```
/*
    * Runtime Report In Seconds
    */

2 100    0.00e+00    2.00e-06    2.00e-06    1.00e-06    1.00e-06
2 200    2.00e-06    2.00e-06    1.00e-06    2.00e-06
4 100    1.00e-06    2.00e-06    1.00e-06    2.00e-06    1.00e-06
4 200    2.00e-06    1.00e-06    2.00e-06    1.00e-06
6 100    1.00e-06    1.00e-06    2.00e-06    2.00e-06
6 200    1.00e-06    3.00e-06    1.00e-06    2.00e-06
8 200    1.00e-06    1.00e-06    1.00e-06    2.00e-06
8 200    1.00e-06    1.00e-06    3.00e-06    2.00e-06
```

```
/*
    * Runtime Report In Seconds
    */

2 100    9.00e-06    4.50e-05    3.80e-05    9.00e-06    1.50e-05
    2 200    1.50e-05    1.50e-05    2.10e-05    2.50e-05    3.20e-05
    4 100    5.60e-05    2.30e-05    1.14e-04    2.30e-05    6.10e-05
    4 200    2.00e-05    3.80e-05    9.30e-05    2.60e-05    9.50e-05
    6 100    1.12e-04    6.80e-05    6.30e-05    4.90e-05    9.50e-05
    6 200    1.67e-04    2.30e-05    2.20e-05    3.60e-05    1.56e-04
    8 100    5.10e-05    6.00e-05    1.21e-04    4.40e-05    1.07e-04
    8 200    4.60e-05    5.20e-05    9.60e-05    2.52e-04    1.19e-04
```

```
* CPU Report
 /* CPU */
           : Intel(R) Core(TM) i7-4770K CPU @ 3.50GHz
: GenuineIntel
model name
vendor_id
cpu cores
               : 8
siblings
cache size
              : 8192 KB
 /* Calculation Reports */
 2 Cores CPU - Size Problem 100
 Try 1
   Runtime 9.00e-06 [s]
                                                                1.458325
   Process
                  Total
                         problemSize
                                           Total
                                                       Local
                                  50
                                              100
                                                     1.458325
                                  50
                                                     1.208325
                                              100
                                                                  2.666650
         1
 Try 2
   Runtime 4.50e-05 [s]
                  Total
                         problemSize
   Process
                                            Total
                                                       Local
                                                                     Total
                            50
         0
                      2
                                             100
                                                     1.458325
                                                                  1.458325
                                  50
                                              100
                                                     1.208325
         1
                                                                  2.666650
  Try 3
   Runtime 3.80e-05 [s]
                  Total problemSize
                                           Total
                                                       Local
                                                                    Total
                                  50
                                            100
                                                     1.458325
                                                                  1.458325
                      2
                                  50
                                              100
         1
                                                     1.208325
                                                                  2.666650
 Try 4
   Runtime 9.00e-06 [s]
                         problemSize
    Process
                  Total
                                            Total
                                                        Local
                                                                     Total
                            50
                                            100
                                                     1.458325
         0
                                                                  1.458325
                                  50
                                              100
                                                     1.208325
                                                                  2.666650
         1
  Try 5
   Runtime 1.50e-05 [s]
                  Total
                         problemSize
                                           Total
                                                       Local
                                                                     Total
   Process
                      2
                               50
                                            100
                                                     1.458325
         0
                                                                  1.458325
                      2
                                  50
         1
                                              100
                                                     1.208325
                                                                  2.666650
 2 Cores CPU - Size Problem 200
  Try 1
   Runtime 1.50e-05 [s]
                  Total problemSize
                                            Total
                                                        Local
                                                                     Total
         0
                                100
                                            200
                                                     1.458331
                                                                 1.458331
                      2
                      2
         1
                                 100
                                              200
                                                     1.208331
                                                                  2.666663
  Try 2
   Runtime 1.50e-05 [s]
   Process
                 Total problemSize Total Local Total
```

resurc_reporc p	ararrer cp	u.cac			•	raç
0 1	2 2	100 100	200 200	1.458331 1.208331	1.458331 2.666663	
Try 3						
Runtime 2.1	0e-05 [s]					
Process 0 1	Total 2 2	problemSize 100 100	Total 200 200	Local 1.458331 1.208331	Total 1.458331 2.666663	
Try 4						
Runtime 2.5	0e-05 [s]					
Process 0 1	Total 2 2	problemSize 100 100	Total 200 200	Local 1.458331 1.208331	Total 1.458331 2.666663	
Try 5						
Runtime 3.2	0e-05 [s]					
Process 0 1	Total 2 2	problemSize 100 100	Total 200 200	Local 1.458331 1.208331	Total 1.458331 2.666663	
4 Cores CPU -	Size Probl	em 100				
Try 1						
Runtime 5.6	0e-05 [s]					
Process 0 1 2 3	Total 4 4 4 4	problemSize 25 25 25 25 25	Total 100 100 100 100	Local 0.744788 0.713538 0.651037 0.557288	Total 0.744788 1.458325 2.109363 2.666650	
Try 2						
Runtime 2.3	0e-05 [s]					
Process 0 1 2 3	Total 4 4 4 4	problemSize 25 25 25 25 25	Total 100 100 100 100	Local 0.744788 0.713538 0.651037 0.557288	Total 0.744788 1.458325 2.109363 2.666650	
Try 3						
Runtime 1.1	4e-04 [s]					
Process 0 1 2 3	Total 4 4 4 4	problemSize 25 25 25 25 25	Total 100 100 100 100	Local 0.744788 0.713538 0.651037 0.557288	Total 0.744788 1.458325 2.109363 2.666650	
Try 4						
Runtime 2.3	0e-05 [s]					
Process 0 1 2 3	Total 4 4 4 4	problemSize 25 25 25 25 25	Total 100 100 100 100	Local 0.744788 0.713538 0.651037 0.557288	Total 0.744788 1.458325 2.109363 2.666650	
Try 5						

Try 5

Runtime 6.10e-05 [s]

Process 0 1 2 3	Total 4 4 4	problemSize 25 25 25 25 25	Total 100 100 100 100	Local 0.744788 0.713538 0.651037 0.557288	Total 0.744788 1.458325 2.109363 2.666650	
4 Cores CPU - S	Size Probl	em 200				
Try 1						
Runtime 2.00	e-05 [s]					
Process 0 1 2 3	Total 4 4 4 4	problemSize 50 50 50 50	Total 200 200 200 200	Local 0.744791 0.713541 0.651041 0.557291	Total 0.744791 1.458331 2.109372 2.666663	
Try 2						
Runtime 3.80	e-05 [s]					
Process 0 1 2 3	Total 4 4 4 4	problemSize 50 50 50 50	Total 200 200 200 200	Local 0.744791 0.713541 0.651041 0.557291	Total 0.744791 1.458331 2.109372 2.666663	
Try 3						
Runtime 9.30	e-05 [s]					
Process 0 1 2 3	Total 4 4 4 4	problemSize 50 50 50 50	Total 200 200 200 200	Local 0.744791 0.713541 0.651041 0.557291	Total 0.744791 1.458331 2.109372 2.666663	
Try 4						
Runtime 2.60	e-05 [s]					
Process 0 1 2 3	Total 4 4 4 4	problemSize 50 50 50 50	Total 200 200 200 200	0.713541 0.651041	Total 0.744791 1.458331 2.109372 2.666663	
Try 5						
Runtime 9.50e-05 [s]						
Process 0 1 2 3	Total 4 4 4 4	problemSize 50 50 50 50	Total 200 200 200 200	Local 0.744791 0.713541 0.651041 0.557291	2.109372	
6 Cores CPU - Size Problem 100						
Try 1						
Runtime 1.12e-04 [s]						
Process 0 1 2 3 4	Total 6 6 6 6 6	problemSize 16 16 16 16 16	Total 100 100 100 100 100	Local 0.478632 0.470440 0.454056 0.429480 0.396712	Total 0.478632 0.949072 1.403128 1.832608 2.229320	

result_report-parallel-cpu.txt Pag							
5	6	16	100	0.355752	2.585072		
Try 2							
Runtime 6.80e-05 [s]							
Process 0 1 2 3 4 5	Total 6 6 6 6 6	problemSize 16 16 16 16 16 16	Total 100 100 100 100 100 100	Local 0.478632 0.470440 0.454056 0.429480 0.396712 0.355752	Total 0.478632 0.949072 1.403128 1.832608 2.229320 2.585072		
Try 3							
Runtime 6.30	e-05 [s]						
Process 0 1 2 3 4 5	Total 6 6 6 6 6	problemSize 16 16 16 16 16 16	Total 100 100 100 100 100	Local 0.478632 0.470440 0.454056 0.429480 0.396712 0.355752	Total 0.478632 0.949072 1.403128 1.832608 2.229320 2.585072		
Try 4							
Runtime 4.90	e-05 [s]						
Process 0 1 2 3 4 5	Total 6 6 6 6 6	problemSize 16 16 16 16 16 16	Total 100 100 100 100 100 100	Local 0.478632 0.470440 0.454056 0.429480 0.396712 0.355752	Total 0.478632 0.949072 1.403128 1.832608 2.229320 2.585072		
Try 5							
Runtime 9.50	e-05 [s]						
Process 0 1 2 3 4 5	Total 6 6 6 6 6	problemSize 16 16 16 16 16 16	Total 100 100 100 100 100 100	Local 0.478632 0.470440 0.454056 0.429480 0.396712 0.355752	Total 0.478632 0.949072 1.403128 1.832608 2.229320 2.585072		
6 Cores CPU - Size Problem 200							
Try 1							
Runtime 1.67	7e-04 [s]						
Process 0 1 2 3 4 5	Total 6 6 6 6 6	problemSize	Total 200 200 200 200 200 200	Local 0.493502 0.484518 0.466549 0.439596 0.403659 0.358738	Total 0.493502 0.978020 1.444569 1.884165 2.287825 2.646563		
Try 2							
Runtime 2.30e-05 [s]							
Process 0 1 2	Total 6 6 6	problemSize 33 33 33	Total 200 200 200	Local 0.493502 0.484518 0.466549	Total 0.493502 0.978020 1.444569		

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Runtime 1.21	e-04 [s]				
Process 0 1 2 3 4 5 6 7	Total 8 8 8 8 8 8	problemSize	Total 100 100 100 100 100 100 100	Local 0.359422 0.355966 0.349054 0.338686 0.324862 0.307582 0.286846 0.262654	Total 0.359422 0.715388 1.064442 1.403128 1.727990 2.035572 2.322418 2.585072
Try 4					
Runtime 4.40	e-05 [s]				
Process 0 1 2 3 4 5 6	Total 8 8 8 8 8 8 8	problemSize 12 12 12 12 12 12 12 12 12	Total 100 100 100 100 100 100 100	Local 0.359422 0.355966 0.349054 0.338686 0.324862 0.307582 0.286846 0.262654	Total 0.359422 0.715388 1.064442 1.403128 1.727990 2.035572 2.322418 2.585072
Try 5					
Runtime 1.07	e-04 [s]				
Process 0 1 2 3 4 5 6 7	Total 8 8 8 8 8 8 8	problemSize	Total 100 100 100 100 100 100 100	Local 0.359422 0.355966 0.349054 0.338686 0.324862 0.307582 0.286846 0.262654	Total 0.359422 0.715388 1.064442 1.403128 1.727990 2.035572 2.322418 2.585072
8 Cores CPU - S	ize Probl	em 200			
Try 1					
Runtime 4.60	e-05 [s]				
Process 0 1 2 3 4 5 6	Total 8 8 8 8 8 8 8	problemSize	Total 200 200 200 200 200 200 200 200 200	Local 0.374348 0.370442 0.362630 0.350911 0.335286 0.315755 0.292317 0.264973	Total 0.374348 0.744791 1.107420 1.458331 1.793617 2.109372 2.401689 2.666663
Try 2					
Runtime 5.20	e-05 [s]				
Process 0 1 2 3 4 5 6	Total 8 8 8 8 8 8 8	problemSize 25 25 25 25 25 25 25 25 25	Total 200 200 200 200 200 200 200 200 200	Local 0.374348 0.370442 0.362630 0.350911 0.335286 0.315755 0.292317 0.264973	Total 0.374348 0.744791 1.107420 1.458331 1.793617 2.109372 2.401689 2.666663

Try 3

resurt_report-parallel-cpu.txt						
Runtime 9.6	0e-05 [s]					
Process 0 1 2 3 4 5 6	Total 8 8 8 8 8 8	problemSize 25 25 25 25 25 25 25 25 25 25	Total 200 200 200 200 200 200 200 200 200	Local 0.374348 0.370442 0.362630 0.350911 0.335286 0.315755 0.292317 0.264973	Total 0.374348 0.744791 1.107420 1.458331 1.793617 2.109372 2.401689 2.666663	
Try 4						
Runtime 2.5	2e-04 [s]					
Process 0 1 2 3 4 5 6	Total 8 8 8 8 8 8 8	problemSize 25 25 25 25 25 25 25 25 25 25	Total 200 200 200 200 200 200 200 200 200 20	Local 0.374348 0.370442 0.362630 0.350911 0.335286 0.315755 0.292317 0.264973	Total 0.374348 0.744791 1.107420 1.458331 1.793617 2.109372 2.401689 2.666663	
Try 5						
Runtime 1.1	9e-04 [s]					
Process 0 1 2 3 4 5 6	Total 8 8 8 8 8 8 8	problemSize 25 25 25 25 25 25 25 25 25 25	Total 200 200 200 200 200 200 200 200 200	Local 0.374348 0.370442 0.362630 0.350911 0.335286 0.315755 0.292317 0.264973	Total 0.374348 0.744791 1.107420 1.458331 1.793617 2.109372 2.401689 2.666663	