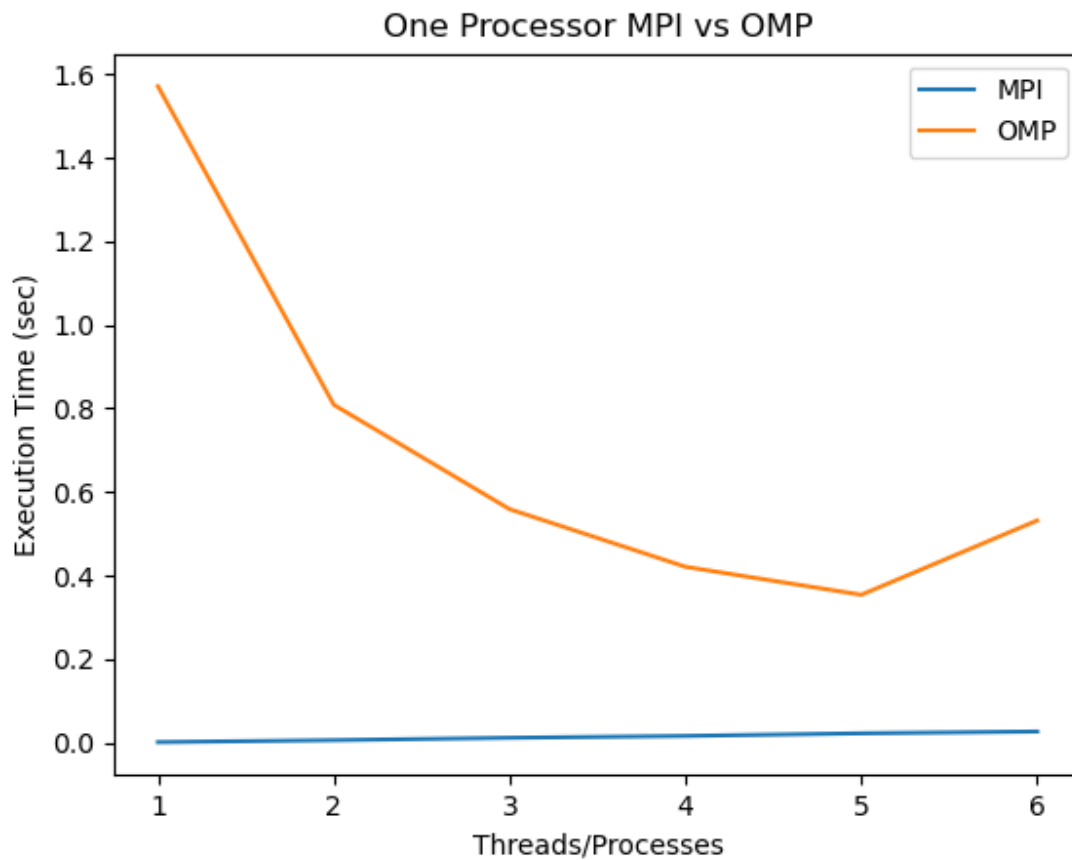
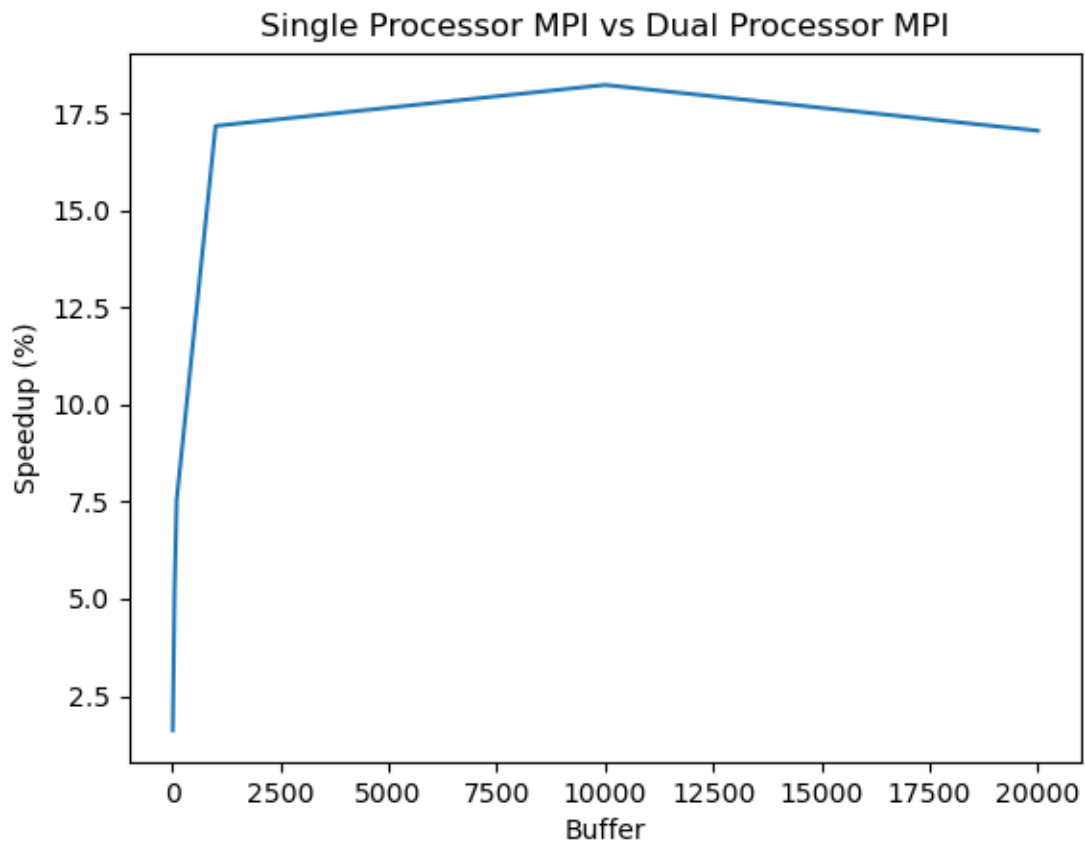


Threads	OMP	MPI
1	18.4703	0.009117
2	11.5809	0.010661
3	9.977779	0.016873
4	9.516093	0.020736
5	9.963049	0.026396
6	10.16609	0.030138



Based on this data, we can conclude that MPI is much more efficient, but it incurs overhead cost when running with more cores on a single processor. We see that OMP benefits from more threads.



Here we see that the MPI program benefits the most from a buffer size of 10000. With further testing, we may find a more optimal value in between 10k and 20k. As buffer size went up, program sped up, but at a point it stopped speeding up because the repeating of work got to be too big