

In the name of GOD
multicore programming homework 2

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size 1 MB: $n = m = p = 512$

size 10 MB: $n = m = p = 1619$

size 100 MB: $n = p = 128$ $m = 204800$

1 D:

#threads								
	1 MB	Speedup	10 MB	Speedup	100 MB	Speedup	1 GB	Speedup
1	0.924300	-	40.225900	-	75.268667	-		-
2	0.596500	1.5495	21.333400	1.8855	42.078000	1.7887		
4	0.525900	1.7575	18.456000	2.1795	35.861200	2.2228		
8	0.521100	1.7737	17.937200	2.2425	33.164333	2.2695		

2 D:

#threads								
	1 MB	Speedup	10 MB	Speedup	100 MB	Speedup	1 GB	Speedup
1	1.036667	-	40.541333	-	72.407000	-		-
2	0.801333	1.2936	24.261000	1.6710	44.078000	1.6427		
4	0.620667	1.6703	19.555333	2.0731	33.519333	2.1601		
8	0.563333	1.8402	19.265333	2.1043	34.854000	2.0774		

Intel Core i7 7500U

2 Cores 4 Threads