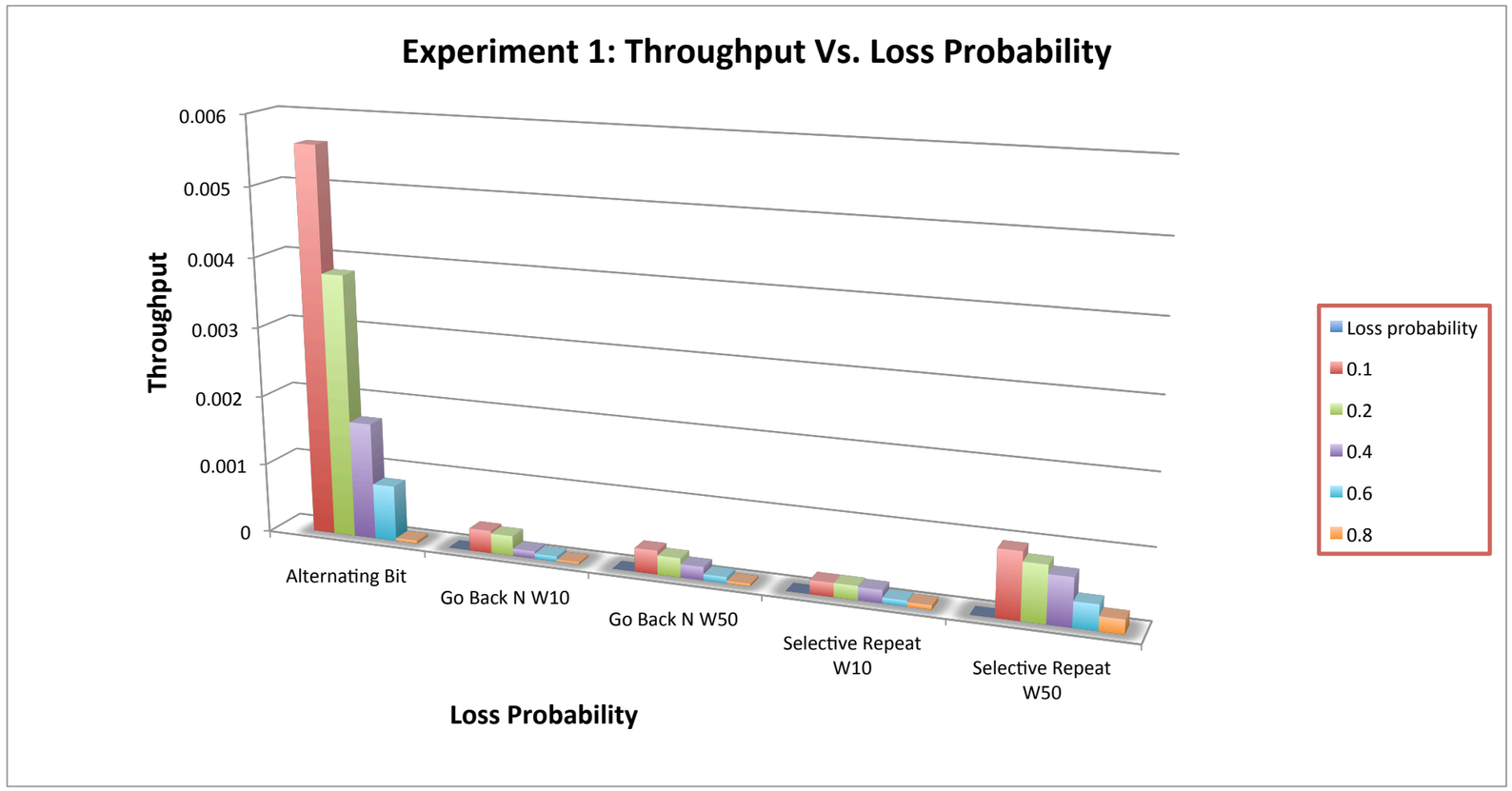
Experiment 1

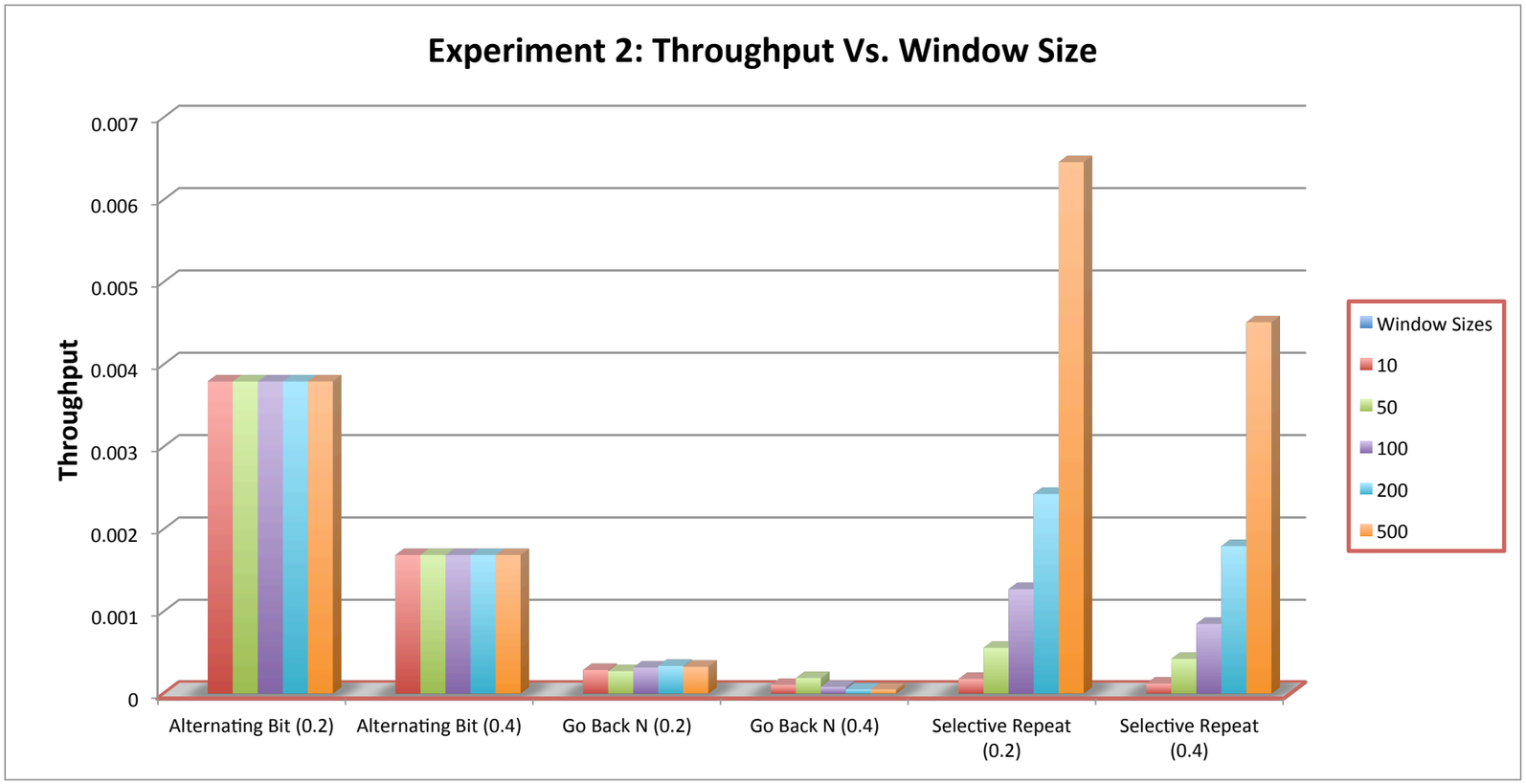
1000 packets PROTOCOLS

	Alternating Bit	Go Back N W10	Go Back N W50	Selective Repeat W10	Selective Repeat W50
Loss probability		WINDOW 10	WINDOW 50	WINDOW 10	WINDOW 50
0.1	0.005589	0.000323	0.000339	0.000198	0.000945
0.2	0.00379	0.000286	0.000272	0.000198	0.000806
0.4	0.001682	0.000105	0.000188	0.000184	0.000681
0.6	0.000803	0.000072	0.000089	0.000082	0.00036
0.8	0.000039	0.000028	0.000035	0.000061	0.000203

Experiment 2 PROTOCOLS

	Alternating Bit (0.2)	Alternating Bit (0.4)	Go Back N (0.2)	Go Back N (0.4)	Selective Repeat (0.2)	Selective Repeat (0.4)
Window Sizes						
10	0.00379	0.001682	0.000286	0.000105	0.000177	0.00012
50	0.00379	0.001682	0.000272	0.000188	0.000555	0.00042
100	0.00379	0.001682	0.000315	0.00008	0.001268	0.000846
200	0.00379	0.001682	0.000335	0.000051	0.002424	0.001791
500	0.00379	0.001682	0.000325	0.00005	0.006453	0.004509




Experiment 2: Throughput Vs. Window Size
Throughput
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
Alternating Bit (0.2)
Alternating Bit (0.4)
Go Back N (0.2)
Go Back N (0.4)
Selective Repeat (0.2)
Selective Repeat (0.4)
Window Sizes
10
50
100
200
500

Reasons: PTO

Experiment1	Observations	Reason	Agree or not
Alternating Bit	Throughput decreases when the loss probability increases	It has to resend more packets	Yes
Go back N	Throughput decreases when the loss probability increases	It sends lesser packets because of the window limitation. However, the throughput should be much higher than the alternating bit protocol. In the experiment, the window size is 10 or 50 which is why the throughput is not really high.	No, Throughput should increase. As it is sending more packets at one go.
Selective Repeat	Throughput decreases when the loss probability increases	It is much better in terms of throughput than go back N, as number of retransmitted packets are lesser as compared to Go Bank N.	No, Throughput should increase. As it is sending more packets at one go and is not retransmitting all the packets in case of a timer interrupt
Experiment2	Observations	Reason	Agree or not
Alternating Bit	Throughput has a difference of 50% as compared to loss probability 0.2 and 0.4	It is because the loss is increased by 50% and it has to now retransmit 50% more packets	Yes
Go back N	For loss 0.2 the throughput increases with the window size and decreases with 0.4 loss	more packets are sent at one go as the window is being increased. Also, for 0.4 loss the throughput decreases as more packets are to be	Other than the trend of the graph I disagree on the value of throughput, it should be much higher.

		retransmitted as compared to 0.2 loss case	
Selective Repeat	Throughput increases with the size of window in both the cases	Only those packets are retransmitted which are either lost or corrupt. Hence, the throughput decreases between 0.2 and 0.4 loss cases. However, the throughput increases when the window sizes increase, because more packets are being set at one go.	Other than the trend of the graph I disagree on the value of throughput, it should be much higher.