Array Size (10,000, 100,000, 1,000,000, 10,000,000, 50,000,000, 100,000,000, 500,000,000)

Sequential Times:

10,000: 0.00107881 100,000: 0.0132131 1,000,000: 0.15462 10,000,000: 1.7883 50,000,000: 9.77209 100,000,000: 20.2987 500,000,000: 110.04

Parallel Times:

10,000: 0.001078 100,000: 0.00502471 1,000,000: 0.0619759 10,000,000: 0.647914 50,000,000: 3.35593 100,000,000: 7.07539 500,000,000: 39.0652

Speedup = sequentia(1) / parallel(T)l

Speedup:

0.00107881/0.001078 = 1.001x0.0132131/0.00502471 = 2.63x0.15462/0.0619759 = 2.495x1.7883/0.647914 = 2.76x9.77209/3.35593 = 2.912x20.2987/7.07539 = 2.869x110.04/39.0652 = 2.817x