ACK (ack=13)

A\_input: got NAK (ack=12). drop.

B\_input: recv packet (seq=14): nnnnnnnnnnnnnnnnnnn

B\_input: send ACK (ack=14)

B\_input: not the expected seq. send NAK (ack=14)

A\_output: bufferred packet (seq=15): ooooooooooooooooooo

send\_window: send packet (seq=15): ooooooooooooooooooo

A\_output: bufferred packet (seq=16): ppppppppppppppppppp

send\_window: send packet (seq=16): ppppppppppppppppppp

A\_input: got ACK (ack=14)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_timerinterrupt: resend packet (seq=15): ooooooooooooooooooo

A\_timerinterrupt: resend packet (seq=16): ppppppppppppppppppp

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=15): ooooooooooooooooooo

B\_input: send ACK (ack=15)

A\_input: got ACK (ack=15)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=16): ppppppppppppppppppp

B\_input: send ACK (ack=16)

A\_input: got ACK (ack=16)

A\_input: stop timer

B\_input: not the expected seq. send NAK (ack=16)

A\_output: bufferred packet (seq=17): qqqqqqqqqqqqqqqqqqq

send\_window: send packet (seq=17): qqqqqqqqqqqqqqqqqqq

A\_input: got NAK (ack=16). drop.

B\_input: recv packet (seq=17): qqqqqqqqqqqqqqqqqqq

B\_input: send ACK (ack=17)

A\_timerinterrupt: resend packet (seq=17): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=18): rrrrrrrrrrrrrrrrrrr

send\_window: send packet (seq=18): rrrrrrrrrrrrrrrrrrr

A\_output: bufferred packet (seq=19): sssssssssssssssssss

send\_window: send packet (seq=19): sssssssssssssssssss

B\_input: not the expected seq. send NAK (ack=17)

A\_output: bufferred packet (seq=20): ttttttttttttttttttt

send\_window: send packet (seq=20): ttttttttttttttttttt

B\_input: recv packet (seq=18): rrrrrrrrrrrrrrrrrrr

B\_input: send ACK (ack=18)

A\_timerinterrupt: resend packet (seq=17): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=18): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=19): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=20): ttttttttttttttttttt

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=21): uuuuuuuuuuuuuuuuuuu

send\_window: send packet (seq=21): uuuuuuuuuuuuuuuuuuu

B\_input: recv packet (seq=19): sssssssssssssssssss

B\_input: send ACK (ack=19)

A\_input: got ACK (ack=17)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=19)

A\_input: got ACK (ack=18)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=22): vvvvvvvvvvvvvvvvvvv

send\_window: send packet (seq=22): vvvvvvvvvvvvvvvvvvv

B\_input: not the expected seq. send NAK (ack=19)

A\_timerinterrupt: resend packet (seq=19): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=20): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=21): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=22): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=19)

A\_input: got ACK (ack=19)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=20): ttttttttttttttttttt

B\_input: send ACK (ack=20)

A\_output: bufferred packet (seq=23): wwwwwwwwwwwwwwwwwww

send\_window: send packet (seq=23): wwwwwwwwwwwwwwwwwww

B\_input: recv packet (seq=21): uuuuuuuuuuuuuuuuuuu

B\_input: send ACK (ack=21)

A\_input: got ACK (ack=20)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=24): xxxxxxxxxxxxxxxxxxx

send\_window: send packet (seq=24): xxxxxxxxxxxxxxxxxxx

B\_input: recv packet (seq=22): vvvvvvvvvvvvvvvvvvv

B\_input: send ACK (ack=22)

A\_output: bufferred packet (seq=25): yyyyyyyyyyyyyyyyyyy

send\_window: send packet (seq=25): yyyyyyyyyyyyyyyyyyy

A\_timerinterrupt: resend packet (seq=21): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=22): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=23): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyy

A\_timerinterrupt: timer + 15.000000

A\_input: got ACK (ack=21)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_input: got ACK (ack=22)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=22)

A\_input: got NAK (ack=22). drop.

A\_output: bufferred packet (seq=26): zzzzzzzzzzzzzzzzzzz

send\_window: send packet (seq=26): zzzzzzzzzzzzzzzzzzz

A\_timerinterrupt: resend packet (seq=23): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyy

A\_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzz

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=22)

B\_input: not the expected seq. send NAK (ack=22)

A\_output: bufferred packet (seq=27): aaaaaaaaaaaaaaaaaaa

send\_window: send packet (seq=27): aaaaaaaaaaaaaaaaaaa

A\_input: got NAK (ack=22). drop.

B\_input: not the expected seq. send NAK (ack=22)

B\_input: recv packet (seq=23): wwwwwwwwwwwwwwwwwww

B\_input: send ACK (ack=23)

B\_input: not the expected seq. send NAK (ack=23)

A\_timerinterrupt: resend packet (seq=23): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyy

A\_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzz

A\_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=23)

A\_input: got ACK (ack=23)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=28): bbbbbbbbbbbbbbbbbbb

send\_window: send packet (seq=28): bbbbbbbbbbbbbbbbbbb

B\_input: not the expected seq. send NAK (ack=23)

B\_input: not the expected seq. send NAK (ack=23)

A\_output: bufferred packet (seq=29): ccccccccccccccccccc

send\_window: send packet (seq=29): ccccccccccccccccccc

A\_input: got NAK (ack=23). drop.

A\_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyy

A\_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzz

A\_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A\_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A\_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=23)

B\_input: recv packet (seq=24): xxxxxxxxxxxxxxxxxxx

B\_input: send ACK (ack=24)

A\_input: got NAK (ack=23). drop.

B\_input: not the expected seq. send NAK (ack=24)

A\_output: bufferred packet (seq=30): ddddddddddddddddddd

send\_window: send packet (seq=30): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=24): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyy

A\_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzz

A\_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A\_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A\_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A\_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=24)

A\_input: got ACK (ack=24)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=24)

A\_input: got NAK (ack=24). drop.

A\_input: got NAK (ack=24). drop.

B\_input: recv packet (seq=25): yyyyyyyyyyyyyyyyyyy

B\_input: send ACK (ack=25)

A\_output: bufferred packet (seq=31): eeeeeeeeeeeeeeeeeee

send\_window: send packet (seq=31): eeeeeeeeeeeeeeeeeee

A\_input: got NAK (ack=24). drop.

A\_timerinterrupt: resend packet (seq=25): yyyyyyyyyyyyyyyyyyy

A\_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzz

A\_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A\_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A\_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A\_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=26): zzzzzzzzzzzzzzzzzzz

B\_input: send ACK (ack=26)

A\_input: got ACK (ack=25)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=26)

A\_output: bufferred packet (seq=32): fffffffffffffffffff

send\_window: send packet (seq=32): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=26): zzzzzzzzzzzzzzzzzzz

A\_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A\_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A\_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A\_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=32): fffffffffffffffffff

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=26)

A\_input: got ACK (ack=26)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_input: got NAK (ack=26). drop.

B\_input: not the expected seq. send NAK (ack=26)

B\_input: not the expected seq. send NAK (ack=26)

A\_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A\_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A\_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A\_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=32): fffffffffffffffffff

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=33): ggggggggggggggggggg

send\_window: send packet (seq=33): ggggggggggggggggggg

B\_input: not the expected seq. send NAK (ack=26)

A\_input: got NAK (ack=26). drop.

B\_input: recv packet (seq=27): aaaaaaaaaaaaaaaaaaa

B\_input: send ACK (ack=27)

A\_input: got NAK (ack=26). drop.

B\_input: not the expected seq. send NAK (ack=27)

A\_output: bufferred packet (seq=34): hhhhhhhhhhhhhhhhhhh

send\_window: send packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=27): aaaaaaaaaaaaaaaaaaa

A\_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A\_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A\_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=32): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=27)

B\_input: not the expected seq. send NAK (ack=27)

A\_output: bufferred packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_output: bufferred packet (seq=36): jjjjjjjjjjjjjjjjjjj

B\_input: not the expected seq. send NAK (ack=27)

A\_output: bufferred packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_input: got ACK (ack=27)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_timerinterrupt: resend packet (seq=28): bbbbbbbbbbbbbbbbbbb

A\_timerinterrupt: resend packet (seq=29): ccccccccccccccccccc

A\_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=32): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=28): bbbbbbbbbbbbbbbbbbb

B\_input: send ACK (ack=28)

A\_output: bufferred packet (seq=38): lllllllllllllllllll

send\_window: send packet (seq=35): iiiiiiiiiiiiiiiiiii

B\_input: recv packet (seq=29): ccccccccccccccccccc

B\_input: send ACK (ack=29)

A\_input: got ACK (ack=28)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=39): mmmmmmmmmmmmmmmmmmm

send\_window: send packet (seq=36): jjjjjjjjjjjjjjjjjjj

B\_input: recv packet (seq=30): ddddddddddddddddddd

B\_input: send ACK (ack=30)

A\_input: got ACK (ack=29)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_timerinterrupt: resend packet (seq=30): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=31): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=32): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

A\_input: got ACK (ack=30)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=31): eeeeeeeeeeeeeeeeeee

B\_input: send ACK (ack=31)

A\_input: got ACK (ack=31)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=40): nnnnnnnnnnnnnnnnnnn

send\_window: send packet (seq=37): kkkkkkkkkkkkkkkkkkk

send\_window: send packet (seq=38): lllllllllllllllllll

send\_window: send packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=32): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=31)

B\_input: not the expected seq. send NAK (ack=31)

A\_input: got NAK (ack=31). drop.

A\_input: got NAK (ack=31). drop.

B\_input: not the expected seq. send NAK (ack=31)

A\_output: bufferred packet (seq=41): ooooooooooooooooooo

B\_input: not the expected seq. send NAK (ack=31)

B\_input: recv packet (seq=32): fffffffffffffffffff

B\_input: send ACK (ack=32)

A\_timerinterrupt: resend packet (seq=32): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=31). drop.

B\_input: not the expected seq. send NAK (ack=32)

B\_input: not the expected seq. send NAK (ack=32)

A\_input: got ACK (ack=32)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=42): ppppppppppppppppppp

send\_window: send packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_input: got NAK (ack=32). drop.

A\_input: got NAK (ack=32). drop.

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=32)

A\_output: bufferred packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_input: got NAK (ack=32). drop.

B\_input: not the expected seq. send NAK (ack=32)

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=32)

A\_input: got NAK (ack=32). drop.

A\_output: bufferred packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_output: bufferred packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=32)

B\_input: not the expected seq. send NAK (ack=32)

B\_input: not the expected seq. send NAK (ack=32)

A\_input: got NAK (ack=32). drop.

B\_input: not the expected seq. send NAK (ack=32)

A\_output: bufferred packet (seq=46): ttttttttttttttttttt

A\_input: got NAK (ack=32). drop.

A\_input: got NAK (ack=32). drop.

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=32)

B\_input: not the expected seq. send NAK (ack=32)

A\_input: got NAK (ack=32). drop.

B\_input: not the expected seq. send NAK (ack=32)

A\_output: bufferred packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=32). drop.

B\_input: not the expected seq. send NAK (ack=32)

B\_input: not the expected seq. send NAK (ack=32)

A\_input: got NAK (ack=32). drop.

B\_input: not the expected seq. send NAK (ack=32)

A\_input: got NAK (ack=32). drop.

A\_timerinterrupt: resend packet (seq=33): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=33): ggggggggggggggggggg

B\_input: send ACK (ack=33)

A\_output: bufferred packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_input: got ACK (ack=33)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=33)

A\_output: bufferred packet (seq=49): wwwwwwwwwwwwwwwwwww

send\_window: send packet (seq=41): ooooooooooooooooooo

B\_input: not the expected seq. send NAK (ack=33)

A\_input: got NAK (ack=33). drop.

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=33). drop.

B\_input: not the expected seq. send NAK (ack=33)

A\_output: bufferred packet (seq=50): xxxxxxxxxxxxxxxxxxx

B\_input: recv packet (seq=34): hhhhhhhhhhhhhhhhhhh

B\_input: send ACK (ack=34)

A\_timerinterrupt: resend packet (seq=34): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got ACK (ack=34)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

B\_input: not the expected seq. send NAK (ack=34)

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=34). drop.

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=34)

A\_input: got NAK (ack=34). drop.

B\_input: not the expected seq. send NAK (ack=34)

B\_input: not the expected seq. send NAK (ack=34)

A\_timerinterrupt: resend packet (seq=35): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=34). drop.

B\_input: recv packet (seq=35): iiiiiiiiiiiiiiiiiii

B\_input: send ACK (ack=35)

A\_input: got ACK (ack=35)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=36): jjjjjjjjjjjjjjjjjjj

B\_input: send ACK (ack=36)

B\_input: recv packet (seq=37): kkkkkkkkkkkkkkkkkkk

B\_input: send ACK (ack=37)

A\_timerinterrupt: resend packet (seq=36): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got ACK (ack=36)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=38): lllllllllllllllllll

B\_input: send ACK (ack=38)

B\_input: recv packet (seq=39): mmmmmmmmmmmmmmmmmmm

B\_input: send ACK (ack=39)

A\_timerinterrupt: resend packet (seq=37): kkkkkkkkkkkkkkkkkkk

A\_timerinterrupt: resend packet (seq=38): lllllllllllllllllll

A\_timerinterrupt: resend packet (seq=39): mmmmmmmmmmmmmmmmmmm

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got ACK (ack=37)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_input: got ACK (ack=38)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=40): nnnnnnnnnnnnnnnnnnn

B\_input: send ACK (ack=40)

A\_input: got ACK (ack=39)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=40)

A\_timerinterrupt: resend packet (seq=40): nnnnnnnnnnnnnnnnnnn

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got ACK (ack=40)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=40)

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

A\_input: got NAK (ack=40). drop.

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

B\_input: not the expected seq. send NAK (ack=40)

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

B\_input: not the expected seq. send NAK (ack=40)

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=40). drop.

B\_input: not the expected seq. send NAK (ack=40)

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

B\_input: not the expected seq. send NAK (ack=40)

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=40)

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=40). drop.

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

B\_input: not the expected seq. send NAK (ack=40)

A\_input: got NAK (ack=40). drop.

B\_input: recv packet (seq=41): ooooooooooooooooooo

B\_input: send ACK (ack=41)

A\_input: got NAK (ack=40). drop.

A\_timerinterrupt: resend packet (seq=41): ooooooooooooooooooo

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got ACK (ack=41)

A\_input: stop timer

send\_window: send packet (seq=42): ppppppppppppppppppp

send\_window: send packet (seq=43): qqqqqqqqqqqqqqqqqqq

send\_window: send packet (seq=44): rrrrrrrrrrrrrrrrrrr

send\_window: send packet (seq=45): sssssssssssssssssss

send\_window: send packet (seq=46): ttttttttttttttttttt

send\_window: send packet (seq=47): uuuuuuuuuuuuuuuuuuu

send\_window: send packet (seq=48): vvvvvvvvvvvvvvvvvvv

send\_window: send packet (seq=49): wwwwwwwwwwwwwwwwwww

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

A\_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

A\_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

A\_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

A\_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

A\_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

A\_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

A\_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=41)

A\_input: got NAK (ack=41). drop.

B\_input: not the expected seq. send NAK (ack=41)

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A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

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A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

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A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

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A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

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A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

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A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

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A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

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A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

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A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

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A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=41). drop.

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A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=41). drop.

B\_input: recv packet (seq=42): ppppppppppppppppppp

B\_input: send ACK (ack=42)

A\_timerinterrupt: resend packet (seq=42): ppppppppppppppppppp

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=42)

A\_input: got ACK (ack=42)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=42)

B\_input: not the expected seq. send NAK (ack=42)

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=42)

A\_input: got NAK (ack=42). drop.

A\_input: got NAK (ack=42). drop.

B\_input: recv packet (seq=43): qqqqqqqqqqqqqqqqqqq

B\_input: send ACK (ack=43)

B\_input: recv packet (seq=44): rrrrrrrrrrrrrrrrrrr

B\_input: send ACK (ack=44)

A\_timerinterrupt: resend packet (seq=43): qqqqqqqqqqqqqqqqqqq

A\_timerinterrupt: resend packet (seq=44): rrrrrrrrrrrrrrrrrrr

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=44)

A\_input: got ACK (ack=43)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_input: got ACK (ack=44)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=44)

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=44)

A\_input: got NAK (ack=44). drop.

B\_input: not the expected seq. send NAK (ack=44)

B\_input: not the expected seq. send NAK (ack=44)

A\_timerinterrupt: resend packet (seq=45): sssssssssssssssssss

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=44). drop.

B\_input: recv packet (seq=45): sssssssssssssssssss

B\_input: send ACK (ack=45)

A\_input: got NAK (ack=44). drop.

A\_input: got ACK (ack=45)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=46): ttttttttttttttttttt

B\_input: send ACK (ack=46)

B\_input: recv packet (seq=47): uuuuuuuuuuuuuuuuuuu

B\_input: send ACK (ack=47)

A\_timerinterrupt: resend packet (seq=46): ttttttttttttttttttt

A\_timerinterrupt: resend packet (seq=47): uuuuuuuuuuuuuuuuuuu

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: recv packet (seq=48): vvvvvvvvvvvvvvvvvvv

B\_input: send ACK (ack=48)

A\_input: got ACK (ack=46)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_input: got ACK (ack=47)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: recv packet (seq=49): wwwwwwwwwwwwwwwwwww

B\_input: send ACK (ack=49)

A\_timerinterrupt: resend packet (seq=48): vvvvvvvvvvvvvvvvvvv

A\_timerinterrupt: resend packet (seq=49): wwwwwwwwwwwwwwwwwww

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=49)

A\_input: got ACK (ack=48)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=49)

A\_input: got ACK (ack=49)

A\_input: stop timer

send\_window: send packet (seq=50): xxxxxxxxxxxxxxxxxxx

B\_input: not the expected seq. send NAK (ack=49)

B\_input: not the expected seq. send NAK (ack=49)

A\_input: got NAK (ack=49). drop.

B\_input: not the expected seq. send NAK (ack=49)

A\_input: got NAK (ack=49). drop.

A\_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=49). drop.

B\_input: not the expected seq. send NAK (ack=49)

B\_input: not the expected seq. send NAK (ack=49)

A\_input: got NAK (ack=49). drop.

A\_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: timer + 15.000000

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A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=49)

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A\_input: got NAK (ack=49). drop.

A\_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=49). drop.

B\_input: recv packet (seq=50): xxxxxxxxxxxxxxxxxxx

B\_input: send ACK (ack=50)

B\_input: not the expected seq. send NAK (ack=50)

A\_timerinterrupt: resend packet (seq=50): xxxxxxxxxxxxxxxxxxx

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=50)

B\_input: not the expected seq. send NAK (ack=50)

A\_input: got ACK (ack=50)

A\_input: stop timer

B\_input: not the expected seq. send NAK (ack=50)

A\_input: got NAK (ack=50). drop.

B\_input: not the expected seq. send NAK (ack=50)

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B\_input: not the expected seq. send NAK (ack=50)

A\_input: got NAK (ack=50). drop.

B\_input: not the expected seq. send NAK (ack=50)

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Simulator terminated at time 2516.320313

after sending 50 msgs from layer5

### Messages = 10, packet loss probability = 0.0, packet corruption probability = 0.3, average time between messages = 10, trace = 0

Command: .\a.exe 10 0 0.3 10 0

Output:

the number of messages to simulate: 10

packet loss probability: 0.000000

packet corruption probability: 0.300000

average time between messages from sender's layer5: 10.000000

TRACE: 0

A\_output: bufferred packet (seq=1): aaaaaaaaaaaaaaaaaaa

send\_window: send packet (seq=1): aaaaaaaaaaaaaaaaaaa

B\_input: recv packet (seq=1): aaaaaaaaaaaaaaaaaaa

B\_input: send ACK (ack=1)

A\_input: got ACK (ack=1)

A\_input: stop timer

A\_output: bufferred packet (seq=2): bbbbbbbbbbbbbbbbbbb

send\_window: send packet (seq=2): bbbbbbbbbbbbbbbbbbb

B\_input: recv packet (seq=2): bbbbbbbbbbbbbbbbbbb

B\_input: send ACK (ack=2)

A\_input: got ACK (ack=2)

A\_input: stop timer

A\_output: bufferred packet (seq=3): ccccccccccccccccccc

send\_window: send packet (seq=3): ccccccccccccccccccc

B\_input: recv packet (seq=3): ccccccccccccccccccc

B\_input: send ACK (ack=3)

A\_input: got ACK (ack=3)

A\_input: stop timer

A\_output: bufferred packet (seq=4): ddddddddddddddddddd

send\_window: send packet (seq=4): ddddddddddddddddddd

B\_input: packet corrupted. send NAK (ack=3)

A\_input: got NAK (ack=3). drop.

A\_timerinterrupt: resend packet (seq=4): ddddddddddddddddddd

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=5): eeeeeeeeeeeeeeeeeee

send\_window: send packet (seq=5): eeeeeeeeeeeeeeeeeee

A\_output: bufferred packet (seq=6): fffffffffffffffffff

send\_window: send packet (seq=6): fffffffffffffffffff

B\_input: recv packet (seq=4): ddddddddddddddddddd

B\_input: send ACK (ack=4)

A\_input: packet corrupted. drop.

A\_output: bufferred packet (seq=7): ggggggggggggggggggg

send\_window: send packet (seq=7): ggggggggggggggggggg

B\_input: recv packet (seq=5): eeeeeeeeeeeeeeeeeee

B\_input: send ACK (ack=5)

A\_timerinterrupt: resend packet (seq=4): ddddddddddddddddddd

A\_timerinterrupt: resend packet (seq=5): eeeeeeeeeeeeeeeeeee

A\_timerinterrupt: resend packet (seq=6): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=7): ggggggggggggggggggg

A\_timerinterrupt: timer + 15.000000

B\_input: packet corrupted. send NAK (ack=5)

A\_input: got ACK (ack=5)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=5)

A\_input: got NAK (ack=5). drop.

B\_input: not the expected seq. send NAK (ack=5)

A\_output: bufferred packet (seq=8): hhhhhhhhhhhhhhhhhhh

send\_window: send packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=6): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=7): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: timer + 15.000000

A\_output: bufferred packet (seq=9): iiiiiiiiiiiiiiiiiii

send\_window: send packet (seq=9): iiiiiiiiiiiiiiiiiii

B\_input: not the expected seq. send NAK (ack=5)

A\_input: got NAK (ack=5). drop.

B\_input: recv packet (seq=6): fffffffffffffffffff

B\_input: send ACK (ack=6)

A\_input: got NAK (ack=5). drop.

B\_input: recv packet (seq=7): ggggggggggggggggggg

B\_input: send ACK (ack=7)

A\_timerinterrupt: resend packet (seq=6): fffffffffffffffffff

A\_timerinterrupt: resend packet (seq=7): ggggggggggggggggggg

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=5). drop.

A\_input: got ACK (ack=6)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_output: bufferred packet (seq=10): jjjjjjjjjjjjjjjjjjj

send\_window: send packet (seq=10): jjjjjjjjjjjjjjjjjjj

B\_input: packet corrupted. send NAK (ack=7)

B\_input: not the expected seq. send NAK (ack=7)

A\_input: got ACK (ack=7)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=7)

B\_input: packet corrupted. send NAK (ack=7)

A\_input: packet corrupted. drop.

A\_input: got NAK (ack=7). drop.

B\_input: packet corrupted. send NAK (ack=7)

B\_input: packet corrupted. send NAK (ack=7)

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=7). drop.

B\_input: not the expected seq. send NAK (ack=7)

A\_input: packet corrupted. drop.

B\_input: packet corrupted. send NAK (ack=7)

A\_input: got NAK (ack=7). drop.

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

A\_input: packet corrupted. drop.

A\_input: got NAK (ack=7). drop.

B\_input: not the expected seq. send NAK (ack=7)

B\_input: packet corrupted. send NAK (ack=7)

B\_input: recv packet (seq=8): hhhhhhhhhhhhhhhhhhh

B\_input: send ACK (ack=8)

A\_input: packet corrupted. drop.

B\_input: recv packet (seq=9): iiiiiiiiiiiiiiiiiii

B\_input: send ACK (ack=9)

B\_input: recv packet (seq=10): jjjjjjjjjjjjjjjjjjj

B\_input: send ACK (ack=10)

A\_input: got NAK (ack=7). drop.

A\_timerinterrupt: resend packet (seq=8): hhhhhhhhhhhhhhhhhhh

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

A\_input: got NAK (ack=7). drop.

A\_input: got ACK (ack=8)

Warning: attempt to start a timer that is already started

A\_input: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=10)

A\_input: packet corrupted. drop.

B\_input: not the expected seq. send NAK (ack=10)

A\_timerinterrupt: resend packet (seq=9): iiiiiiiiiiiiiiiiiii

A\_timerinterrupt: resend packet (seq=10): jjjjjjjjjjjjjjjjjjj

A\_timerinterrupt: timer + 15.000000

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got ACK (ack=10)

A\_input: stop timer

A\_input: got NAK (ack=10). drop.

B\_input: packet corrupted. send NAK (ack=10)

A\_input: got NAK (ack=10). drop.

B\_input: not the expected seq. send NAK (ack=10)

B\_input: packet corrupted. send NAK (ack=10)

A\_input: got NAK (ack=10). drop.

B\_input: not the expected seq. send NAK (ack=10)

A\_input: packet corrupted. drop.

B\_input: not the expected seq. send NAK (ack=10)

A\_input: got NAK (ack=10). drop.

B\_input: not the expected seq. send NAK (ack=10)

B\_input: packet corrupted. send NAK (ack=10)

B\_input: packet corrupted. send NAK (ack=10)

A\_input: packet corrupted. drop.

A\_input: packet corrupted. drop.

A\_input: packet corrupted. drop.

A\_input: got NAK (ack=10). drop.

A\_input: got NAK (ack=10). drop.

A\_input: got NAK (ack=10). drop.

Simulator terminated at time 227.009552

after sending 10 msgs from layer5