results2

side length	maxiters	num processors	elapsed	16384²	4096²	1024²	256²
16384	20	1	155.41413	1	1	1	1
16384	20	2	91.452122	0.588441489	0.646577443	0.636911713	0.679165308
16384	20	4	57.252043	0.368383769	0.458789404	0.435670524	0.526605804
16384	20	6	61.843305	0.397925884	0.526336326	0.439109252	0.55158135
16384	20	8	57.910696	0.37262182	0.57576686	0.45340838	0.566449299
16384	20	10	55.596937	0.35773412	0.563116282	0.4394653	0.570459733
16384	20	12	56.137527	0.361212504	0.580958815	0.434386536	0.520769482
16384	20	14	60.42772	0.388817413	0.610343706	0.474121916	0.644701663
16384	20	16	55.812998	0.359124347	0.584525765	0.489146056	0.861656342
4096	20	1	9.3772				
4096	20	2	6.063086				
4096	20	4	4.30216				
4096	20	6	4.935561				
4096	20	8	5.399081				
4096	20	10	5.280454				
4096	20	12	5.447767				
4096	20	14	5.723315				
4096	20	16	5.481215				
1024	20	1	0.542061				
1024	20	2	0.345245				
1024	20	4	0.23616				
1024	20	6	0.238024				
1024	20	8	0.245775				
1024	20	10	0.238217				
1024	20	12	0.235464				
1024	20	14	0.257003				
1024	20	16	0.265147				
256	20	1	0.03067				
256	20	2	0.02083				
256	20	4	0.016151				
256	20	6	0.016917				
256	20	8	0.017373				
256	20	10	0.017496				
256	20	12	0.015972				
256	20	14	0.019773				

side length	maxiters	num processors	elapsed	64²	256²	1024²
256	20	16	0.026427			
64	20	1	0.002277	1	1	1
128	20	4	0.004798	2.107158542	1.868999934	2.011742069
256	20	16	0.024465	10.74440053	8.01441329	10.27912734
256	20	1	0.030458			
512	20	4	0.056926			
1024	20	16	0.244103			
1024	20	1	0.542068			
2048	20	4	1.090501			
4096	20	16	5.571986			

Multigrid 2d OMP

strong scaling results for four work sizes
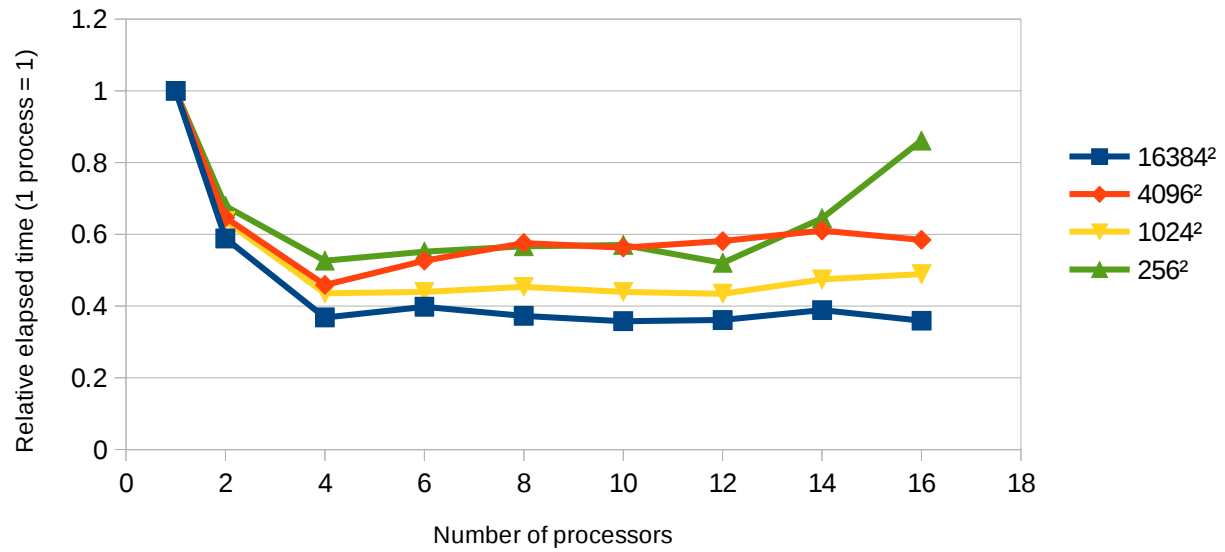
Multigrid 2d OMP

weak scaling results for three work sizes (per processor)