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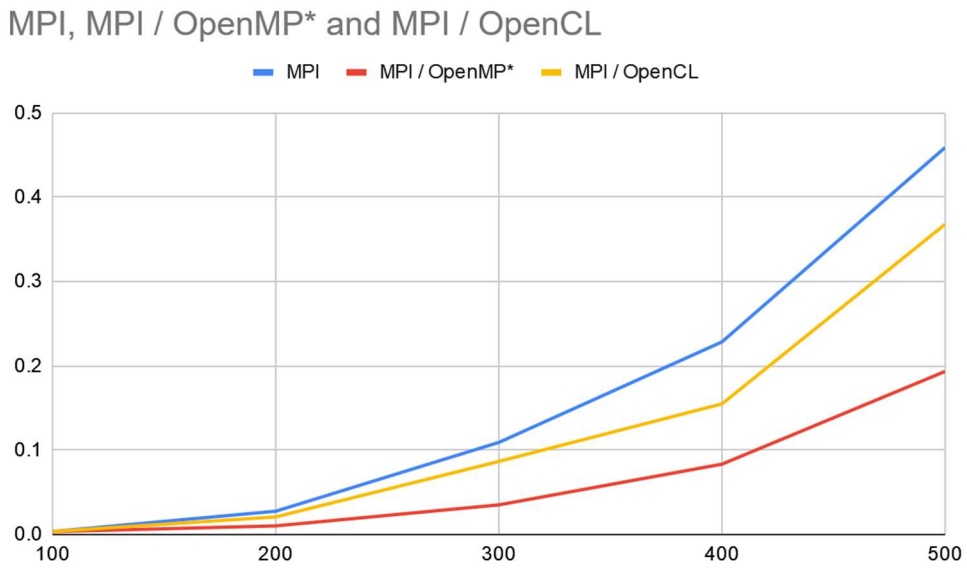
Tash M3.T1P

Activities: MPI Matrix Multiplication

Analysis on runtime:

	100	200	300	400	500
MPI	0.003534	0.027611	0.109226	0.228469	0.45904
MPI / OpenMP*	0.003399	0.010209	0.035126	0.083417	0.193429
MPI / OpenCL	0.003568	0.020871	0.086666	0.154941	0.36795



Note: OpenMP runs in 3 thread on this case

Based on my analysis, Hybrid of MPI / OpenMP runs faster than MPI and Hybrid MPI / OpenCL considering it's a hybrid, then Hybrid MPI / OpenCL and lastly, MPI only. It shows that the benefits of hybrid programming, which makes the runtime faster compared with only one parallel programming. The runtime increases at speed of O(n^2) considering that it's a matrix multiplication.