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Written in python (python3 used)

#### 1) How I implemented the STP protocol

Sender	Receiver
Three way Handshake (syn synAck ack)	Three way handshake (syn synAck ack)
Four seg termination (fin ack fin ack)(sender	Four seg termination (fin ack fin ack)
initiated)	
Single timer for timeout operations (and	Cummulative acknowledgments
respective RTO calculations)	
PLD module	Buffer out of order packets
Timeout retransmissions	Handle corrupted packets (with checksum)
Fast retransmit	Handle duplicate packets
MWS sliding window (multiple segments being	Immediate acknowledgment (not delayed as
sent and received at once (thread	per specs)
implementation))	
STP header with needed fields (explained	
bellow)	

As far as I am aware all the needed features have been successfully implemented.

My STP works by having 2 clients (i.e the sender file and receiver file).

Within the sender file is three classes, PLD, Packet and Sender as well as a 'main' function. These classes hold all the useful and relevant implementation for their specific areas. Initially all the variables needed are initialised as well as a main sender and pld class. The main establishes a connection with the receiver by initiating and completing the 'three way handshake'. At the end of this process it starts three different threads, a sending thread, a receiving thread, and a thread that handles any delayed or re-ordered packets. The main while loop essentially acts as the fourth 'thread' that handles most of the processing. I thought this would be the fastest and easiest way to make sure no packets were lost.

The sender thread/loop is constantly trying to send the next possible packet. A packet is possible to be sent if the number unacknowledged is smaller than the window size. If it is, then the necessary payload is grabbed (through the sender function that grabs the necessary bites (max MSS) from the sendfile that had previously been staged), the packet is staged for sending and then pushed through the pld module. If it passes through the pld module without anything happening it is successfully sent and it goes back to the beginning of the loop. Otherwise the specific pld error is caused. Note, whilst the pld module is integrated into main and sender, it uses no information from the sender, i.e it is completely independent of the sender as specified in the specs and could essentially be separated into its own file if needed.

The receiving thread/loop is constantly trying to receive data using the timeout (RTO) estimation, by setting the socket.settimeout to the RTO value. If at any point a timeout occurs, an exception is

chucked and handled by retrasmiting the oldest unacknowledged packet. This packet is re-sent through the pld module within the receiving loop. If a packet is timed-out and re-sent it is flagged as being unable to be used to calculate RTO. If a packet is successfully received it is appended to a queue, which is handled by the main function.

The last thread is used to handle any delayed or re-ordered packets. Any packet that is delayed or re-ordered is flagged by the system. For Delayed packets, it is sent to a deque, and the thread constantly pops the packets in the deque, and calculates if it is time to send them. If it is, it is sent immediately, and if not it is added to the back of the deck. The re-ordered packet is constantly checked to determine if the maxOrder count has been reached (this count is a global count incremented everytime a packet is sent), and when it is reached the re-ordered packet is sent, and a flag is signalled to tell the system that a new packet is now allowed to be re-ordered (count is set back to zero).

The 'main' function is used to do the calculations for the sequence number and acknowledgment received and compare it to the acknowledgment expected. Every loop it pops a packet of the received queue (if it isn't empty), and does the needed calculations for timeout (if applicable) (min timeout value set to 145ms as per the RFC6298 reccomendation), cumulative ack calculation if the ack is greater than sendbase(to decrement number unacknowledged for the sender thread to have max packets (equal to window size)), and also checks if all the data has been successfully sent and acked, so it can start the finishing sequence. If the ack is equal to the sendbase, then the fast retransmission counter is incremented, and if it equals three then the send base packet is retransmitted (pending pld)(fast retransmission count is set back to zero if a timeout occurs). Once all the data has been received the finishing sequence is initiated (fin, ack, fin, ack).

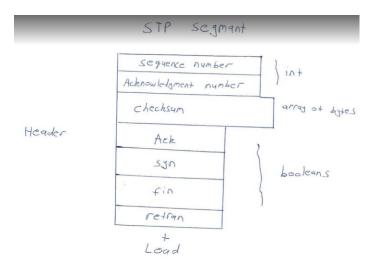
The receiver on the other hand runs with one thread and a main function. The thread is extremely simple, only waiting for a packet to arrive and then adding it to a Deque for the main function to deal with. The main function initialises all the needed variables and then completes the 3 way handshake with the sender. A packet is popped of the Deque if it is not empty and handled in the following way (the next steps are all run as elif statemnts i.e only 1 will occur). First, if the data is corrupted (checked in comparison with the checksum) it is discarded without sending any ack. Next, if the expected Sequence number is received, the data is immediately appended to the copy file, and the necessary stats, counters and expected numbers are incremented. During this step, if the buffer is not empty (buffer holding packets that were received out of order) the receiver attempts to clear the buffer by checking if the next expected packet is in the buffer, and if it is, its payload is appended and the necessary stats are updated. This loop continues until the buffer is cleared, or the next expected packet is not in the buffer. The cumulative ack (or regular ack if nothing was found in the buffer) is now sent for the next expected packet (this is an immediate ack).

Next, the packet is checked to see if it contains a fin flag, and if so the finishing sequence is initiated. Next, the packet is checked to see if it is a duplicate packet. This is needed because otherwise duplicate packets would be added to the buffer, and also so the log file will be accurate. Lastly, if nothing has run then the else statement is activated, i.e this should only happen when a packet has arrived out of order (a packet arrives with seqNum > expectedSeqNum). A dupe ack is sent (with expectedSeqNum as ackNum) and the out of order packet is added to the buffer (this buffer is handled when an expected seqNum is received).

Through all the steps there are multiple flags that tell both the receiver and Sender what stage of the process they are in. For the Sender these include, noConnection, synSent, connected, finSent, connectionFinished. For the Receiver noConnection, synSent, connected, fin, connectionFinished.

These steps from both the sender and receiver make sure that the packet is reliably received in the shortest possible steps.

#### 2) STP Header



- Sequence Number (int) the byte stream number (from the send sendfile) of the first byte in the packets load
- Acknowledgement number (int) the next expected byte (sequence number)
- Checksum (array of bytes) Used to check the data hasn't been corrupted
- Ack (boolean) Shows if the packet is an Acknowledgment
- Syn (boolean) shows if the packet is a synchronise packet (for the initial three way handshake)
- Fin (boolean) shows if the packet is for connection termination (a finishing segment (part of four way finish))
- Retran (boolean) shows if the packet is a retransmission (i.e has previously timed out or been fast retransmitted)

#### 3) Trade offs considered and Made, extensions

In my Sender file I decided to make several different threads, instead of just having one thread. Due to concurrency issues this occasionally increments different counters at the same time, or in a slightly different order. However I feel like the speed and ability to have the sending function and receiving function operating concurrently outweighs other issues that can sometimes be caused (any issues are still correctly handled).

For my PLD module, as discussed above it is not held in a separate file, but rather is run just before any packet (bar packets already delayed and re-ordered) are about to be sent. This is ok when run by the sending thread, however it means that the receiving thread (and main thread for fast retransmit)

becomes a fair bit slower when an exception occurs (or three dup ack's) and it then has to run the pld module before retransmitting. Whilst it is running this pld module it cannot receive other packets causing the system to slow down. To improve this I would completely separate the pld module from the sender, sending any packet to be sent to the receiver to the pld, who would then have the responsibility of on-sending it to the receiver address if no errors occurred (or creating the error if needed). However this would only improve the speed of the sender, and not in any way affect the implementation (i.e it is simple refactoring).

For the timeout calculation I believe that the single timer per window method for RTT calculations and thus RTO calculation are not very accurate or responsive, and a better method would be to track each packet sent and calculate RTT and RTO every time a packet is successfully received without retransmission or errors. To improve this I would have a deque keeping track of all the send times per packet, and calculate the RTO on each successful return.

On the Receiver side, I have to look through the buffer and constantly pop packets of the deque to figure out if it is the needed packet, and if not then I append it back on to the deque and check the next packet until I am back at the beginning. I feel an extension would be if I created an ordered buffer, which when adding packets would automatically make sure that the buffer was ordered by sequence numbers, so that popping the correct packet off would be easier.

#### 4) Snippets borrowed

https://pymotw.com/2/socket/udp.html used for implementing my socket code (sending, receiving)

Code snippets for receiving ack from the class textbook (page 248 chapter 3)

Python3 docs examples

https://stackoverflow.com/ (small snippets on specific queries)

Less than 1% of my code would have been taken from open resources (probably less)

#### Part 5

a)

Startup, 1, 101, 301, 401,501,601, 201, 701, 801, 901, 1001, 1101, 1201, 1301, 1401, 1501, 1601, 1701, 1801, 1901, 2101, 2201, 2302, 2401, 2001, 2501, 2601, 2901, 3001, 2701, 29801, fin received

For a pDrop of 0.1, dropping occurred at packet 201, 2001, 2701 and 2801. As seen in the appendix, for the first dropped packet at the receiver, packet 301, 401, 501 and 601 are all received before 201 is received. This makes sense as three dup ack's are sent (401,501,601 all send ack 201) causing 201 to be retransmitted and the normal sequence to resume. At the end packet 2701 and 2801 are dropped back to back, and because there is not enough data being sent to cause a fast retransmit, a timeout occurs and both packets are re-sent.

For a pDrop of 0.3 way more packets are dropped (24) causing a much more disordered package arrival at the receiver (see appendix). It is critical to note that in the second experiment much more timeouts occurred compared to fast retransmits, and this is because to many packets were being lost (dropped) that the receiver often did not have a chance to even send three ack's before the timeout occurred.

Gamma	Total Packets Transmitted	Time taken to Transmit (mn)
2	12508	106
4	12446	168
6	12450	239

As seen in the table above, it takes longer to run the simulation as gamma increases. This is due to the timeout interval being larger as gamma increases (RTO = estRTT + gamma \* devRTT), causing dropped packets (the main cause of error from pld in this situation) to be picked up much slower. However, less packets are needed to be sent as gamma increases, because delayed packets are acknowledged in time to avoid a timeout (bigger gamma = longer timeout (RTO)). This explains the difference between gamma 2 and 4. However gamma 4 and 6 are roughly equal in terms of packets sent, as clearly a gamma of 4 is sufficient to pick up the majority of packets that have been delayed and not dropped.

c)

The file has been successfully transferred. The transfer took 26 minutes.

Duplicated segments do not cause much stress time wise on the receiver. Similarly, in the majority of cases, re-ordering with a maxOrder of 4 will cause a fast retransmit and also not cause much stress timewise on either the sender or the receiver. Since there was 700 more dropped packets than corrupted packets, and the fact that both are handled similarly by the receiver (i.e the receiver doesn't send an Ack for either case, for dropped packets it doesn't know anything came, and for corrupted packets it discards it), I believe that dropped packets was the single biggest contributing factor for transfer time.

### Appendix

### a) Sender log file (pDrop 0.1)

1 snd	0	S	0	0	0
2 rcv 3 snd	0.0017731189727783203 0.0029916763305664062	SA A	0 1	0	1 1
4 snd	0.02014946937561035	D	i	100	i
5 snd	0.02581620216369629	D	101	100	1
6 rcv	0.0317535400390625	A	1	9	101
7 drop 8 rcv	0.03772735595703125 0.0758674144744873	D A	201 2	100 0	2 201
9 snd	0.08642911911010742	Ď	301	100	3
10 rcv/DA	0.09734725952148438	A	2	Θ	201
11 snd	0.1131134033203125	D	401	100	3
12 rcv/DA	0.12389993667602539	A D	2 501	0 100	201 3
13 snd 14 snd	0.129286527633667 0.14035415649414062	D	601	100	3
15 rcv/DA	0.14053916931152344	Ä	2	0	201
16 snd/RXTF	0.16689252853393555	D	201	100	Θ
17 rcv/DA	0.2373490333557129	A	2	Θ	201
18 rcv	0.2898995876312256	A D	7 701	0 100	701 8
19 snd 20 rcv	0.36176514625549316 0.3942553997039795	A	8	0	801
21 snd	0.39974164962768555	Ď	801	100	9
22 snd	0.42092370986938477	D	901	100	9
23 rcv	0.42144107818603516	A	9	0	901
24 snd 25 rcv	0.43199992179870605 0.43810081481933594	D A	1001 10	100	10 1001
26 snd	0.4436147212982178	Ď	1101	100	11
27 rcv	0.4490787982940674	Ā	11	0	1101
28 snd	0.48008275032043457	D	1201	100	12
29 rcv	0.4801661968231201	A	12	9	1201
30 snd 31 rcv	0.49117588996887207 0.49661898612976074	D A	1301 13	100	13 1301
32 snd	0.5281345844268799	D	13	100	15
33 rcv	0.5280613899230957	A	14	0	1401
34 snd	0.5442378520965576	D	1501	100	15
35 rcv	0.5496985912322998	A	15	9	1501
36 snd 37 rcv	0.5602138042449951	D A	1601 16	100	16 1601
38 snd	0.5658931732177734 0.5714633464813232	D	1701	100	17
39 rcv	0.5772922039031982	A	17	Θ	1701
40 snd	0.5981624126434326	D	1801	100	18
41 rcv	0.5983145236968994	A	18	0	1801
42 snd 43 rcv	0.614210844039917 0.6196174621582031	D A	1901 19	100	19 1901
44 drop	0.6303627490997314	D	2001	100	20
	0.6357152462005615	Ā	20	0	2001
45 rcv					
45 1 CV	0.0337132402003013	÷.	20	Ÿ	= = 000
		-	5222		21
46 snd	0.6414048671722412	D D	2101	100	21 21
46 snd 47 snd 48 rcv/DA	0.6414048671722412 0.6524896621704102 0.6579568386077881	D	2101 2201 20	100 100 0	21 2001
46 snd 47 snd 48 rcv/DA 49 rcv/DA	0.6414048671722412 0.6524896621704102 0.6579568386077881 0.6738440990447998	D D A A	2101 2201 20 20	100 100 0	21 2001 2001
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd	9.6414948671722412 9.6524896621704102 9.6579568386077881 9.6738449990447998 9.679288387298584	D D A A	2101 2201 20 20 20 2301	100 100 0 0	21 2001 2001 21
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA	0.6414048671722412 0.6524896621704102 0.6579568386677881 0.6738440990447998 0.679288387298584 0.7006049156188965	D D A A D	2101 2201 20 20 2301 20	100 100 0 0 100	21 2001 2001 21 2001
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd	0.6414948671722412 0.6524896621704102 0.6579568386077881 0.6736440990447998 0.679288387298584 0.7006049156188965 0.7007827758739062	D D A A	2181 2281 28 20 2381 20 2401	100 100 0 0 100 100	21 2001 2001 21 2001 21
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA	0.6414048671722412 0.6524896621704102 0.6579568386677881 0.6738440990447998 0.679288387298584 0.7006049156188965	D D A A D	2181 2291 26 26 2391 20 2461 2691 20	100 100 0 0 100	21 2001 2001 21 2001 21 0
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA 55 rcv	0.6414048671722412 0.6524896621704102 0.6579568386077881 0.6738440990447998 0.679288387298584 0.7006049156188965 0.7007827758789062 0.7168211936950684 0.7358167171478271 0.7881461219787599	D D A A D D D A A	2161 2261 26 26 28 2361 26 2461 2601 26	100 100 0 0 100 0 100 100	21 2001 2001 21 2001 21 0 2001 2501
46 snd 47 snd 48 rcv/DA 49 rcv/DA 36 snd 31 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA 55 rcv 56 snd	0.6414048671722412 0.6574896621764102 0.6579568386077881 0.6738440990447998 0.679283387298584 0.7066649156188965 0.7067827758789652 0.7168211936956684 0.7358167171748271 0.7801461219787598 0.8258426189422667	D D A D D A A D D	2181 2281 28 20 20 2391 20 2481 2881 20 25 25	100 100 0 0 100 0 100 0 0	21 2001 2001 21 2001 21 0 2001 2501 2501
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA 55 rcv 56 snd 57 rcv	0.6414048671722412 0.6524896621704102 0.6579568386077881 0.6738440990447998 0.679288387298584 0.7906649156188965 0.7607827758789062 0.7168211936950684 0.7358167171478271 0.78014621219787598 0.8258426189422607	D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D D A A A D D D A A A D D D A A A D D D A A A D D D A A D D D A A A D D D A A A D D D A A A D D D A A A D D D A A A D D D A A A D D D A A A D D D A A A D D D A A D D D A A D D D A A D D D D A A D D D D A A D	2161 2261 26 26 28 2361 29 2461 2061 26 25 25 2561	100 100 0 0 100 0 100 100 0 0	21 2001 2001 21 2001 21 0 2001 2501 26 2601
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA 55 rcv 56 snd 57 rcv 58 snd	0.6414048671722412 0.6574896621764102 0.6579568386077881 0.673844699044799 0.767928387298584 0.7086694156188965 0.7087827758789062 0.7168211936956684 0.7358167171478271 0.7801461219787598 0.8258426189422607 0.8383224010467529 0.8383224010467529	D D A A D D A A D D A A D D A D D A D D A D D A D D A D D A D D A D D D A D	2181 2291 28 29 20 2301 20 2481 2001 20 25 25 251 26	100 100 0 0 100 0 100 0 0	21 2001 2001 21 2001 21 0 2001 2501 26 2601 27
46 snd 47 snd 48 rcv/DA 49 rcv/DA 30 snd 31 rcv/DA 33 snd/RXTF 35 snd/RXTF 55 rcv 56 snd 57 rcv 58 snd 59 rcv 60 drop	8.6414048671722412 9.6524896621704102 9.6579568386077881 9.6738440999447998 9.679288387298584 9.70966949156189955 9.7097827758789094 9.7358167317470271 9.7891461219787598 9.8258426189422607 9.8383224010467529 9.83895811360168457 9.8809511360168457 9.8809511360168457	D D A A D D A A D D A A D D A A D D A A D D A A D D D A D D D A D	2101 2201 20 20 20 2301 20 20 20 20 25 25 25 26 26 26 27 27	100 100 0 0 100 0 100 100 0 0 100 0	21 2091 2091 21 2091 21 0 2091 2591 26 2691 27 2791 28
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA 55 rcv 56 snd 57 rcv 58 snd 59 rcv 60 drop 61 drop	0.6414048671722412 0.6524896621704102 0.6579568386077881 0.6738440990447998 0.679288387298584 0.7006649156188965 0.7007827758789062 0.7168211936950684 0.7358167171478271 0.7881461219787599 0.8258426189422607 0.8383224010467529 0.8383224010646755 0.8801229000091553 0.966345844268798	D D A A D D D A A D D A D D D D D D D D	2161 2261 20 20 20 2361 20 2461 2061 20 25 2552561 2661 27 2771 2781	100 100 0 0 100 0 100 100 0 0 100 0 100 0	21 2001 2001 21 2001 21 0 2001 2501 26 2601 27 2701 28 28
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 55 rcv/DA 55 rcv 56 snd 57 rcv 58 snd 69 drop 61 drop 62 snd	0.6414048671722412 0.6524896621704102 0.6579566386077881 0.6738440999447998 0.679288387298584 0.700604915618965 0.7007827758789062 0.7807827758789062 0.7801461219787598 0.8258426189422607 0.8383224010467529 0.8383224010467529 0.838878885099756 0.8800511360168457 0.8800511360168457 0.8800511360168457 0.9663458442687988 0.9755535335540771	D D A A D D D A A D D D D D D D D D D D	2101 2201 20 20 20 2301 20 2401 2601 25 25 25 26 26 26 27 27 2701 2801 2901	100 100 0 0 100 0 100 100 0 100 100 100	21 2091 2091 21 2091 21 0 2091 2591 26 2691 27 2791 28 28
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA 55 rcv 56 snd 57 rcv 58 snd 59 rcv 60 drop 61 drop 62 snd 63 rcv/DA	0.6414048671722412 0.6524896621704102 0.6579568386077881 0.6738440990447998 0.679288387298584 0.7006049156188965 0.7007827758789062 0.7168211936950684 0.7358167171478271 0.7801461219787599 0.8258426189422607 0.8383224010467529 0.8383224010467529 0.8383224010646752 0.8801229000091553 0.9063458442687988 0.978553335540771 0.98929166793832324	D D A A D D D A D D D D D A D D D D D D	2161 2261 20 20 20 2361 20 2461 2061 20 25 2552 2561 26 2661 27 2701 2861 2961	100 100 0 0 100 0 100 100 0 0 100 0 100 0 100 0	21 2001 2001 21 2001 21 6 2001 2501 2501 27 2791 28 28 28 28 28
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA 55 rcv 55 rcv 55 rcv 60 drop 61 drop 62 snd 63 rcv/DA	0.6414048671722412 0.6524896621704102 0.6579566386077881 0.6738440999447998 0.679288387298584 0.700604915618965 0.7007827758789062 0.7807827758789062 0.7801461219787598 0.8258426189422607 0.8383224010467529 0.8383224010467529 0.838878885099756 0.8800511360168457 0.8800511360168457 0.8800511360168457 0.9663458442687988 0.9755535335540771	D D A A D D D A A D D D D D D D D D D D	2101 2201 20 20 20 2361 20 2461 2001 20 25 25 26 26 26 27 27 27 27 2801 2901 27 3001	100 100 0 0 100 0 100 100 0 100 100 100	21 2091 2091 21 2091 21 0 2091 2591 26 2691 27 2791 28 28 28 2791 28
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46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 52 snd 53 snd/RXTF 54 rcv/DA 55 srd 57 rcv 66 snd 57 rcv 68 snd 63 rcv/DA 64 snd 64 snd 64 snd 65 rcv/DA 65 snd 67 rcv/DA 67 rcv/DA 68 snd 69 rcv/DA 68 snd 69 rcv/DA 69 rcv/DA 60 rcv/DA 61 rcv/DA 63 rcv/DA 64 snd 67 rcv/DA 67 rcv/DA 67 rcv/DA 68 snd 67 rcv/DA 68 snd 67 rcv/DA 67 rcv/DA 68 rcv/DA 69 rcv/DA 67 rcv/DA 67 rcv/DA 68 rcv/DA 69 rcv/DA 67 rcv/DA 68 rcv/DA 69 rcv/DA 69 rcv/DA 60 rcv/DA 60 rcv/DA 60 rcv/DA 61 rcv 70 rd 67 rcv/DA 68 rcv/DA 69 rcv/DA 69 rcv/DA 60 rcv/D	0.6414048671722412 0.6579568386077881 0.6579568386077881 0.6738440990447998 0.79288387298584 0.79066949156188965 0.7907827758789962 0.71682119396956684 0.7358167171478271 0.7881461219787598 0.8258426189422607 0.8383224010467529 0.8438758850097656 0.880651136160457 0.980651256166457 0.980651256166457 0.980671279812573 0.9902916679382324 0.9902916679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.9902916797982324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.990291679382324 0.9902916795933946 0.99029167959535 0.884559591049646494 2.9959812459408936 2.9732019901275635 0.89tes) d (including drop & RXT) handled by PLD dropped Corrupted Re-ordered Duplicated	D D A A D D A A D D D A A D D D A A D D D A A D D D A A D D D D A A D D D D A A D D D D A A D D D D A D D D A D D D D A D	2101 2201 20 20 20 2301 20 2401 2001 20 255 2591 26 2661 27701 2801 2901 27 27 3601 27 27 31 3029 31	100 100 0 100 0 100 100 100 100 100 100	21 2001 2001 21 2001 21 0 0 2001 2501 26 26 2601 27 2701 28 28 28 2701 0 0 801 0 0 3029 32 3029
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 53 snd/RXTF 54 rcv/DA 55 rcv 67 snd 69 drop 61 drop 62 snd 63 rcv/DA 65 rcv/DA 65 rcv 68 drop 61 drop 62 snd 63 rcv/DA 65 rcv/DA 65 rcv/DA 67 rcv 70 snd 71 rcv 72 rcv 73 snd 71 sumber of Segments 78 Number of Segments 88 Number of Segments 88 Number of Segments 88 Number of Segments 81 Number of Segments 81 Number of Segments	0.6414048671722412 0.6524896621704102 0.6579568386077881 0.673844899647998 0.679288387298584 0.70066949156183965 0.7106271939556624 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581671714782218 0.73581229060901553 0.73581229060901553 0.73581229060901553 0.73581229060901553 0.73581229060901553 0.73581229080915538 0.73581290812909015538 0.73581290812908156738 0.7358129189674377744 0.7358129189674377744 0.7358129189674377744 0.7358129189674377744 0.73581248968681152 0.732019991275635 0.792066266081152 0.772026626081152 0.7720266260808152	D D A A D D A A D D D A A D D D A A D D D A A D D D A A D D D D A A D D D A A D D D A A D D D A A D D D A A D D D A A D D D A A D D D D A A D	2101 2201 20 20 20 2301 20 2401 2001 20 255 2591 26 2661 27701 2801 2901 27 27 3601 27 27 31 3029 31	100 100 0 100 0 100 100 100 100 100 100	21 2001 2001 21 2001 21 0 0 2001 2501 26 26 2601 27 2701 28 28 28 2701 0 0 801 0 0 3029 32 3029
46 snd 47 snd 48 rcv/DA 49 rcv/DA 50 snd 51 rcv/DA 52 snd 52 snd 53 snd/RXTF 54 rcv/DA 55 srd 57 rcv 56 snd 57 rcv 68 drd 61 drop 61 drop 61 drop 63 rcv/DA 64 snd 65 rcv/DA 66 snd/RXTT 67 rcv 70 snd 67 snd 67 rcv/DA 68 snd/RXTT 69 rcv 70 snd 71 rcv 72 rcv 73 snd 74 rcv 74 snd 75 Size of the file (i 76 Segnents transmitte 77 Number of Segments 78 Number of Segments 78 Number of Segments 81 Number of Segments 81 Number of Segments 81 Number of Segments 81 Number of Segments	0.6414048671722412 0.6579568386077881 0.6579568386077881 0.6738440990447998 0.679288387298584 0.7006049156183965 0.7007827758789062 0.7168211939695684 0.7358167171478271 0.7881461219787598 0.8258426189422607 0.8383224010467529 0.8438758850097656 0.8801229000091553 0.96358324261864457 0.98051350166457 0.98051350166457 0.98051350166457 0.98051350166457 0.98051350166457 0.98051350166457 0.98051350166457 0.98051350166457 0.98051350166457 0.98051672798156738 0.978553335540771 0.98051672798156738 0.980567397146625 0.83837375926071436 0.881229084045739746 0.881290844579510466494 0.9855012450466494 0.9855012450466998 0.979206666861152 0.9732019901275635  n Bytes) d (including drop & RXT) handled by PLD dropped Corrupted Re-ordered Duplicated Delayed Ssions due to TIMEOUT	D D A A D D A A D D D A A D D D A A D D D A A D D D A A D D D D A A D D D D A A D D D D A A D D D D A D D D A D D D D A D	2101 2201 20 20 20 2301 20 2401 2001 20 255 2591 26 2661 27701 2801 2901 27 27 3601 27 27 31 3029 31	100 100 0 100 0 100 100 100 100 100 100	21 2001 2001 21 2001 21 0 0 2001 2501 26 26 2601 27 2701 28 28 28 2701 0 0 801 0 0 3029 32 3029

### Receiver log File (pDrop 0.1)

1 rcv	0	S	0	Θ	Θ
2 snd	0.0015282630920410156	SA	0	0	1
3 rcv	0.0027265548706054688	A	1	0	1
4 rcv	0.02522897720336914	D	1	100	1
5 snd	0.02941441535949707	A	1	0	101
6 rcv	0.030447721481323242	D	101	100	1
7 snd	0.03276705741882324	A D	2 301	0 100	201 3
8 rcv 9 snd/DA	0.08675765991210938 0.08767414093017578	A	2	9	201
10 rcv	0.11315608024597168	Ď	401	100	3
11 snd/DA	0.11392641067504883	Ä	2	0	201
12 rcv	0.13424062728881836	ĥ	501	100	3
13 snd/DA	0.13500499725341797	Ā	2	0	201
14 rcv	0.1454768180847168	D	601	100	3
15 snd/DA	0.1462407112121582	A	2	0	201
16 rcv	0.17185211181640625	D	201	100	0
17 snd	0.17547321319580078	A	7	0	701
18 rcv	0.36679720878601074	D	701	100	8
19 snd	0.36834216117858887	A	8	0	801
20 rcv	0.4046897888183594	D	801	100 0	9 901
21 snd 22 rcv	0.40612316131591797 0.4260270595550537	A D	901	100	901
23 snd	0.427487850189209	A	10	9	1001
24 rcv	0.4281914234161377	ĥ	1001	100	10
25 snd	0.42963433265686035	Ā	11	9	1101
26 rcv	0.44859886169433594	D	1101	100	11
27 snd	0.4499826431274414	A	12	0	1201
28 rcv	0.48017001152038574	D	1201	100	12
29 snd	0.48186254501342773	A	13	0	1301
30 rcv	0.4961371421813965	D	1301	100	13
31 snd	0.49753260612487793	A	14	0	1401
32 rcv	0.5333468914031982	D	1401	100	14
33 snd 34 rcv	0.534764289855957 0.5492541790008545	A D	15 1501	100	1501 15
35 snd	0.5506632328033447	A	16	0	1601
36 rcv	0.5653369426727295	Ď	1601	100	16
37 snd	0.5667593479156494	Ā	17	9	1701
38 rcv	0.5764153003692627	Ď	1701	100	17
39 snd	0.5779342651367188	Ā	18	0	1801
40 rcv	0.5980606079101562	D	1801	100	18
41 snd	0.5996189117431641	A	19	0	1901
42 rcv	0.6193215847015381	D	1901	100	19
43 snd	0.6206576824188232	A	20	0	2001
44 rcv	0.6464526653289795	D	2101	100	21
45 snd/DA	0.6471583843231201	A	20	0	2001
46 rcv	0.6574914455413818	D	2201	100	21
47 snd/DA	0.6582129001617432	Ā	20	A	2001
48 rcv	0.6842374801635742	D	2301	100	21
49 snd/DA	0.6852447986602783	A	20	Θ	2001
50 rcv	0.7059037685394287	D	2401	100	21
51 snd/DA	0.7067763805389404	A	20	Θ	2001
52 rcv	0.7217879295349121	D	2001	100	Θ
53 snd	0.7254538536071777	A	25	θ	2501
54 rcv 55 snd	0.8309977054595947	D	2501	100	26 2601
55 snd 56 rcv	0.832679033279419 0.8488137722015381	A D	26 2601	100	2601 27
56 FCV 57 snd	0.8501412868499756	A A	27	100	2701
58 rcv	0.9837250709533691	Ď	2901	100	28
59 snd/DA	0.984576940536499	Ä	27	0	2701
60 rcv	0.9945318698883057	D	3001	28	28
61 snd/DA	0.9952571392059326	A	27	Θ	2701
62 rcv	1.9109258651733398	D	2701	100	Θ
63 snd	1.9127628803253174	A	28	Θ	2801
64 rcv	2.8269145488739014	D	2801	100	Θ
65 snd	2.8298354148864746	A	31	0	3029
66 rcv	2.8700003623962402	F	3029	0	32
67 snd	2.870830774307251	A F	32 32	0	3030
68 snd 69 rcv	2.9720866680145264 2.974546432495117	A	32 33	0	3030 3029
70	2.3/434043249311/	A	33	Ü	3029
71 Amount of data received (i	in Rytes)	3028			
72 Total segments received	-,,	35			
73 Data segments received		31			
74 Data segments with Bit Err	rors	Θ			
75 Duplicate data segments re		Θ			
76 Duplicate ACKs sent		10			

# Sender Log File (pDrop 0.3)

1 snd 2 rcv 0 .0018813610076904279 3 snd 0 .0018813610076904279 4 drop 0 .01032822580615234375 4 drop 0 .0103282682335205078 5 snd 0 .01168474351477588 5 snd 0 .01168474351477583 6 snd 0 .015684743517594253 9 rcv/DA 0 .03602490844725625 11 rcv/DA 0 .036025636329329785 12 rcv/DA 0 .027289753647571857 13 rcv 13 1308364866164062 13 rcv 13 1308364866164062 14 rcv/DA 15 rcv 15 rcv 15 rcv 15 rcv 15 rcv 15 rcv 16 rcv/DA 17 rcv/DA 18 rcv 19 rcv/DA 18 rcv 19 rcv/DA 10 rcv/DA 10 rcv/DA 10 rcv/DA 10 rcv/DA 10 rcv/DA 11 rcv 11 rcv 12 rcv 13 rcv 14 rcv/DA 13 rcv 14 rcv/DA 13 rcv 15 rcv 16 rcv/DA 15 rcv/DA 16 rcv/DA 17 rcv/DA 17 rcv/DA 17 rcv	S S A A D D D D D A A A A D D D D A D A	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 100 1100 1100 1100 1100 1100 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
54 drop 19.41165614128112 55 drop 29.378633567947 56 snd/RXTT 22.47288287742614 57 rcv 22.6116428227869 58 snd 22.66615676879882 59 snd 22.6788762522167 61 snd 22.7887824539737 60 rcv/DA 22.7887824539737 62 rcv 0A 22.788782453973 63 rcv 0A 22.788782453973 64 rcv/DA 22.788782643074 65 RRdrop 22.78838962181891 66 rcv/DA 22.749459831237 67 snd/RXTT 24.2349559724029 68 rcv 24.286831961440 69 drop 24.32195973396301 72 snd 24.382957382240 72 snd 24.382957382240 73 rcv/DA 24.3818618917 74 snd 24.3859739387 75 rcv 27.5868196140 77 rnd/RXTT 27.4655484 77 rrv/DA 24.3815182758844 75 rcv/DA 24.3815182758844 75 rcv/DA 24.3815182758844 75 rcv/DA 24.3815182758848 76 rcv 27.586849887 77 rnd/RXTT 27.465544158782 78 rcv 27.586844 79 rcv 27.586844 77 rnd/RXTT 27.46554341587882 81 rcv/DA 29.89762348799108 82 snd 29.14382457733154 83 rcv/DA 29.89762348799108 84 snd/RXTT 32.1741788887288 85 snd/RXTT 32.1741788887288 85 snd/RXTT 32.1741788887288 86 snd/RXTT 32.1741788887288 87 rcv 35.2651672365281 88 snd/RXTT 35.221891880934 89 rcv 35.5651672365281 90 snd 35.2877860869274 91 rcv 35.3889979993931 92 rcv 35.38498209953310 93 snd 35.2877860869274 99 Number of Segments bandled by PLD 98 Number of Segments bandled by PLD	122 D 177 178 178 178 178 178 178 178 179 179 179 179 179 179 179 179 179 179	1501 1501 1501 1501 190 2001 2101 19 2201 19 1901 1901 19	100 100 100 100 100 100 100 100 100 100	16 16 19 1901 20 20 20 1901 20 1901 20 1901 20 1901 20 20 1901 20 20 1901 25 25 25 25 2401 25 26 20 20 20 20 20 20 20 20 30 30 30 33

# Receiver Log File (pDrop 0.3)

1 rcv	0	S	θ	Θ	Θ
2 snd	0.0013802051544189453	SA	Θ	Ō	1
3 rcv 4 rcv	0.0029065608978271484 0.025099754333496094	A D	1 101	0 100	1 1
5 snd/DA	0.026175975799560547	A	Θ	0	1
6 rcv 7 snd/DA	0.026990175247192383 0.02780461311340332	D A	201	100 0	1 1
8 rcv	0.04087376594543457	D	301	100	1
9 snd/DA	0.042043209075927734	A	0	0	1
10 rcv 11 snd	3.115478754043579 3.118901252746582	D A	1	100 0	0 401
12 rcv	3.2125930786132812	D	501	100	5
13 snd/DA 14 rcv	3.213693857192993 3.338324785232544	A D	4 801	0 100	401 5
15 snd/DA	3.3392646312713623	Ā	4	0	401
16 rcv	4.8983213901519775	D	401	100	0
17 snd 18 rcv	4.903478384017944 5.014092206954956	A D	6 1001	100	601 7
19 snd/DA	5.015094995498657	A	6	Θ	601
20 rcv 21 snd	6.595268249511719 6.596875429153442	D A	601 7	100 0	0 701
22 rcv	6.668657541275024	D	1101	100	8
23 snd/DA 24 rcv	6.669461965560913 8.212249279022217	A D	7 701	0 100	701 0
25 snd	8.21843433380127	A	9	0	901
26 rcv	8.33506965637207	D A	1201	100	10 901
27 snd/DA 28 rcv	8.33590579032898 9.858095645904541	D	901	100	901
29 snd	9.861684322357178	A	13	Θ	1301
30 rcv 31 snd/DA	9.979738712310791 9.980822801589966	D A	1601 13	100	14 1301
32 rcv	9.996954202651978	Ď	1701	100	14
33 snd/DA 34 rcv	9.99771785736084 13.03702163696289	A D	13 1301	0 100	1301
35 snd	13.046465396881104	A	14	0	1401
36 rcv	13.187058687210083	D	1801	100	15
37 snd/DA 38 rcv	13.188015699386597 14.76063871383667	A D	14 1401	0 100	1401 0
39 snd	14.762360334396362	A	15	Θ	1501
40 rcv 41 snd	22.472647428512573 22.47653341293335	D A	1501 19	100 0	0 1901
42 rcv	22.67192029953003	Ď	2001	100	20
43 snd/DA 44 rcv	22.672977924346924 22.683634042739868	A D	19 2101	0 100	1901 20
45 snd/DA	22.68454647064209	A	19	0	1901
46 rcv	22.690450429916382	D	2201	100	20
47 snd/DA 48 rcv	22.691208839416504 22.70543670654297	A D	19 2301	0 100	1901 20
49 snd/DA	22.706169366836548	A	19	Θ	1901
50 rcv 51 snd	24.245221376419067 24.25421643257141	D A	1901 24	100 0	0 2401
52 rcv	24.370115280151367	D	2701	100	25
53 snd/DA	24.371113061904907	Α	24	Θ	2401
		_			
54 rcv 55 snd/DA	24.40760040283203 24.408446311950684	D A	2801 24	100	25 2401
56 rcv	27.47050976753235	Ď	2401	100	0
57 snd	27.472315549850464	A D	25	0 100	2501 0
58 rcv 59 snd	29.03952145576477 29.046117305755615	A A	2501 26	100	2601
60 rcv	29.143657445907593	D	3001	28	27
61 snd/DA 62 rcv	29.144461393356323 32.17913317680359	A D	26 2601	0 100	2601 0
63 snd	32.18211102485657	A	29	0	2901
64 rcv 65 snd	35.22727012634277 35.229633808135986	D A	2901 31	100	0 3029
66 rcv	35.29293179512024	F	3029	Θ	32
67 snd	35.293729066848755	A	32	0	3030
68 snd 69 rcv	35.39493536949158 35.411051750183105	F A	32 33	Θ Θ	3030 3029
70			33	v	3023
71 Amount of data received (	in Bytes)	3028			
72 Total segments received 73 Data segments received		35 31			
74 Data segments with Bit Er		Θ			
75 Duplicate data segments r 76 Duplicate ACKs sent	eceived	0 18			
To populate news sell		10			

# (Sender Log File Snipets, gamma = 2)

1 kmd 8 2 rcv 0.009608264 3 snd 0.001703977.4 4 snd 0.002573728 5 drop 0.003306159 6 drop 0.003306159 7 snd 0.005737348 8 drop 0.005773748 1 drop 0.005774971 9 snd 0.005773548 1 drop 0.005773548 1 rcv 0.005773487 1 rcv 0.005787148 2 rcv 0.005787148 3 rcv 0.005787148 4 rcv/DA 0.124021033 5 rd 0.005787148 5 rd 0.005787148 6 rcv/DA 1.07393839 7 drop 0.005787148 6 rcv/DA 1.07393839 7 drop 0.005787148 8 snd/RXTT 0.005837602 8 snd/RXTT 0.005837602 8 snd/RXTT 0.005837602 8 rcv 0.005837602 8 rdv	\$848388672 A 6164191367 D 136461367 D 136461367 D 139468233 D 1318663516 D 163769531 D 1115234375 D 1603315625 D 132231953 D 132249512 A 14228989 A 1477539 D 147753	0 1 1 1 1 1 1 1 1 1 1 201 301 301 401 401 451 1 1 1 1 1 2 551 101 3 3 601 3 3 151 151 5 661 701 221 251 77 751 801 351	6 6 6 50 50 50 50 50 50 6 6 6 6 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18688 snd/delay 6375.09628 18689 rcv/DA 6375.19787 18699 snd/RXTF 6375.13383 18691 rcv 6375.13787 18699 snd/RXTF 6375.13383 18691 rcv 6375.1378.13838 18691 rcv 6375.1378.13838 18693 rov/DA 6375.28546 18693 snd/Gelay 6375.83856 18696 rcv/DA 6375.82679 18699 fdrop 6376.47974 18699 rcv 6377.18734 18698 snd/RXTT 6377.18737 18799 rcv 6377.18734 18791 rcv 6377.99796 1879 fdrop 6379.28788 1878 fdrop 6388.629348 1879 rcv 6388.629348 1871 Steeper fdrop 6379.28788 1871 Steeper fdrop fdrop 637888 1871 Steeper fdrop fdrop 637888888888887888888888888888888888888	132263 A 36673 D 6081175 A 6631455 D 6591168 D 7722977 D 738591 A 7580124 D 104996 D 104996 D 759157 D 75977 D	308051 6152 307601 6156 308101 60820 60820 60820 60820 6156 307801 307801 6157 307851 6159 307951 6162 308101 308101 6165 308204 6165	50 0 50 0 50 3 0 50 50 0 50 0 50 0 50 0	6153 307601 0 307801 6157 56179 307801 6157 60157 607851 0 307851 0 307851 6160 0 308101 6163 0 308204 6166 308204 6166 308204

# Receiver Log File Snipets (Gamma = 2)

1 rcv	Θ	S	Θ	Θ	θ
2 snd	0.0006909370422363281	SA	Θ	θ	1
3 rcv	0.0015096664428710938	A	1	θ	1
4 rcv	0.027930259704589844	D	ī	50	ī
5 snd	0.03011465072631836	A	1	θ	51
6 rcv	0.030922651290893555	D	201	50	1
7 snd/DA	0.03654909133911133	A	1	θ	51
8 rcv	0.03730511665344238	D	301	50	1
9 snd/DA	0.03808021545410156	A	1	θ	51
10 rcv	0.03879666328430176	D	401	50	1
11 snd/DA	0.039576053619384766	Δ	1	θ	51
12 rcv	0.040287017822265625	ñ	451	50	1
13 snd/DA	0.041049957275390625	Ā	1	0	51
14 rcv	0.13988900184631348	Ď	51	50	0
15 snd	0.1414201259613037	Ā	2	9	101
16 rcv	0.25695204734802246	ĥ	101	50	101
17 snd	0.25845789909362793	A	3	9	151
18 rcv	0.33696484565734863	ñ	601	50	4
19 snd/DA	0.33943748474121094	A	3	θ.	151
20 rcv	1.029043436050415	ĥ	501	50	2
21 snd/DA	1.0299992561340332	A	301	θ.	151
22 rcv	3.091153621673584	ĥ	151	50	0
23 snd	3.093863010406494	A	5	θ.	251
24 rcv	5.188104152679443	A .	251	50	9
25 snd	5.190259695053101	D	7	9	351
26 rcv	6.275397539138794	<u> </u>	351	50	9
27 snd	6.278369665145874	, A	11	9	551
28 rcv	6.432904958724976	A .	1001	50	12
29 snd/DA	6.432567762374878	D	11	0	551
30 rcv	11.669804334640503	A	551	50	9
	11.672221422195435	D.	13	0	651
31 snd 32 rcv	12.044985294342041	A	1101		14
		Ď,		50	
33 snd/DA	12.045841693878174	A	13	0	651

12380 rcv	6371.571648359299	D	307901	50	6151
12381 snd/DA	6371.572489976883	A	6150	0	307501
12382 rcv	6374.337012529373	D	307501	50	0
12383 snd	6374.339153051376	A	6152	Θ	307601
12384 rcv	6374.480946302414	D	308001	50	6153
12385 snd/DA	6374.481785297394	A	6152	0	307601
12386 rcv/dup	6374.497263431549	D	307501	50	θ
12387 snd/DA	6374.4981009960175	A	6152	Θ	307601
12388 rcv	6375.096236944199	D	308051	50	6153
12389 snd/DA	6375.09725022316	A	6152	Θ	307601
12390 rcv	6375.138383388519	D	307601	50	Θ
12391 snd	6375.14159488678	A	6156	Θ	307801
12392 rcv	6375.210459947586	D	308201	3	6157
12393 snd/DA	6375.21133685112	A	6156	0	307801
12394 rcv	6375.789093255997	D	308151	50	6157
12395 snd/DA	6375.78998208046	A	6156	Θ	307801
12396 rcv	6377.165234804153	D	307801	50	Θ
12397 snd	6377.17178606987	A	6157	Θ	307851
12398 rcv	6377.896444797516	D	307851	50	θ
12399 snd	6377.89849114418	A	6159	Θ	307951
12400 rcv	6379.265071392059	D	307951	50	0
12401 snd	6379.267978668213	A	6162	Θ	308101
12402 rcv	6380.63472533226	D	308101	50	Θ
12403 snd	6380.637104511261	A	6165	0	308204
12404 rcv	6380.694788455963	F	308204	Θ	6166
12405 snd	6380.695496559143	A	6166	Θ	308205
12406 snd	6380.796428442001	F	6166	Θ	308205
12407 rcv	6380.797447919846	A	6167	Θ	308204
12408					
12409 Amount of data re		308203			
12410 Total segments re		6204			
12411 Data segments rec		6200			
12412 Data segments wit		Θ			
12413 Duplicate data se		35			
12414 Duplicate ACKs se	nt	3086			

# Sender Log File (gamma = 4)

1 snd 2 rcv 3 snd 4 snd 5 drop 6 drop 7 snd 8 drop 11 snd 12 snd 13 rcv 13 rcv 14 rcv/DA 15 rcv/DA 15 rcv/DA 17 snd/RXTT 18 rc/DA 20 snd/RXTT 20 rcv 21 snd 22 snd 24 rcv/DA 25 snd/delay 26 rcv 27 snd/delay 27 snd/delay 28 snd/delay 29 snd/delay 21 snd 24 rcv/DA 25 snd/delay 26 rcv 27 snd/delay 27 snd/delay 28 snd/delay 29 snd/delay 21 snd 22 rcv 23 snd 24 rcv/DA 25 snd/delay 26 rcv/DA 27 snd/RXTT 29 rcv 29 rcv 20 snd/delay 27 snd/delay 28 rcv/DA 29 rcv/DA 20 rcv/DA 21 rcv/DA 22 snd/delay 25 snd/delay 26 rcv/DA 27 snd/RXTT 38 rcv/DA 37 snd/RXTT 38 rcv/DA	0 .00110268592834477266 0 .0016183853149414062 0 .002511739730834961 0 .00255153072790527344 0 .0032535072790527344 0 .0035365485108520859736 0 .0065365485108520859736 0 .0065365485108520859736 0 .0065365485108520859736 0 .00654384212493896484 0 .008156661172485352 0 .10065413879394531 0 .10051922225952148 0 .17820477485565738 0 .22535668144226674 0 .22535668144226674 0 .25254682493408203 0 .3791013717651367 0 .25254682493408203 0 .3791013717651367 1 .0299799785105469 1 .0519187149047855 2 .0091279785105469 1 .0519187149047855 2 .0091279785105469 1 .0519187149047855 2 .0091279785105469 1 .0519187149047855 2 .0091279785105469 1 .0519187149047855 2 .0091279785105469 1 .0519187149047855 2 .0091279785105469 1 .0519187149047855 2 .0091279785105469 1 .0519187149047855 2 .0091279785105469 1 .0519187149047855 2 .009127977958105469 1 .0519187149047855 2 .009127977958105469 1 .0519187149047855 2 .009127977956054 2 .00912797950654 2 .00912797950654 2 .00912797950654 2 .00912797950654 2 .00912797950654 2 .00912797950654 2 .00912797950654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .00912797956654 2 .0091279975626 2 .0091279997626	S	0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 50 50 50 50 50 50 50 6 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18579 drop 18580 rcv/DA 18581 snd/RXTT 18582 rcv 18583 rdv 18583 rdv 18583 rcv 18583 rcv 18583 rcv 18585 rcv 18585 rdv 18585 rcv 18585 rdv 18585 rcv 18585 rcv 18585 rcv 18585 rcv 18586 rcv 18586 rcv 18596 rcv 18596 rcv 18596 rcv 18596 rcv 18596 rcv/DA 18596 snd/RXTT 18597 rcv	including drop & RXT) led by PLD uped uped ordered licated ayed ons due to TIMEOUT HISSION	D A A D A A D D A A D D A A D D A A D D A A D D D A A D D D D A A D D D D D A A A A D D D D D D A A C D D D D	307801 6147 307351 6148 307851 6148 30781 6149 30741 6149 307451 307451 3151 3151 3151 3151 3015	50 0 0 50 0 50 0 50 0 50 0 50 0 50 0 5	6148 307351 0 307461 6149 307461 6159 307451 6150 307451 6150 307551 6152 307551 6152 307561 6157 307801 6157 307801 6157 307801 6163 6163 6163 0 308294 61665

# Receiver Log File (gamma = 4)

1 rcv 8 0.008640289306640625 3366640625 3 rcv 8.0086640289306640625 3 rcv 8.0086531672668457031 4 rcv 8.027366285408396625 4 rcv 8.027366285408396625 4 rcv 8.027366285408396625 4 rcv 8.027364274 7 snd/DA 8.04873214539944824 8 rcv 8.04873214589745 8 rcv 8.04873214589745 8 rcv 8.04873214589745 8 rcv 8.0487321458914824 8 rcv 9.0487321458914824 8 rcv 9.0487321458914824 8 rcv 9.0487321458914824 8 rcv 9.04873214589132875 8 rcv 9.048732158662 9 rcv 17.04889132867328662 9 snd/DA 9.02653826612286662 3 rcv 17.0488913286633346143 3 rd 7.0488913389 3 rcv 17.0488913389 3 rcv 17.048	5	0 0 0 1 1 1 1 201 1 301 1 401 1 1 51 51 2 101 3 601 3 601 3 501 3 151 5 2251 7,751 111 1001 115 551 131 1401 115 151 151 151 151 151 151 151 151 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1018.45691/422485   12395 srd   1018.45691/422485   12395 srd   1018.4597/4519484   12396 rcv   1018.54777879178   12396 rcv   1018.5477879178   12398 rcv   1018.5477879178   12398 rcv   1019.89373925064   12398 rcv   1019.89373925064   12398 rcv   1019.89373925064   12398 rcv   1019.89373925064   12398 rcv   1019.89379825064   12398 rcv   1019.893798087495   12313 rcv   1019.893798087495   12313 rcv   1019.893798087495   12314 rcv   1019.89378087495   12315 srd/0A   1019.89378087495   12315 srd/0A   1019.893788718   12315 srd/0A   1019.8937898718   12315 srd/0A   1019.893789718   12398 rcv   1019.893789718   12398 rcv   1019.893789718   12398 rcv   1019.893789718   12398 rcv   1019.89389718   12324 rcv   1019.89389718   12325 rcv   1019.8938998644816   12325 rcv   1019.8938998644816   12325 rcv   1019.8938998644816   12328 rcv   1019.8938998644816   12328 rcv   1019.8938998648716   12328 rcv   1019.893899898986   12328 rcv   1019.89389989898989898989898989898989898989	D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D A A D D D A A D	307251 6147 307751 6147 307251 6148 307251 6149 307261 6149 307261 6149 307251 6151 308001 6155 308151 6156 308151 6156 308151 6156 308151 6156 308151 6156 308151 6156 308151 6156 308261 6166 6166 6166 6166	59 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 737351 6148 307351 6148 307351 6148 307351 6149 304401 6150 307451 6150 307451 6152 307551 6152 307551 6157 307861 6157 507861 6157 507861 6157 507861 6157 507861 6157 5078

# Sender Log File (gamma = 6)

3 snd	11489391326904297 2083998157348633 2283739899955281232310 2283739899955281232310 2393798999781232310 2393798999781232310 239379899781232310 23937989781232310 23937981232310 23937981232310 23937981232310 23937981232310 23937981231231231 23937981231231231 23937981231231231231231231231231231231231231231	S S A A D D D D D A A D D D D D A A D D D D D A A D D D D A A D D D D D A A D D D D D A A D D D D D A A D D D D D A A D D D D D D D A A D	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 2 2 5 1 2 2 2 5 1 2 2 2 5 1 2 2 2 2
18598 g drop 143 18591 rcv 143 18591 rcv 143 18591 rcv 143 18591 rcv 143 18593 rdv 144 18593 rdv 144 18595 rcv/DA 143 18595 rcv/DA 143 18595 rcv/DA 143 18596 snd/RXT 143 18596 rcv 143 18597 rcv 143 18597 rcv 144 18597 rcv 144 18597 rcv 144 18697 rcv 144 18698 rdv 144 18698 rdv 144 18698 rcv/DA 143 18698 rcv/DA 143 18698 rcv/DA 144 18698 rcv/DA 143 18698 rdv 144 18698 rdv 144 18698 rdv 144 18699 rdv 144 18699 rdv 144 18699 rdv 144 18699 rdv 144 18619 rcv 144 18619 rcv 144 18619 rcv 144 18611 rcv 144 18611 rcv 144 18615 rdv 144 18616 rcv 144 18617 rdv 144 18617 rdv 144 18617 rdv 144 18618 rcv 144 18618 rcv 144 18619 rcv 144 18619 rcv 144 18619 rcv 144	PLD	A D D A A D D D D D D D D D D D D D D D	6147 307351 307351 6149 307351 6149 307051 6149 307051 6149 307051 308051 308051 308051 308051 308051 308151 6154 6154 6154 6154 6154 6154 6154 6	9 59 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	307351 6148 0 307451 6150 307451 6150 307451 6155 6155 6155 307701 6155 307701 6155 307701 6155 907701 6155 907701 6155 907701 6155 907701 6155 907701 6155 907701 6155 907701 6161 907701 6161 6161 6161 6161 6161 6161 6161

# Receiver Log File (gamma = 6)

1 rcv	Θ	S	Θ	Θ	θ
2 snd	0.0007085800170898438	SA	0	Θ	1
3 rcv	0.0018854141235351562	A	1	0	1
4 rcv	0.008296012878417969	D	1	50	1
5 snd	0.009854793548583984	A	1	θ	51
6 rcv	0.07727885246276855	D	201	50	2
7 snd/DA	0.07813501358032227	A	1	Θ	51
8 rcv	0.1289818286895752	D	301	50	2
9 snd/DA	0.12982821464538574	A	1	Θ	51
10 rcv	0.2176520824432373	D	401	50	2
11 snd/DA	0.2183840274810791	A	1	Θ	51
12 rcv	0.2805309295654297	D	451	50	2
13 snd/DA	0.2812495231628418	A	1	0	51
14 rcv	0.28183984756469727	D	101	50	1
15 snd/DA	0.2824440002441406	A	1	Θ	51
16 rcv	0.291640043258667	D	501	50	2
17 snd/DA	0.2923400402069092	A	1	0	51
18 rcv	1.2039439678192139	D	51	50	Θ
19 snd	1.2061147689819336	A	3	Θ	151
20 rcv	1.3039116859436035	D	551	50	4
21 snd/DA	1.3048267364501953	A	3	Θ	151
22 rcv	3.518275022506714	D	151	50	θ
23 snd	3.5204522609710693	A	5	0	251
24 rcv	7.920252323150635	D	251	50	Θ
25 snd	7.922428131103516	A	7	Θ	351
26 rcv	10.212184429168701	D	351	50	Θ
27 snd	10.21573543548584	A	12	0	601
28 rcv	10.448004007339478	D	1001	50	13
29 snd/DA	10.448764562606812	A	12	θ	601
30 rcv	19.26816964149475	D	601	50	0
31 snd	19.269845724105835	A	13	0	651
32 rcv	21.70818305015564	D	651	50	θ
33 snd	21.709571838378906	A	14	0	701
34 rcv	28.45201301574707	D	701	50 0	0
35 snd	28.453531742095947	A	15		751
36 rcv	30.679173231124878	D	751	50	θ
37 snd	30.685870885849	A	16	0	801
38 rcv	30.798480987548828	D	1251	50	17
39 snd/DA	30.806476831436157	A	16	Θ	801
40 rcv	35.81192064285278	D	801	50	0
41 snd	35.816216230392456	A	17	0	851
42 rcv	40.196176528930664	D	851	50	0
12310 rcv		D	307751	50	12002
	14372.670319080353				6147
12311 snd/DA	14372.676333904266	A	6146	0	307301
12311 snd/DA 12312 rcv	14372.676333904266 14374.982256412506	A D	6146 307301	0 50	307301 0
12311 snd/DA 12312 rcv 12313 snd	14372.676333904266 14374.982256412506 14374.98417854309	A D A	6146 307301 6147	6 50 0	307301 0 307351
12311 snd/DA 12312 rcv 12313 snd 12314 rcv	14372.676333904266 14374.982256412506 14374.98417854309 14375.07184100151	A D A D	6146 397301 6147 307801	0 50 0 50	307301 0 307351 6148
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12315 snd/DA	14372.676333904266 14374.982256412506 14374.98417854309 14375.07184100151 14375.072586536407	A D A D	6146 397301 6147 397801 6147	0 50 0 50	307301 0 307351 6148 307351
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12315 snd/DA 12316 rcv	14372.676333904266 14374.982256412596 14374.98217854309 14375.07184100151 14375.072586536407 14379.582309584045	A D A D	6146 307301 6147 307801 6147 307351	0 50 0 50 0 50	307301 0 307351 6148 307351 0
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12315 snd/DA 12316 rcv 12317 snd	14372.676333904266 14374.982256412566 14374.98417854309 14375.07184100151 14375.072586536407 14379.582909584045 14379.5852946601288	A D A D A	6146 307301 6147 307801 6147 307351 6149	50 0 50 0 50 0	307301 0 307351 6148 307351 0 307451
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12315 snd/DA 12316 rcv 12317 snd 12318 rcv	14372.676333904266 14374.982256412506 14374.98417854309 14375.072184100151 14375.072586536407 14379.582909584045 14379.585204601288 14379.73213815689	A D A D A D	6146 307301 6147 307361 6147 307351 6149 307851	50 8 50 0 50 0 50	307301 9 307351 6148 307351 9 307451 6150
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12315 snd/DA 12316 rcv 12317 snd 12318 rcv 12319 snd/DA	14372.676333994266 14374.982256412596 14374.98417854399 14375.07184100151 14375.072586536407 14379.5822999584045 14379.7321815689 14379.7321815689	A D A D A D A	6146 3697391 6147 367861 6147 367351 6149 367851 6149	0 50 0 50 0 50 8 9	307301 0 307351 6148 307351 0 307451 6150 307451
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12315 snd/DA 12316 rcv 12317 snd 12318 rcv 12319 snd/DA 12320 rcv	14372.676333994266 14374.982256412596 14374.98417854399 14375.07184100151 14375.072586536407 14379.5825905584045 14379.73213815689 14379.73217815689 14379.75412607193	A D A D A D A	6146 387391 6147 387881 6147 387351 6149 387851 6149 387981	50 8 50 0 50 0 50	307301 9 307351 6148 307351 9 307451 6150 307451 6159
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12315 snd/DA 12316 rcv 12317 snd 12318 rcv 12319 snd/DA 12320 rcv 12321 snd/DA	14372.676333994266 14374.982256412596 14375.982256412596 14375.07184100151 14375.072586536407 14379.5823999584045 14379.585294601288 14379.732218315689 14379.732218343964 14379.75412607193	A D A D A D A D A	6146 307301 6147 307801 6147 307351 6149 307851 6149 307901 6149	50 0 50 0 50 0 50 0 50	307301 0 307351 6148 307351 0 307451 6150 307451
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12315 snd/DA 12316 rcv 12316 rcv 12317 snd 12318 rcv 12318 snd/DA 12326 rcv 12327 snd/DA	14372, 676333994266 14374, 98427854399 14375, 97184160151 14375, 972586536407 14379, 585294601288 14379, 572297834954 14379, 572278343964 14379, 752478343964 14379, 75412607193 14379, 7541879955057	A D A D A D A D A D	6146 387391 6147 387881 6147 387351 6149 387851 6149 387981	8 50 9 9 9 9 9 9 9 9 9	307301 0 307351 6148 307351 0 307451 6150 307451 6150 307451
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12314 rcv 12315 snd/DA 12315 rcv 12315 snd/DA 12316 rcv 12316 snd/DA 12327 snd/DA 12327 rcv 12323 snd/DA	14372. 676333994266 14374. 9822256412566 14374. 984477854309 14375. 6718416015.1 14375. 6712846536467 14379. 58520496584045 14379. 585204961288 14379. 75213815689 14379. 75412607193 14379. 75412607193 14379. 75412607193 14379. 75412607193 14382. 66694638379 14382. 64694638379	A D A D A D A D A	6146 387391 6147 387891 6147 387351 6149 387851 6149 387901 6149 387451	8 50 0 50 0 50 0 50 0	307301 0 307351 6148 307351 0 307451 6150 307451 6150 307451
12311 snd/DA 12312 rcv 12313 rcv 12314 rcv 12314 rcv 12315 snd/DA 12316 rcv 12317 snd 12318 rdv 12318 rdv 12323 rdv 12323 rnd/DA 12323 rnd/DA 12324 rcv 12325 rnd/DA	14372. 676333994266 14374. 9882256412566 14374. 984378543109 14375. 97184100151 14379. 973184100151 14379. 973213815689 14379. 73213815689 14379. 73213815689 14379. 73213815689 14379. 73213815689 14379. 75412607133 14379. 75412607133 14379. 75412607133 14379. 75412607133 14379. 75412607133 14379. 75412607133 14379. 75412607133 14379. 75412607133 14379. 75412607133	A D A D A D A D A D A D A D A D A D A D	6146 387301 6147 387801 6147 387351 6149 38751 6149 387991 6149 387451 6154	9 50 9 50 0 50 9 50 9 50 9	307301 0 307351 6148 307351 0 307451 6150 307451 0 307451 0 307761
12311 snd/DA 12312 rcv 12313 rcv 12314 rcv 12314 rcv 12315 snd/DA 12316 rcv 12317 snd 12318 rdv 12318 rdv 12323 rdv 12323 rnd/DA 12323 rnd/DA 12324 rcv 12325 rnd/DA	14372. 676333994266 14374. 9822256412566 14374. 984477854309 14375. 6718416015.1 14375. 67128465364407 14379. 58520490584045 14379. 585204901288 14379. 75213815689 14379. 75412607193 14379. 75412607193 14379. 75412607193 14379. 75412607193 14382. 66694638379 14382. 64694638379	A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D D A D D D A D D D A D D D A D	6146 307301 6147 307801 607801 607801 6149 307851 6149 307951 6149 307961 6154 308051	0 50 0 50 0 50 0 50 0 50 0 50 0	307301 0 307351 6148 307351 0 307451 6150 307451 0 307701 6155
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12314 rcv 12315 snd/DA 12316 rcv 12317 snd 12318 rcv 12318 rd/DA 12323 snd/DA 12324 rcv 12323 snd/DA 12326 rcv 12327 snd/DA	14372. 676333994266 14374. 9842756412566 14374. 98427584309 14375. 67184160151 14375. 97184160151 14375. 972596536467 14379. 585204601288 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 732378343964 14379. 73237836544 14379. 73283786544	A D A D A D A D A D A D A D A D A D A D	6146 387301 6147 387801 6147 387351 6149 387351 6149 387901 6149 387451 6154 388801 6154	0 50 0 50 0 50 0 50 0 50 0 50 50 0 50	307301 0 307351 6148 307351 0 307451 6159 307451 6155 307701 6155 307701 6155
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12314 rcv 12315 snd/DA 12316 rcv 12318 rcv 12318 rcv 12318 rcv 12318 rcv 12318 rcv 12321 snd/DA 12327 rcv 12321 snd/DA 12327 rcv	14372. 676333994266 14374. 9882256412566 14374. 98437854309 14375. 97184100151 14375. 97184100151 14375. 95329681045 14379. 95329681045 14379. 973213815669 14379. 773213815669 14379. 773213815669 14379. 773213815669 14379. 775412607193 14382. 968946538379 14382. 968946538379 14382. 92823162079 14382. 291813966544 14382. 292823162079	A D D D D D D D D D D D D D D D D D D D	6146 307301 6147 307801 647751 61781 307851 6149 307851 6149 307901 6149 307451 608651 6154 308101	0 50 0 50 50 50 6 50 0 0 50 0 0 50 0 50	307301 0 307351 6148 307351 007451 6159 307451 0 307451 0 307701 6155 307701 6155 307701 6155
12311 snd/DA 12312 rcv 12313 snd 12314 rcv 12314 rcv 12316 rcv 12316 rcv 12317 snd 12318 rcv 12317 snd 12318 rcv 12318 rcv 12319 snd/DA 12323 rcv 12323 rcv 12323 snd 12324 rcv 12325 snd/DA 12326 rcv 12327 snd/DA 12326 rcv 12327 snd/DA	14372. 676333994266 14374. 9882256412566 14374. 984178543109 14375. 97184100114 14379. 93184109114 14379. 932969384045 14379. 932978343094 14379. 73213815689 14379. 73213815689 14379. 73213815689 14379. 73213815689 14379. 73213815689 14382. 2028231636079 14382. 202823163079 14382. 202823163079 14382. 202823163079 14382. 202823163079	A D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D D A D	6146 307301 6147 307801 907801 907801 907851 6149 307851 6149 307851 6154 308051 6154 308161 608161 608151 6154	0 50 0 50 0 50 0 50 0 50 50 50 50 6 6 6	307301 0 307351 6148 307351 0 307451 6159 307451 0 307701 6155 307701 6155 307701
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### Part c Sender Log File

3 snd	1136688087.4633789 1199664083442382812 85492113699423828 877782377532959984 877782377532959984 878782388867 8161257743835449 9261166491088867 836743354797365 836743354797365 836743354797365 836743354797365 836743354797365 836743354797365 8367435476747475 8367474765 8367474765 8367474767 83674747 836747 83674	S A A D D D A A D D D D D D D D D D D D	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
82108 rcv 156: 82110 snd/rod 156: 82110 snd/rod 156: 82111 snd/rod 156: 82111 rcv/DA 156: 82111 rcv/DA 156: 82111 rcv/DA 156: 82111 srd 156: 82111 snd/RXT 156: 82111 snd/DA 156: 82111 snd/DA 156: 82111 snd/DA 156: 82111 snd/DA 156: 82111 srcv/DA 156: 82112 rcv/DA 156: 82112 rcv/DA 156: 82112 rcv/DA 156: 82122 rcv/DA 156: 82123 rcv/DA 156: 82124 rcv/DA 156: 82125 rcv/DA 156: 82125 rcv/DA 156: 82126 rcv/DA 156: 82127 rcv/DA 156: 82128 rcv/DA 156:	drop & RXT) .D	D A A A D D D A A A A A A A A A A A A A	1605401 32101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 0 0 50 50 9 0 0 0 0 0 0 0 0 0 0 0 0 0	32181 (169595) (16959

#### Part c Receiver Log File

1 Prov   2 snd   0.0011267662048339844   3 rcv   0.0020966529846191406   4 rcv/Cor   0.0224968529846191406   5 rcv   0.022496986339845   5 rcv   0.0424982653758365555   5 rcv   0.04249698633664551   0.04249698633664551   0.04249698633664551   0.04249698633664551   0.042496986336583617875   0.042496986335888671875   0.042496986336981875   0.0424969863369891211   0.042496986336989121   0.0424969863625918527   0.042496986369991211   0.04249698636999121   0.04249698636999121   0.04249698636999121   0.04249698636999121   0.04249698636999121   0.04249698636999121   0.04249686362599121   0.04249686362599121   0.04249686362599121   0.04249686362599121   0.04249686362599121   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496863625912   0.042496986363625   0.042496986363625   0.042496986363625   0.042496986363625   0.042496986363625   0.0424969868769345   0.0424969863625913   0.042496986363625   0.042496986366362   0.04249698636362   0.0424968636362   0.04249698636362   0.042496863636   0.042496863636   0.042496863636   0.042496863636   0.042496863636   0.042496863636   0.042496863636   0.042496863636   0.042496863636   0.042496863636   0.04249663636   0.0424966636   0.0424966636   0.0424966636   0.0424966636	5 SA A D D A D A D A D A D A D D D A D	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 50 50 0 0 0 50 0 0 50 0 0 50 0 0 0 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
177928 snd/DA 1565.66337727596907 177921 rcv/dup 1565.6633289859557 17922 rnd/DA 1565.664523475647 17922 rcv 1565.6632898955957 17922 rcv 1565.6652869991797 17925 rcv 1565.665286991797 17925 rcv 1565.6661989225618 17926 snd/DA 1565.6661989225618 179327 rcv 1565.66619892264198 179327 rcv 1565.66619892264198 179327 rcv 1565.66619892264198 179328 rnd/DA 1565.66198922641983 179328 rcv 1565.66315967559814 179338 rcv 1565.66315967559814 179338 rcv 1565.66315967559814 179338 rcv 1565.66315967559814 179339 rcv 1565.66315967559814 179339 rcv 1565.66315967559814 179339 rcv 1565.66315967559814 179339 rcv 1565.6631596759818918918918918918918918918918918918918	A D D D D D D D D D D D D D D D D D D D D	32101 1695251 32101 1695301 32101 1695301 32101 1695401 32101 1695201 1695201 32101 1695501 32101 1695501 32101 1695501 32111 1695501 32111 169551 32111 169551 32111 169551 32111 169551 32111 32111 1695551 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111 32111	0 50 50 50 50 50 50 65 50 65 50 65 50 65 65 65 65 65 65 65 65 65 65 65 65 65	1605051 32099 1605051 32099 1605051 32101 1605051 32101 1605051 32102 1605051 32102 1605051 32102 1605051 32102 1605551 32102 1605551 32102 1605551 32102 1605551