

Image size	128	256	512	768	1024
speedup	1.168241	1.152030	1.161610	1.245927	1.280747

Optimization approach:

To achieve a speed increase given the various constraints of the assignment, one method was to change the order of matrix calculations to take advantage of spatial locality. Additionally, by removing the dynamic memory allocation, we aimed to reduce the extra time consumption caused by intermediate memory allocation and deallocation.