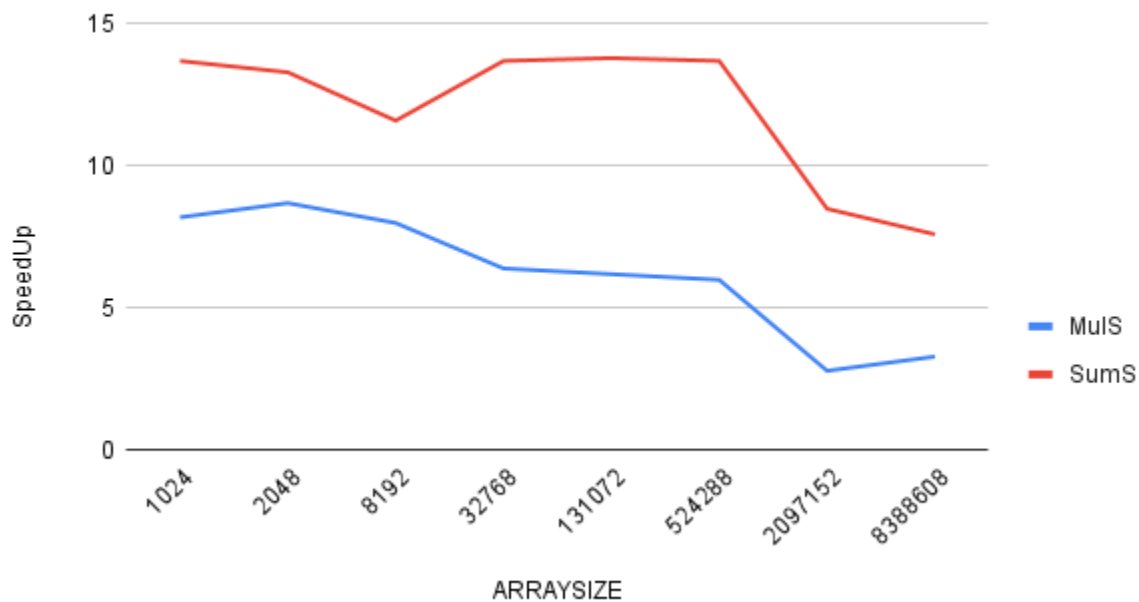


ArraySize	NSMulMaxP	SMulMaxP	MulSpeedUp	NSSumMaxP	SSumMaxP	SumSpeedUp
1024	221.7	1818.9	8.2	131.1	1790.7	13.7
2048	163.9	1433.5	8.7	103.4	1376.5	13.3
8192	168.2	1338.9	8	102.7	1191.2	11.6
32768	220.9	1423.1	6.4	131.6	1807.7	13.7
131072	221.2	1366.6	6.2	131.3	1814.7	13.8
524288	218.3	1307.1	6	129.5	1778.5	13.7
2097152	210.7	595.3	2.8	126.7	1078	8.5
8388608	214.3	707	3.3	127.7	968.9	7.6

### Speedup of SIMD and NonSIMD



1. Home desktop SSH onto Flip1 server
2. (Table above)
3. (Graph above)
4. The increases and decreases are in the same locations, overall multiplication has a smaller speedup probably because of the way it needs to move data around and keep track of its places.
5. They increase and decrease but somewhat consistently to each other.
6. The process is the same despite the array size and so the larger the array, the more math will need to be done and the less performance we will see.