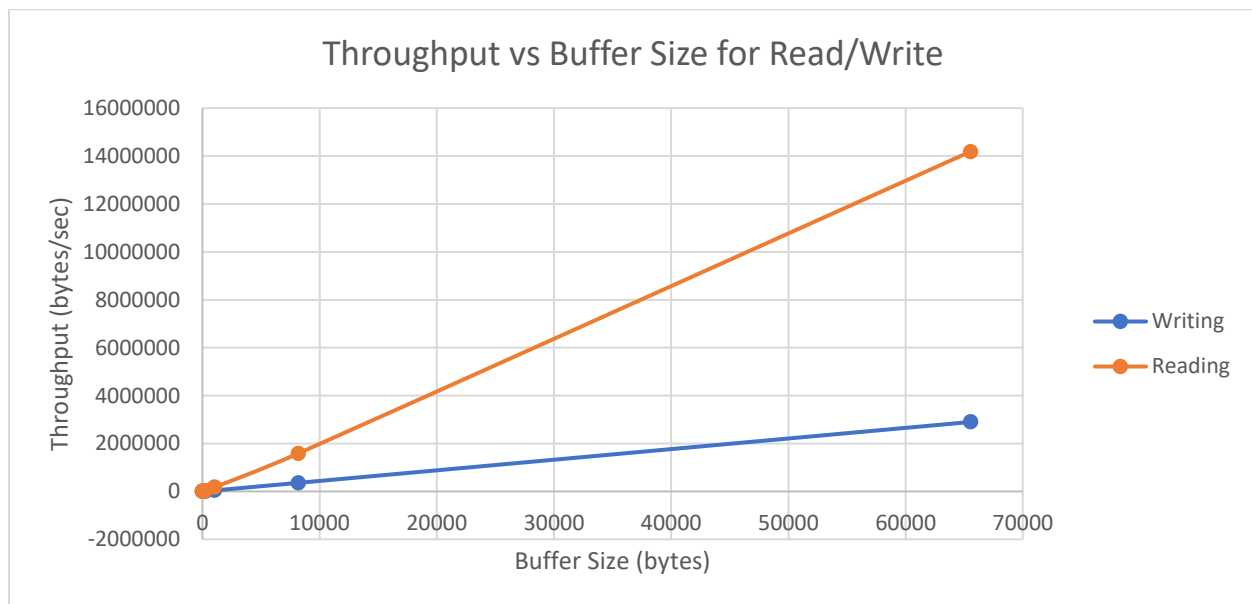


# CS250 Lab 9 Analysis

Reading/Writing with buffers

Nicholas Donahue

Buffer size (bytes)	Time to write (sec)	Write throughput (bytes/sec)	Time to read (sec)	Read throughput (bytes/sec)
1	0.558732	1.78976683	0.470102	2.12719793
32	0.040142	797.170046	0.020198	1584.31528
258	0.025026	10309.2784	0.007093	36373.8898
1024	0.024299	42141.6519	0.005812	176187.199
8192	0.02291	357573.112	0.005155	1589136.76
65536	0.022609	2898668.67	0.00462	14185281.4



As you can see from the above data, as the size of the buffer increases, so too does the time it takes to read/write as well as the throughput. The graph above shows a linear increase in throughput as buffer size increases. This is due to the larger buffer now allowing for more space to be loaded and thus we can send more information in less time rather than being bottlenecked by a smaller buffer size.