Sciprog

Time (s) of Process for each grid size

	100*100
1	0.45296588
2	31.21312399
3	0.56063013
4	0.62187701

Serial Code : 0.23556428

Relative Speedup

	100*100
1	1
2	0.01451203283
3	0.807958502
4	0.7283849905

Relative Efficiency

	100*100
1	1
2	0.00725601641
3	0.2693195007
4	0.1820962476

Absolute Speedup

	100*100
1	0.5200486182
2	0.00754696262
3	0.4201777025
4	0.3787956078

Absolute Efficiency

	100*100
1	0.5200486182
2	0.00377348131
3	0.1400592342
4	0.09469890196

My Personal Macbook Pro

Time (s) of Process for each grid size

	100*100	300*300	500*500
1	0.1237226	6.43966727	36.50198536
2	0.14420571	3.89420562	20.13341637
3	0.13604283	2.98800597	14.3942349
4	0.14011083	2.64567671	11.80885296

Serial Code : 0.06589022

Relative Speedup

	100*100	300*300	500*500
1	1	1	1
2	0.8579590919	1.653653633	1.81300504
3	1.06000228	2.155172157	2.535875343
4	0.9709658418	2.434034077	3.091069512

Relative Efficiency

	100*100	300*300	400*400
1	1	1	1
2	0.428979546	0.8268268164	0.9065025202
3	0.3533340934	0.7183907188	0.8452917809
4	0.2427414605	0.6085085194	0.7727673781

Absolute Speedup

	100*100	300*300	500*500
1	0.5325641395	0.01023192927	0.001805113321
2	0.4569182455	0.016920067	0.003272679549
3	0.484334382	0.02205156906	0.00457754236
4	0.470272141	0.02490486451	0.005579730751

Absolute Efficiency

	100*100	300*300	400*400
1	0.5325641395	0.01023192927	0.001805113321
2	0.2284591227	0.0084600335	0.001636339774
3	0.161444794	0.00735052302	0.001525847453
4	0.1175680352	0.006226216128	0.001394932688

Some Notes :

1- Sciprog wouldnt let me to emply finer grid size

2- the sample size for Averaging is 5, although this number should increase but there is computational limits in sciprog.

3- there is a strange behaviour on sciprog when nthreads=2, the same code is compiled on my mac with nthreads=2; there is no such problem.