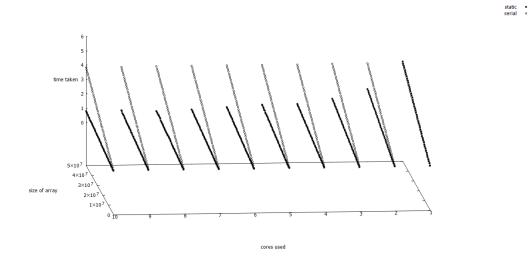
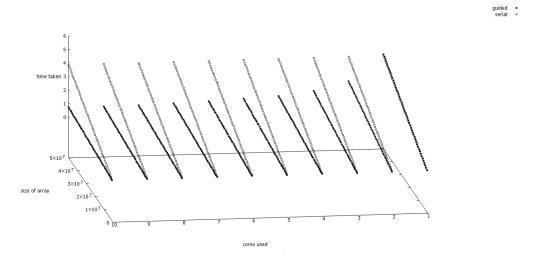
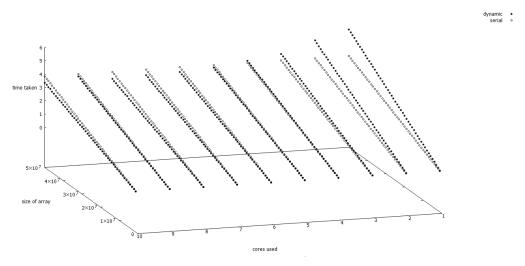
Assignment 2 Comparison of Serial implementation vs OpenMP By Robert Johnson 200962268

November 23, 2017

1 Results OpenMP







Array Size	# of cores	Static vs Serial	Guided vs Serial	Dynamic vs Serial
1000000	1	5.15% Slower	2.8% Slower	34.22% Slower
50000000	1	2.44% Slower	2.89% Slower	34.19% Slower
1000000	2	86.58% Faster	85.55% Faster	25.28% Slower
50000000	2	87.09% Faster	86.62% Faster	25.88% Slower
1000000	3	164.64% Faster	164.84% Faster	12.38% Slower
50000000	3	170.02% Faster	169.64% Faster	11.68% Slower
1000000	4	236.21% Faster	234.87% Faster	4.4% Slower
50000000	4	246.3% Faster	245.07% Faster	3.98% Slower
1000000	5	235.65% Faster	277.3% Faster	4.85% Faster
50000000	5	258.52% Faster	278.54% Faster	5.27% Faster
1000000	6	292.68% Faster	312.04% Faster	10.01% Faster
50000000	6	308.79% Faster	336.38% Faster	10.19% Faster
1000000	7	348.89% Faster	362.41% Faster	10.77% Faster
50000000	7	370.24% Faster	376.98% Faster	12.71% Faster
1000000	8	401.28% Faster	400.07% Faster	15.04% Faster
50000000	8	428.88% Faster	427.96% Faster	15.87% Faster
1000000	9	245.03% Faster	404.31% Faster	5.04% Faster
50000000	9	369.78% Faster	431.16% Faster	5.11% Faster
1000000	10	276.76% Faster	342.62% Faster	13.23% Faster
50000000	10	390.43% Faster	421.92% Faster	14.1% Faster

2 Results MPI



Figure 1: Data from Appendix 6.5

3 OpenMP: Different types of scheduling

3.1 Static

When a user specifies their task to be sent to multiple threads using static scheduling it is split into equal chunks depending on the amount of threads the user would like to use, these chunks are then sent to each thread who then carry out the jobs within the chunks. One advantage to this type of scheduling technique is that the overhead is low due to only having to work out the size of the chunks being sent to each thread additionally due to the way this scheduling technique works we do not have to wait for tasks to be completed by threads before sending more jobs which means less communication which means more processing time, however it performs badly on jobs that have a large standard deviation on execution time.

3.2 Dynamic

When a user specifies their information to be sent to multiple threads using dynamic scheduling it is split into chunks of "N" size, by default N is 1 and therefore each thread is sent 1 job each, once the thread completes it's job it then returns and requests another job (no matter the order the jobs were sent initially).

Suppose that there are two threads who want to complete 4 jobs, each requests a job, and starts it, assume that thread 2 completes it's job first, and therefore requests another job, now consider the possibility that thread 2 also completes its second job before thread 1 completes its first job, thread 2 would now be sent another job, this differs from static scheduling where thread 1 and 2 would receave 2 jobs each. This scheduling excels at jobs that take different amounts of time to complete as showin the the example above, where job 1 takes significantly more time to complete than job 2, 3 and 4.

3.3 Guided

When using this sceduling method we distribute jobs unevenly in a specific fashion, each thread is given a chunk of the main problem we are trying to solve, such that we have jobs still left to complete, after a thread completes its job, we send a chunk of smaller size than previously given to any thread, this continues until all jobs have been completed, however we can see that in this fashion we allow for more communication towards the end of a group of tasks allowing for it to perform well on problems which have a small standard deviation on jobs at the start of a group and a large deviation towards the end of the group.

To show this suppose we have 10 jobs, and 3 threads, suppose we send

- 3 jobs to thread 1,
- 3 jobs to thread 2,
- 2 jobs to thread 3,

Suppose that thread 3 completes all jobs it was given before thread 1 or thread 2 completed theirs,

- 1 job to thread 3,
- Suppose that thread 2 completes all jobs given,
- 1 job to thread 2

4 Analysis

From the results we can see that two of the three different scheduling techniques performed strictly better than their serial counterparts, both guided and static performing similarly, however when we look at dynamic we can see that the scheduling technique actually performed worse on smaller core sizes, I hypothesise that this may be due to the overhead required by each core to request information, each block of information being only of length one by default, we can see however at larger core sizes the parallel version actually comes out slightly ahead, this is because the time saved by splitting the information between threads actually overcomes the loss due to requests.

Now looking at static and guided, we can see that they performed similarly this is what we would expect, since the only difference is that guided "adjusts" to accommodate imbalanced towards the end of a group of problems, since the problem has the same runtime of each this should only be used a few times, interestingly enough the speed for guided was generally better than that of serial despite the same number of operations being carried out be each process, it would be interesting to look into why this may be, and retesting may be required to check that it wasn't caused by how each type of scheduling technique was time sliced.

Additionally when comparing results from our implementation of MPI for the same problem we can see that openMP significantly outperfromed MPI, this is due to the fact that accessing shared memory is magnitutes quicker than sending data between nodes and therefore any communication within MPI becomes the largest factor in runtime by the same point openMP is almost not effected by communication due to the fact of shared memory.

However OpenMP is limited to amount of core's within a machine whereas MPI is restricted by the amount of machines in a cluster and therefore can be expended infinately. We can gain the benefit of both of these tools using MPI to split data between within a cluster and then use openmp to split data on a specific machine in the cluster.

Finally I did test this on higher process's however due to the machine that I was working on only containing 8 cores it became ineffective to add more cores after this.

5 Future research

It would be interesting to look into how different sub categories of each scheduler effects performance of that scheduler for example instead of splitting in static scheduling on Size/process's it would be interesting to look at what happens if we were to decrease the chunks such that multiple are sent.

Appendix 6

6.1 Serial

Array Size — Amount of Cores — Time taken

· ·		
1000000	1	0.076746
2000000	1	0.153803
3000000	1	0.230841
4000000	1	0.307905
5000000	1	0.384589
6000000	1	0.461228
7000000	1	0.538247
8000000	1	0.614654
9000000	1	0.691739
1000000	1	0.768908
11000000	1	0.845954
12000000	1	0.923299
13000000	1	1.000577
14000000	1	1.078217
15000000	1	1.154019
16000000	1	1.231220
17000000	1	1.308151
18000000	1	1.386996
19000000	1	1.465055
20000000	1	1.539991
21000000	1	1.632588
22000000	1	1.695021
23000000	1	1.771011
24000000	1	1.847788
25000000	1	1.926019
26000000	1	2.001719
27000000	1	2.078498
28000000	1	2.155805
29000000	1	2.232671
30000000	1	2.308913
31000000	1	2.386047
32000000	1	2.468482
33000000	1	2.540921
34000000	1	2.618666
35000000	1	2.694065
36000000	1	2.773635
37000000	1	2.849109
38000000	1	2.925690
39000000	1	3.015098
40000000	1	3.086023
41000000	1	3.157382
	1	
42000000	-	3.237627
43000000	1	3.312711
44000000	1	3.389506
45000000	1	3.464515
46000000	1	3.543844
47000000	1	3.622308
48000000	1	3.694698
49000000	1	3.771356
50000000	1	3.848605

6.2Guided

1000000

Array Size — Amount of Cores — Time taken

```
\begin{array}{c} 0.078960 \\ 0.158276 \\ 0.237474 \\ 0.316792 \\ 0.396144 \\ 0.475142 \\ 0.553861 \\ 0.791590 \\ 0.870567 \\ 0.791590 \\ 0.870567 \\ 0.949639 \\ 1.029180 \\ 1.109068 \\ 1.188445 \\ 1.267846 \\ 1.346982 \\ 1.426654 \\ 1.505781 \\ 1.584571 \\ 1.664198 \\ 1.743264 \\ 1.822587 \\ 1.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.218535 \\ 2.297962 \\ 2.377012 \\ 2.318541 \\ 2.31877012 \\ 2.31871712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.31854180 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318541712 \\ 2.318
              1000000
2000000
3000000
4000000
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10000000

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120000000

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160000000

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210000000

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380000000

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380000000

380000000
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```

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	1	3.404070
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44000000	1	3.483231
45000000	1	3.563401
46000000	1	3.642986
47000000	1	3.720911
48000000	1	3.802374
49000000	1	3.880266
50000000	1	3.963309
1000000	2	0.041362
2000000	2	0.082754
	2	
3000000		0.124662
4000000	2	0.166325
5000000	2	0.207698
6000000	2	0.247841
7000000	2	0.289852
8000000	2	0.329491
9000000	2	0.373208
	2	0.414446
10000000		0.414440
11000000	2	0.453682
12000000	2	0.495412
13000000	2	0.536146
14000000	2	0.577861
15000000	2	0.618595
16000000	2	0.660210
17000000	2	0.702675
	2	0.702073
18000000	2	0.742370
19000000	2	0.784432
20000000	2	0.825155
21000000	2	0.868398
22000000	2	0.908353
23000000	2	0.954625
24000000	2	0.989379
25000000	2	1.031290
26000000	2	1.031290
27000000	2	1.119570
28000000	2	1.159627
29000000	2	1.202455
30000000	2	1.240473
31000000	2	1.277655
32000000	2	1.318816
33000000	2	1.360482
34000000	2	1.401964
35000000	2	1.442936
36000000	2	1.489619
37000000	2	1.529308
38000000	2	1.565938
39000000	2	1.609323
40000000	2	1.651353
41000000	2	1.690507
42000000	2	1.731546
43000000	2	1.772930
44000000	2	1.813848
45000000	2	1.854825
46000000	2	1.901210
47000000	2	1.937254
48000000	2	1.978765
49000000	2	2.020837
50000000	2	2.062308
1000000	3	0.028978
2000000	3	0.057720
3000000	3	0.086344
4000000	3	0.114919
5000000	3	0.143594
6000000	3	0.172120
7000000	3	0.200609
8000000	3	0.228878
9000000	3	0.257332
10000000	3	0.285947
11000000	3	0.314459
12000000	3	0.343128
13000000	3	0.371904
14000000	3	0.402928
15000000	3	0.429335
16000000	3	0.457816
17000000	3	0.489377
18000000	3	0.514776
19000000	3	0.543723
20000000	3	0.572181
21000000	3	0.600629
22000000	3	0.629010
23000000	3	0.661499
24000000	3	0.686398
25000000	3	0.714796
26000000	3	0.743572
27000000	3	0.771866
28000000	3	0.800096
29000000		
30000000	3	0.833444
31000000	3	0.857429
32000000		
33000000	3	$\begin{smallmatrix} 0.857429 \\ 0.886196 \end{smallmatrix}$
	3 3 3	0.857429 0.886196 0.914557
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35000000 36000000 37000000	3 3 3 3 3 3 3 3 3	$\begin{array}{c} 0.857429 \\ 0.886196 \\ 0.914557 \\ 0.946354 \\ 0.971401 \\ 1.000021 \\ 1.032035 \\ 1.056961 \end{array}$
35000000 36000000	3 3 3 3 3 3 3	$\begin{array}{c} 0.857429 \\ 0.886196 \\ 0.914557 \\ 0.946354 \\ 0.971401 \\ 1.000021 \\ 1.032035 \\ 1.056961 \\ 1.085386 \end{array}$
35000000 36000000 37000000 38000000	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c} 0.857429 \\ 0.886196 \\ 0.914557 \\ 0.946354 \\ 0.971401 \\ 1.000021 \\ 1.032035 \\ 1.056961 \\ 1.085386 \end{array}$
35000000 36000000 37000000 38000000 39000000	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c} 0.857429 \\ 0.886196 \\ 0.914557 \\ 0.946354 \\ 0.971401 \\ 1.000021 \\ 1.032035 \\ 1.056961 \\ 1.085386 \\ 1.113588 \end{array}$
35000000 36000000 37000000 38000000 39000000 40000000	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.857429 0.886196 0.914557 0.946354 0.971401 1.000021 1.032035 1.056961 1.13588 1.143650
35000000 36000000 37000000 38000000 40000000 41000000	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c} 0.857429 \\ 0.886196 \\ 0.914557 \\ 0.946354 \\ 1.000021 \\ 1.032035 \\ 1.056961 \\ 1.13588 \\ 1.113588 \\ 1.113585 \\ 1.171631 \end{array}$
35000000 36000000 37000000 38000000 40000000 41000000 42000000	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c} 0.857429 \\ 0.886196 \\ 0.914557 \\ 0.946354 \\ 0.971401 \\ 1.000021 \\ 1.032035 \\ 1.156961 \\ 1.085386 \\ 1.113588 \\ 1.143650 \\ 1.171631 \\ 1.179835 \end{array}$
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35000000 36000000 37000000 38000000 40000000 41000000 42000000 44000000 45000000 47000000 47000000 48000000	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.857429 0.88619 0.914557 0.946354 1.000021 1.000021 1.032035 1.056961 1.13588 1.143650 1.17163 1.199835 1.227460 1.256195 1.284026 1.31401 1.346031 1.369908

2000000	4	0.045476
3000000	4	0.067883
4000000	4	0.090275
5000000	4	0.112699
6000000	4	0.135065
7000000	4	0.157299
8000000	4	0.179425
9000000	4	0.201714
10000000	4	0.223992
11000000	4	0.253943
12000000	4	0.268806
13000000	4	0.291205
14000000	4	0.313760
15000000	4	0.336201
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18000000	4	0.403176
19000000	4	0.425443
		0.423440
20000000	4	0.447904
21000000	4	0.470111
22000000	4	0.492343
23000000	4	0.514640
24000000	4	0.537104
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27000000	4	0.603844
28000000	4	0.626201
29000000	4	0.648409
30000000	4	0.670854
31000000	4	0.692925
32000000	4	0.715324
		0.710024
33000000	4	0.737508
34000000	4	0.759977
35000000	4	0.782157
36000000	4	0.804336
37000000	4	0.826584
38000000	4	0.848830
39000000	4	0.870876
40000000	4	0.893299
41000000	4	0.893299
42000000	4	0.937600
43000000	4	0.960002
44000000	4	0.982078
45000000	4	1.004210
46000000	4	1.026627
47000000	4	1.048801
48000000	4	1.070923
49000000	4	1.093622
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2000000	5	0.040288
3000000	5	0.060148
4000000	5	0.079939
5000000	5	0.100502
6000000	5	0.119503
7000000	5	0.139053
8000000	5	0.157943
9000000	5	0.182332
10000000	5	0.197565
11000000	5	0.214855
12000000	5	0.237302
13000000	5	0.259088
14000000	5	0.277030
15000000	5	0.297995
16000000	5	0.316766
17000000	5	0.336518
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20000000	5	0.409752
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22000000	5	0.430072
23000000	5	0.468647
24000000	5	0.473841
25000000	5	0.494369
26000000	5	0.519548
27000000	5	0.536884
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38000000		
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	6 6	0.109448
	6 6 6	$0.109448 \\ 0.125087$
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31000000 32000000 33000000 3400000 35000000	7	$\begin{array}{c} 0.505943 \\ 0.521293 \\ 0.530358 \\ 0.546877 \\ 0.563046 \\ 0.580276 \\ 0.604557 \end{array}$
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3100000 32000000 33000000 3400000 35000000 3700000 38000000 39000000	7	$\begin{array}{c} 0.505943 \\ 0.521293 \\ 0.530358 \\ 0.546877 \\ 0.563046 \\ 0.580276 \\ 0.604557 \\ 0.611399 \\ 0.627161 \end{array}$
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31000000 32000000 33000000 34000000 35000000 37000000 38000000 39000000 40000000 41000000	7	$\begin{array}{c} 0.505943 \\ 0.521293 \\ 0.530358 \\ 0.546877 \\ 0.563046 \\ 0.580276 \\ 0.604557 \\ 0.611399 \\ 0.627161 \\ 0.647601 \\ 0.660044 \end{array}$
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31000000 32000000 34000000 35000000 36000000 37000000 39000000 41000000 42000000 43000000	7	0.505943 0.521293 0.530358 0.546877 0.563046 0.604557 0.6113399 0.627161 0.660044 0.671747 0.699446
31000000 32000000 33000000 34000000 35000000 36000000 37000000 38000000 40000000 41000000 42000000	7	0.505943 0.521293 0.530358 0.546877 0.563046 0.580276 0.604557 0.611399 0.627161 0.660044 0.671747 0.699446 0.705594
31000000 32000000 34000000 34000000 35000000 37000000 39000000 40000000 41000000 42000000 44000000 44000000 45000000 46000000	7	0.505943 0.521293 0.530358 0.546877 0.563046 0.580276 0.604557 0.611399 0.627161 0.647601 0.660044 0.671747 0.699446 0.705594 0.726799 0.736239
31000000 32000000 33000000 34000000 35000000 36000000 37000000 38000000 41000000 42000000 42000000 44000000 45000000 44000000	7	0.505943 0.521293 0.530358 0.546877 0.563046 0.580276 0.604557 0.611399 0.627161 0.660044 0.671747 0.699446 0.705594 0.726799 0.736239 0.755889
31000000 32000000 32000000 34000000 35000000 36000000 37000000 4000000 41000000 44000000 44000000 445000000 45000000 447000000 447000000	7 7 7 7 7 7 7 7 7	0.505943 0.521293 0.530358 0.546877 0.563046 0.580276 0.604557 0.611399 0.627161 0.660044 0.671747 0.699446 0.705594 0.726799 0.736239 0.755889 0.755889
31000000 32000000 33000000 34000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 45000000 47000000 47000000 48000000	7 7 7 7 7 7 7 7 7	0.505943 0.521293 0.530358 0.546877 0.563046 0.604557 0.611399 0.627161 0.660044 0.671747 0.699446 0.705594 0.726799 0.736239 0.755889 0.767534
31000000 32000000 33000000 34000000 35000000 36000000 37000000 40000000 41000000 42000000 44000000 45000000 45000000 48000000 48000000 49000000	7 7 7 7 7 7 7 7 7 7	0.505943 0.521293 0.530358 0.546877 0.563046 0.604557 0.611399 0.627161 0.667044 0.671747 0.699446 0.70559 0.736239 0.7555889 0.767534 0.787186 0.806876
31000000 32000000 32000000 34000000 35000000 36000000 38000000 40000000 41000000 44000000 44000000 45000000 47000000 48000000 48000000 50000000 50000000	7 7 7 7 7 7 7 7 7 7 7 7	0.505943 0.521293 0.530358 0.546877 0.563046 0.580276 0.604557 0.611399 0.627161 0.647601 0.699446 0.705594 0.726799 0.736239 0.755889 0.767534 0.787186 0.806876 0.015347
31000000 32000000 33000000 34000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 44000000 45000000 47000000 48000000 50000000 1000000	7 7 7 7 7 7 7 7 7 7 7 7 7 8 8	0.505943 0.521293 0.530358 0.546877 0.563046 0.604557 0.611399 0.627161 0.647601 0.669044 0.705594 0.726799 0.736239 0.755889 0.767534 0.896876 0.015347
31000000 32000000 32000000 34000000 35000000 36000000 37000000 4000000 41000000 44000000 44000000 45000000 47000000 47000000 48000000 48000000 49000000 2000000 30000000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.505943 0.521293 0.530358 0.546877 0.563046 0.580276 0.604557 0.611399 0.627161 0.660044 0.7075594 0.726799 0.736239 0.755889 0.767534 0.806876 0.806876 0.015347 0.030237 0.030237 0.0344980
31000000 32000000 33000000 34000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 44000000 45000000 47000000 48000000 50000000 1000000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.505943 0.521293 0.530358 0.546877 0.563046 0.604557 0.611399 0.627161 0.660044 0.671747 0.699446 0.705594 0.726799 0.736239 0.755889 0.767534 0.806876 0.015347 0.030237 0.044980 0.059739
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31000000 32000000 33000000 34000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 45000000 45000000 47000000 48000000 49000000 49000000 49000000 49000000 50000000 50000000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.505943 0.521293 0.530358 0.546877 0.563046 0.604557 0.611399 0.627161 0.667044 0.671747 0.699446 0.7055989 0.736239 0.755889 0.767534 0.787186 0.806876 0.015347 0.044980 0.059739 0.074459 0.089147 0.103710
31000000 32000000 32000000 34000000 35000000 36000000 37000000 40000000 41000000 42000000 44000000 45000000 47000000 47000000 2000000 1000000 2000000 50000000 6000000 7000000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.505943 0.521293 0.530358 0.546877 0.563046 0.580276 0.604557 0.611399 0.627161 0.660044 0.671747 0.699446 0.705594 0.726799 0.736239 0.755889 0.7675389 0.7675389 0.7675394 0.1015347 0.030237 0.044980 0.059739 0.074459 0.089147 0.103710 0.119350
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31516 45006 45006 88866 88866 81253 31293 44703 62556 62556 63013 33283 33689 6667 65013 96006 973
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11 2 5 3 5 3 1 2 9 7 4 4 9 2 3 1 4 4 7 0 3 5 6 2 5 5 6 7 8 5 4 7 9 3 3 9 8 2 4 9 4 1 3 3 6 8 9 7 5 6 6 8 6 5 0 1 7 7 6 6 8 6 9 1 2 0 6 9 7 3
3129' 4923: 47038 62556 7854' 93398 2494: 3283' 3689' 68678 6501' 76686 91206
31297 49231 47035 62550 78547 93398 24941 32837 36897 66675 65017 76680 91200 66973
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47038 62556 78547 93398 224941 32837 36897 68678 65017 76686 91206
62550 78547 93398 24947 32837 36897 68675 65017 76680 91200 06973
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93398 24941 32837 36897 68675 65017 76680 91200 06973
24941 32837 36897 68675 65017 76680 91200
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6365551768 81022991021 112755551768 8061709 807792224993 80714 807
3 9 5 4 6 3 7 7 9 3 0 7 2 4 3 7

6.3 Dynamic

Array Size — Amount of Cores — Time taken

rinay	DIZC .	illiouni	OI	COI	_
1000000	1	1	0.11	6678	
2000000		1		3901	
3000000		1	0.35	0826	
4000000		1		7661	
5000000		1	0.58	4899	
6000000		1	0.70	1356	
7000000 8000000		1		7536	
9000000		1		$4400 \\ 1186$	
1000000		1	1 16	8617	
1100000		1	1.28	$8617 \\ 6146$	
1200000		1	1.40	3109	
1300000	0	1	1.51	9565	
1400000		1	1.63	6986	
1500000		1	1.75	4291	
1600000		1	1.87	2602	
1700000 1800000		1	1.98	8156	
1900000		1	2.10	$5850 \\ 2307$	
2000000		1	2.34	0440	
2100000		1	2.45	5851	
2200000		1	2.57	4008	
2300000		1	2.69	0932	
2400000		1	2.80	7175	
2500000		1	2.92	$3893 \\ 1565$	
2600000		1	3.04	1565	
2700000 2800000		1	3.10	$0218 \\ 4843$	
2900000		1	3 30	3929	
3000000		1	3.50	9836	
3100000		1	3.62	7101	
3200000	0	1	3.74	4339	
3300000		1	3.86	0560	
3400000		1	3.97	7942	
3500000		1	4.09	$\begin{array}{c} 3440 \\ 0743 \end{array}$	
3600000 3700000		1	4.21	7642	
3800000		1	4.32	6550	
3900000		1	4.56	1874	
4000000		1	4.67	$1874 \\ 8228$	
4100000		1	4.79	3611	
4200000		1	4.91	0355	
4300000		1	5.02	7762	
4400000		1	5.14	$8842 \\ 4454$	
4500000		1	5.26	8911	
4600000 4700000		1	5.50	1056	
4800000		1	5.61	3983	
4900000		1	5.72	9380	
5000000	0	1	5.84	$9380 \\ 7780$	
1000000		2	0.10	2713	
2000000		2	0.20	5821	
3000000		2	0.30	8399	
4000000 5000000		2 2	0.41	$\begin{array}{c} 0918 \\ 3719 \end{array}$	
6000000		2	0.51	6180	
7000000		2	0.71	9671	
8000000		2	0.82	1295	
9000000		2	0.92	7882	
1000000		2	1.03	3326	
1100000		2	1.12	$9289 \\ 5403$	
1200000		2 2	1.23	5403	
1300000 1400000		2		1700	
1500000		2	1 54	$1700 \\ 6191$	
1600000		2		6558	
1700000		2	1.74	8340	
1800000		2 2	1.84	9008	
1900000		2	1.95	4976	
2000000		2		1965	
2100000		2 2	2.15	8477	
2200000		2	2.26	$2000 \\ 7331$	
2400000		2 2	2.47	2800	
2500000		2	2.47 2.57	4271	
2600000		2	2.67	2324	
2700000		2	2.77	8947	
2800000		2 2	2.87	9263	
2900000		2	2.98	6923	
3000000		2 2	3.08	8449	
3100000		2	3.18	8176	

32000000	2	3.289348
33000000	2	3.391261
34000000	2	3.494538
35000000	2	3.606683
36000000	2	3.700820
37000000	2	3.804951
38000000	2	3.907827
39000000	2	4.009485
40000000	2	4.112471
41000000	2	4.224700
42000000	2	4.320244
43000000	2	4.438818
44000000	2	4.533182
		4.633481
45000000	2	
46000000	2	4.735178
47000000	2	4.831608
48000000	2	4.934141
49000000	2	5.080143
		5.000140
50000000	2	5.192479
1000000	3	0.087589
2000000	3	0.174541
3000000	3	0.262160
4000000	3	0.349956
5000000	3	0.435859
6000000	3	0.524675
7000000	3	0.610195
		0.617100
8000000	3	0.697400
9000000	3	0.784032
10000000	3	0.870276
11000000	3	0.958541
12000000	3	1.045692
13000000	3	1.132414
14000000	3	1.219881
15000000	3	1.307890
16000000	3	1.394084
17000000	3	1.482020
18000000	3	1.569297
19000000	3	1.656486
20000000	3	1.742569
21000000	3	1.829891
22000000	3	1.917170
23000000	3	2.005027
24000000	3	2.091587
25000000	3	2.178802
26000000	3	2.265680
27000000	3	2.352863
28000000	3	2.449105
29000000	3	2.527551
30000000	3	2.618825
31000000	3	2.701560
32000000	3	2.789728
33000000	3	2.876650
34000000	3	2.963425
35000000	3	3.061608
36000000	3	3.137412
37000000	3	3.224754
38000000	3	3.317404
39000000	3	3.408574
40000000		
	3	3.486225
41000000	3	3.574654
42000000	3	3.668315
43000000	3	3.748396
44000000	3	
45000000	3	3.834489
46000000		3.923646
		3.923646
47000000	3	3.923646 4.015065
47000000	3	3.923646 4.015065 4.096302
48000000	3 3 3	3.923646 4.015065 4.096302 4.185997
	3	3.923646 4.015065 4.096302
48000000 49000000	3 3 3 3	3.923646 4.015065 4.096302 4.185997 4.271439
48000000 49000000 50000000	3 3 3 3 3	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497
48000000 49000000 50000000 1000000	3 3 3 3 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282
48000000 49000000 50000000 1000000 2000000	3 3 3 3 3 4 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282 0.160887
48000000 49000000 50000000 1000000	3 3 3 3 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.35749 0.080282 0.160887 0.240874
48000000 49000000 50000000 1000000 2000000	3 3 3 3 3 4 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282 0.160887
48000000 49000000 50000000 1000000 2000000 4000000	3 3 3 3 3 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282 0.160887 0.240874 0.321080
48000000 49000000 500000000 1000000 2000000 4000000 5000000	3 3 3 3 3 4 4 4 4 4	3.923646 4.015065 4.096306 4.185997 4.271439 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407
48000000 49000000 50000000 1000000 2000000 3000000 4000000 5000000 6000000	3 3 3 3 3 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407 0.481488
48000000 49000000 500000000 1000000 2000000 4000000 5000000	3 3 3 3 3 4 4 4 4 4	3.923646 4.015065 4.096306 4.185997 4.271439 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407
48000000 49000000 50000000 1000000 2000000 3000000 4000000 5000000 6000000	3 3 3 3 3 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282 0.160887 0.321080 0.401407 0.481488 0.561598
4800000 50000000 50000000 1000000 2000000 3000000 4000000 5000000 6000000 7000000 8000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407 0.481488 0.561598
48000000 49000000 500000000 1000000 2000000 3000000 5000000 6000000 7000000 8000000 9000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407 0.481488 0.561598 0.641605 0.721687
48000000 490000000 500000000 1000000 2000000 4000000 5000000 6000000 7000000 8000000 9000000 100000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271438 0.080282 0.160887 0.24087 0.321080 0.401407 0.481488 0.561598 0.641605 0.721687
48000000 49000000 500000000 1000000 2000000 3000000 5000000 6000000 7000000 8000000 9000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271439 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407 0.481488 0.561598 0.641605 0.721687
48000000 490000000 500000000 1000000 2000000 4000000 5000000 6000000 7000000 8000000 9000000 100000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271438 0.080282 0.160887 0.24087 0.321080 0.401407 0.481488 0.561598 0.641605 0.721687
48000000 49000000 50000000 1000000 2000000 4000000 5000000 6000000 7000000 8000000 9000000 110000000 120000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015063 4.096302 4.185997 4.271433 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407 0.481488 0.661598 0.641605 0.721687 0.801893 0.8082024
48000000 49000000 50000000 1000000 2000000 3000000 4000000 6000000 7000000 8000000 110000000 110000000 130000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015063 4.096302 4.185997 4.271433 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407 0.481488 0.561598 0.641603 0.721687 0.801893 0.80282 0.962200 1.042532
48000000 49000000 50000000 1000000 2000000 3000000 4000000 6000000 7000000 9000000 10000000 11000000 12000000 13000000 14000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271438 4.357497 0.080282 0.160887 0.321080 0.401407 0.481488 0.561598 0.641605 0.82020 0.882020 1.042532 1.114908
48000000 49000000 50000000 1000000 2000000 400000 5000000 6000000 7000000 11000000 11000000 12000000 13000000 14000000 15000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015063 4.096302 4.185997 4.271433 4.357497 0.080282 0.160887 0.240874 0.321080 0.401407 0.481488 0.561598 0.641603 0.721687 0.801893 0.80282 0.962200 1.042532
48000000 49000000 50000000 1000000 2000000 400000 5000000 6000000 7000000 11000000 11000000 12000000 13000000 14000000 15000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015063 4.096302 4.185997 0.080282 0.160887 0.240874 0.321080 0.401407 0.481488 0.661598 0.61598 0.721687 0.801893 0.882024 0.962200 1.042532 1.114908
48000000 49000000 50000000 1000000 2000000 3000000 4000000 6000000 7000000 9000000 10000000 11000000 12000000 13000000 14000000 15000000 15000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271438 4.357497 0.240874 0.321080 0.401407 0.481488 0.561598 0.641608 0.721687 0.882024 0.962200 1.042532 1.114908 1.202914
48000000 49000000 50000000 1000000 2000000 3000000 4000000 5000000 6000000 7000000 10000000 11000000 12000000 13000000 14000000 15000000 15000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015063 4.096302 4.185997 6.080282 0.160887 0.240874 0.321080 0.401407 0.481488 0.801893 0.801893 0.801893 0.1042532 1.114909 1.202914 1.282963
48000000 49000000 50000000 1000000 2000000 3000000 4000000 6000000 7000000 11000000 11000000 11000000 13000000 14000000 15000000 15000000 16000000 15000000 16000000 18000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271438 4.357497 0.080282 0.160887 0.240874 0.401407 0.481488 0.561598 0.82024 0.962200 0.822024 1.114908 1.202914 1.282965 1.3631906
48000000 49000000 50000000 1000000 2000000 3000000 4000000 5000000 6000000 7000000 11000000 11000000 12000000 13000000 14000000 15000000 17000000 17000000 17000000 17000000 18000000 18000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015063 4.015063 4.185997 4.271438 4.357497 0.080282 0.160887 0.321080 0.401407 0.641605 0.721687 0.882024 0.962200 1.042532 1.114909 1.202914 1.282965 1.363190 1.433504
48000000 49000000 50000000 1000000 2000000 3000000 4000000 5000000 6000000 7000000 11000000 11000000 12000000 13000000 14000000 15000000 17000000 17000000 17000000 17000000 18000000 18000000	3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.923646 4.015065 4.096302 4.185997 4.271438 4.357497 0.080282 0.160887 0.240874 0.401407 0.481488 0.561598 0.82024 0.962200 0.822024 1.114908 1.202914 1.282965 1.3631906
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33000000 34000000 35000000 36000000 37000000 38000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077 \\ 1.862839 \\ 1.935632 \\ 2.004216 \\ 2.061488 \\ 2.127456 \\ 2.194016 \\ 2.263402 \\ 2.329409 \\ 2.393294 \\ 2.459657 \\ 2.528695 \end{array}$
3300000 3400000 3500000 3600000 3700000 38000000 39000000	888888888888888888888888888888888888888	$\begin{array}{c} 1.795077 \\ 1.862839 \\ 1.935632 \\ 2.004216 \\ 2.061488 \\ 2.127456 \\ 2.194016 \\ 2.263402 \\ 2.329409 \\ 2.329409 \\ 2.329409 \\ 2.528695 \\ 2.522301 \end{array}$
33000000 34000000 35000000 36000000 37000000 38000000 39000000 40000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077 \\ 1.862839 \\ 1.935632 \\ 2.004216 \\ 2.061488 \\ 2.127456 \\ 2.194016 \\ 2.263402 \\ 2.39329409 \\ 2.459657 \\ 2.528695 \\ 2.592301 \\ 2.658513 \end{array}$
3300000 34000000 35000000 36000000 37000000 38000000 40000000 41000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.862839\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.194016\\ 2.263402\\ 2.39329409\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.528695\\ 2.5285573\\ 2.725757\\ 2.725573\\ 2.725757\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.725577\\ 2.72577\\ 2.7$
33000000 34000000 35000000 36000000 37000000 38000000 40000000 41000000 42000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.862839\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.194016\\ 2.263402\\ 2.329409\\ 2.393294\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.528695\\ 2.528692\\$
33000000 34000000 35000000 36000000 37000000 38000000 40000000 41000000 42000000 43000000	888888888888888888888888888888888888888	$\begin{array}{c} 1.795077\\ 1.862833\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.194016\\ 2.329409\\ 2.329409\\ 2.399409\\ 2.528695\\ 2.528696\\ 2.8576634\\ 2.857664\\$
33000000 34000000 35000000 37000000 38000000 38000000 40000000 41000000 42000000 43000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.862839\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.194016\\ 2.2634002\\ 2.329409\\ 2.393294\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.52857634\\ 2.8257634\\ 2.924734\\ 3.93294\\ 3.9$
33000000 34000000 35000000 36000000 38000000 38000000 40000000 41000000 42000000 43000000 44000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.862836\\ 2.0014216\\ 2.061488\\ 2.127456\\ 2.194016\\ 2.263402\\ 2.39329409\\ 2.459657\\ 2.528695\\ 2.592301\\ 2.658513\\ 2.725573\\ 2.808212\\ 2.808212\\ 2.8957634\\ 2.991255\\ 2.99125\\ $
33000000 334000000 35000000 36000000 37000000 38000000 40000000 41000000 42000000 44000000 45000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795073\\ 1.862833\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.194016\\ 2.263402\\ 2.329409\\ 2.459657\\ 2.52869\\ 2.52892301\\ 2.658513\\ 2.924734\\ 2.924734\\ 2.924734\\ 2.9924734\\ 3.058035\\ 3.05803$
33000000 34000000 35000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 45000000 44000000	888888888888888888888888888888888888888	$\begin{array}{c} 1.795077\\ 1.862839\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.127456\\ 2.263402\\ 2.329409\\ 2.459657\\ 2.528695\\ 2.592301\\ 2.658513\\ 2.725573\\ 2.808212\\ 2.857634\\ 2.991255\\ 3.058035\\ 3.123151\\ 3.123151\\ \end{array}$
33000000 34000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 445000000 45000000 47000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.862838\\ 1.935632\\ 2.004216\\ 2.061428\\ 2.127456\\ 2.263402\\ 2.393329409\\ 2.459657\\ 2.528692\\ 2.528692\\ 2.528692\\ 2.528692\\ 3.931294\\ 3.1227483\\ 3.123151\\ 3.192748\\ 3.192$
33000000 34000000 35000000 35000000 37000000 38000000 40000000 41000000 42000000 44000000 45000000 47000000 47000000 48000000	888888888888888888888888888888888888888	$\begin{array}{c} 1.795073\\ 1.862833\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.194016\\ 2.263402\\ 2.329409\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.5255732\\ 2.808212\\ 2.857634\\ 2.924734\\ 3.058035\\ 3.123151\\ 3.192748\\ 3.255834\\ 3.2558834\\ 3.258844\\ 3.25884$
33000000 34000000 35000000 35000000 36000000 38000000 4000000 41000000 42000000 44000000 44000000 44000000 45000000 47000000 48000000 49000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.86283\\ 1.935632\\ 2.0061488\\ 2.1027456\\ 2.194016\\ 2.263402\\ 2.329409\\ 2.329403\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.528695\\ 2.528695\\ 3.05808212\\ 2.857632\\ 2.921253\\ 3.058035\\ 3.123151\\ 3.192748\\ 3.255834\\ 3.255834\\ 3.3215833\\ 3.321583\\ 3.321584\\ 3.$
33000000 34000000 35000000 37000000 38000000 38000000 40000000 41000000 42000000 44000000 45000000 47000000 48000000 49000000	8888888888888888888888888888	$\begin{array}{c} 1.795073\\ 1.862833\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.263402\\ 2.329409\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.528695\\ 3.924734\\ 2.924734\\ 2.924734\\ 3.058035\\ 3.123151\\ 3.058035\\ 3.123151\\ 3.255834\\ 3.255834\\ 3.21583\\ 0.073066\\ $
33000000 34000000 35000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 45000000 44000000 44000000 45000000 45000000 45000000 450000000 400000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.86283\\ 1.935632\\ 2.0061488\\ 2.1027456\\ 2.194016\\ 2.263402\\ 2.393294\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.528695\\ 2.528695\\ 2.528695\\ 3.058035\\ 2.52553\\ 3.0558035\\ 3.123151\\ 3.192748\\ 3.32155834\\ 0.073066\\ 0.146790\\ 0.1467$
33000000 34000000 35000000 36000000 38000000 38000000 40000000 41000000 42000000 43000000 44000000 45000000 46000000 47000000 48000000 49000000 10000000 20000000	88888888888888888888888889999	$\begin{array}{c} 1.795077\\ 1.862838\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.263402\\ 2.323408\\ 2.459657\\ 2.528692\\ 2.52867\\ 2.52867\\ 2.52867\\ 3.0580323\\ 3.123151\\ 3.192748\\ 3.255838\\ 0.073066\\ 0.146790\\ 0.219159\\ \end{array}$
33000000 34000000 35000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 45000000 47000000 48000000 48000000 490000000 500000000 20000000	88888888888888888888888889999	$\begin{array}{c} 1.795077\\ 1.86283\\ 1.935632\\ 2.0061488\\ 2.1027456\\ 2.194016\\ 2.263402\\ 2.393294\\ 2.459657\\ 2.528695\\ 2.592301\\ 2.658513\\ 2.725573\\ 2.658513\\ 2.725573\\ 3.058035\\ 3.0258035\\ 3.0258035\\ 3.0258035\\ 3.0258035\\ 0.073066\\ 0.219158\\ 0.292158\\ 0.29$
33000000 34000000 35000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 44000000 44000000 45000000 46000000 47000000 48000000 1000000 20000000 3000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.862838\\ 1.935632\\ 2.0061488\\ 2.1027456\\ 2.263402\\ 2.329409\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.528695\\ 2.528695\\ 3.05808212\\ 2.857634\\ 2.991253\\ 3.058035\\ 3.122745\\ 3.058035\\ 3.123151\\ 3.192748\\ 3.255834\\ 3.255834\\ 3.255834\\ 3.073066\\ 0.0146790\\ 0.219159\\ 0.292169\\ 0.377337\\ 0.377337\\ 0.377337\\ 0.377337\\ 0.377337\\ 0.377337\\ 0.377337\\ 0.377337\\ 0.3922169\\ 0.377337\\ 0.3922169\\ 0.377337\\ 0.3922169\\ 0.377337\\ 0.3922169\\ 0.3922169\\ 0.377337\\ 0.3922169\\ 0.3922169\\ 0.377337\\ 0.3922169\\ 0.3922169\\ 0.3923$
33000000 34000000 35000000 35000000 37000000 38000000 40000000 41000000 42000000 44000000 45000000 47000000 48000000 48000000 10000000 10000000 20000000 30000000 40000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795073\\ 1.862833\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.263402\\ 2.329409\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.528695\\ 3.0588212\\ 2.528695\\ 3.0588212\\ 3.058835\\ 3.123151\\ 3.058035\\ 3.123151\\ 3.058035\\ 3.123151\\ 3.073066\\ 0.146790\\ 0.292169\\ 0.377337\\ 0.4377818\\ 0.4377818\\ 0.437$
33000000 34000000 35000000 35000000 36000000 38000000 40000000 41000000 42000000 44000000 45000000 44000000 44000000 45000000 45000000 48000000 50000000 50000000 50000000 5000000	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	$\begin{array}{c} 1.795077\\ 1.86283\\ 1.935632\\ 2.0061488\\ 2.1027456\\ 2.263402\\ 2.393294\\ 2.459657\\ 2.528695\\ 2.528695\\ 2.528695\\ 2.528695\\ 3.02558301\\ 2.725573\\ 2.808212\\ 2.857634\\ 2.991255\\ 3.0255834\\ 3.0255834\\ 3.0255834\\ 3.0273060\\ 0.219159\\ 0.377307\\ 0.437818\\ 0.077066\\ 0.377337\\ 0.437818\\ 0.0510766\\ 0.510766$
33000000 34000000 35000000 37000000 38000000 38000000 40000000 41000000 42000000 44000000 45000000 47000000 49000000 49000000 1000000 20000000 30000000 6000000 6000000	88888888888888888888888889999999999	$\begin{array}{c} 1.795077\\ 1.862839\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.263402\\ 2.323409\\ 2.459657\\ 2.52867\\ 2.52867\\ 2.52867\\ 2.52867\\ 2.52867\\ 3.123151\\ 3.058035\\ 3.123151\\ 3.321583\\ 0.073066\\ 0.146790\\ 0.292169\\ 0.37733\\ 0.437818\\ 0.510766\\ 0.583106\\ 0.583$
33000000 34000000 35000000 35000000 35000000 38000000 38000000 41000000 42000000 44000000 44000000 44000000 45000000 47000000 48000000 49000000 20000000 20000000 50000000 50000000 50000000 60000000 50000000 500000000	8888888888888888888888888999999999999	$\begin{array}{c} 1.795077\\ 1.86283\\ 1.935632\\ 2.0061488\\ 2.1027456\\ 2.263402\\ 2.393294\\ 2.459657\\ 2.528692301\\ 2.752573\\ 2.528692301\\ 2.252867\\ 3.058033\\ 2.725573\\ 3.058035\\ 3.123151\\ 3.192748\\ 3.321583\\ 3.255834\\ 3.321583\\ 3.423151\\ 3.192748\\ 3.321583\\ 3.423157\\ 3.192748\\ 3.3215833\\ 0.73066\\ 0.146790\\ 0.219159\\ 0.377337\\ 0.437818\\ 0.510766\\ 0.585106\\ 0.585106\\ 0.685595\\ 0.68595\\ 0.685595\\ 0.6$
33000000 34000000 35000000 37000000 38000000 38000000 40000000 41000000 42000000 44000000 45000000 47000000 49000000 49000000 1000000 20000000 30000000 6000000 6000000	88888888888888888888888889999999999	$\begin{array}{c} 1.795077\\ 1.862839\\ 1.935632\\ 2.004216\\ 2.061488\\ 2.127456\\ 2.263402\\ 2.323409\\ 2.459657\\ 2.52867\\ 2.52867\\ 2.52867\\ 2.52867\\ 2.52867\\ 3.123151\\ 3.058035\\ 3.123151\\ 3.321583\\ 0.073066\\ 0.146790\\ 0.292169\\ 0.37733\\ 0.437818\\ 0.510766\\ 0.583106\\ 0.583$

12000000	9	0.873753
13000000	9	0.946885
14000000	9	1.020538
15000000	9	1.092518
16000000	9	1.164682
17000000	9	1.237685
18000000	9	1.310048
19000000	9	1.383032
20000000	9	1.455840
21000000	9	1.528240
22000000	9	1.601206
23000000	9	1.673460
24000000	9	1.746921
25000000	9	1.818736
26000000	9	1.891265
27000000	9	1.963999
28000000		2.044094
28000000	9	
29000000	9	2.109413
30000000	9	2.182068
31000000	9	2.254665
32000000	9	2.327105
33000000	9	2.399827
34000000	9	2.472719
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36000000	9	2.617538
37000000	9	2.690635
38000000	9	2.762723
39000000	9	2.835641
40000000	9	2.908085
		2.981275
41000000	9	
42000000	9	3.056644
43000000	9	3.126539
44000000	9	3.198630
45000000	9	3.270586
46000000	9	3.343170
47000000	9	3.417567
48000000	9	3.489170
49000000	9	3.582072
		3.661504
50000000	9	
1000000	10	0.067780
2000000	10	0.136390
3000000	10	0.203599
4000000	10	0.271193
5000000	10	0.338988
6000000	10	0.416477
7000000	10	0.474066
	10	0.541673
8000000		
9000000	10	0.609137
10000000	10	0.673957
11000000	10	0.743706
12000000	10	0.811710
13000000	10	0.879282
14000000	10	0.941909
15000000	10	1.019907
16000000	10	1.085902
17000000	10	1.149783
18000000	10	1.216497
19000000	10	
20000000		1.284368
21000000	10	1.284368 1.351295
	10	
22000000		1.351295
22000000	10 10	$\begin{smallmatrix} 1 & . & 3 & 5 & 1 & 2 & 9 & 5 \\ 1 & . & 4 & 3 & 2 & 3 & 4 & 3 \\ 1 & . & 4 & 8 & 6 & 4 & 3 & 7 \end{smallmatrix}$
22000000 23000000	10 10 10	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \end{array}$
22000000 23000000 24000000	10 10 10 10	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \end{array}$
$\begin{array}{c} 22000000\\ 23000000\\ 24000000\\ 25000000 \end{array}$	10 10 10 10 10	$\begin{matrix} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \end{matrix}$
22000000 23000000 24000000 25000000 26000000	10 10 10 10 10 10	$\begin{matrix} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \end{matrix}$
22000000 23000000 2400000 25000000 26000000 27000000	10 10 10 10 10 10 10	$\begin{matrix} 1.351295\\ 1.432343\\ 1.486437\\ 1.552000\\ 1.621226\\ 1.689423\\ 1.755821\\ 1.823583\end{matrix}$
22000000 23000000 24000000 25000000 25000000 27000000 28000000	10 10 10 10 10 10 10 10 10	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 29000000	10 10 10 10 10 10 10	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.968244 \\ 1.968244 \end{array}$
22000000 23000000 24000000 25000000 25000000 27000000 28000000	10 10 10 10 10 10 10 10 10	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 29000000 30000000	10 10 10 10 10 10 10 10 10 10	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.025464 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 29000000 30000000 31000000	10 10 10 10 10 10 10 10 10 10 10 10	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486400 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755883 \\ 1.823583 \\ 1.893124 \\ 1.9682444 \\ 2.0254888 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 310000000 32000000	10 10 10 10 10 10 10 10 10 10 10 10 10	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.968244 \\ 2.025464 \\ 2.0936847 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 31000000 31000000 32000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.025464 \\ 2.093688 \\ 2.159947 \\ 2.239849 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 31000000 32000000 33000000 34000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 1.968244 \\ 2.025464 \\ 2.093688 \\ 2.159947 \\ 2.239849 \\ 2.295102 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 29000000 31000000 31000000 33000000 33000000 34000000 35000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.025464 \\ 2.093688 \\ 2.159947 \\ 2.239849 \\ 2.295102 \\ 2.362590 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 31000000 31000000 33000000 34000000 35000000 35000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 1.968244 \\ 2.025464 \\ 2.093688 \\ 2.159947 \\ 2.239849 \\ 2.295102 \\ 2.362590 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 31000000 32000000 33000000 34000000 35000000 36000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.025464 \\ 2.025464 \\ 2.025464 \\ 2.0339849 \\ 2.295102 \\ 2.362590 \\ 2.429873 \\ 2.497677 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 31000000 31000000 33000000 34000000 35000000 35000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 1.968244 \\ 2.025464 \\ 2.093688 \\ 2.159947 \\ 2.239849 \\ 2.295102 \\ 2.362590 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 31000000 32000000 33000000 34000000 35000000 36000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295\\ 1.432343\\ 1.486437\\ 1.552000\\ 1.621226\\ 1.689423\\ 1.755821\\ 1.823583\\ 1.968244\\ 2.093688\\ 2.159947\\ 2.239849\\ 2.295102\\ 2.362590\\ 2.429873\\ 2.497677\\ 2.565077\end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 31000000 32000000 34000000 35000000 36000000 37000000 38000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.0254648 \\ 2.159947 \\ 2.239849 \\ 2.295102 \\ 2.362590 \\ 2.429873 \\ 2.497677 \\ 2.565077 \\ 2.636836 \end{array}$
22000000 23000000 24000000 24000000 25000000 27000000 28000000 31000000 31000000 33000000 34000000 35000000 35000000 37000000 38000000 39000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.025464 \\ 2.025464 \\ 2.025464 \\ 2.025464 \\ 2.295102 \\ 2.362590 \\ 2.429873 \\ 2.498737 \\ 2.636836 \\ 2.699613 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 31000000 31000000 34000000 35000000 35000000 37000000 37000000 37000000 37000000 37000000 34000000 34000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.7558211 \\ 1.823583 \\ 1.893124 \\ 2.025464 \\ 2.093688 \\ 2.159947 \\ 2.295102 \\ 2.362597 \\ 2.429873 \\ 2.499873 \\ 2.499677 \\ 2.636836 \\ 2.699613 \\ 2.774470 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 31000000 33000000 34000000 35000000 37000000 37000000 38000000 38000000 39000000 40000000 41000000 41000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.093688 \\ 2.159947 \\ 2.239849 \\ 2.295102 \\ 2.362590 \\ 2.429873 \\ 2.497677 \\ 2.5650777 \\ 2.636836 \\ 2.699613 \\ 2.774470 \\ 2.836585 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 31000000 32000000 33000000 34000000 35000000 37000000 37000000 37000000 41000000 41000000 41000000 42000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295\\ 1.432343\\ 1.486437\\ 1.552000\\ 1.621226\\ 1.689423\\ 1.755821\\ 1.823583\\ 1.893124\\ 2.025464\\ 2.093688\\ 2.159947\\ 2.2995102\\ 2.36259947\\ 2.429873\\ 2.499873\\ 2.497677\\ 2.636836\\ 1.59947\\ 2.39849\\ 2.295102\\ 2.362599\\ 2.429873\\ 2.497677\\ 2.636836\\ 1.59947\\ 2.295102\\ 2.362599\\ 2.429873\\ 2.499873\\$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 37000000 40000000 40000000 41000000 43000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.0254648 \\ 2.159947 \\ 2.239849 \\ 2.295102 \\ 2.362590 \\ 2.429873 \\ 2.497677 \\ 2.565077 \\ 2.636836 \\ 2.699613 \\ 2.774470 \\ 2.836585 \\ 2.999546 \\ 2.9969524 \\ 2.9969524 \\ 2.9969524 \\ 2.9699524 \\ 2.9699524 \\ 2.9969524 \\ 2.969952$
22000000 23000000 24000000 25000000 25000000 27000000 28000000 31000000 31000000 33000000 34000000 35000000 35000000 35000000 35000000 37000000 37000000 41000000 41000000 42000000 43000000 44000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295\\ 1.432343\\ 1.486437\\ 1.552000\\ 1.621226\\ 1.689423\\ 1.755821\\ 1.823583\\ 1.968244\\ 2.093688\\ 2.159947\\ 2.239849\\ 2.295102\\ 2.362590\\ 2.429873\\ 2.497677\\ 2.636836\\ 1.565077\\ 2.636836\\ 2.565077\\ 2.636836\\ 2.899546\\ 2.99669524\\ 3.936971\\ 3.03697$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 30000000 31000000 34000000 34000000 35000000 36000000 37000000 39000000 40000000 44000000 44000000 45000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.0254648 \\ 2.159947 \\ 2.239849 \\ 2.295102 \\ 2.362590 \\ 2.429873 \\ 2.497677 \\ 2.565077 \\ 2.636836 \\ 2.699613 \\ 2.774470 \\ 2.836585 \\ 2.999546 \\ 2.9969524 \\ 2.9969524 \\ 2.9969524 \\ 2.9699524 \\ 2.9699524 \\ 2.9969524 \\ 2.969952$
22000000 23000000 24000000 25000000 25000000 27000000 28000000 31000000 31000000 33000000 34000000 35000000 35000000 37000000 38000000 39000000 41000000 41000000 42000000 43000000 44000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295\\ 1.432343\\ 1.486437\\ 1.552000\\ 1.621226\\ 1.689423\\ 1.755821\\ 1.823583\\ 1.968244\\ 2.093688\\ 2.159947\\ 2.239849\\ 2.295102\\ 2.362590\\ 2.429873\\ 2.497677\\ 2.636836\\ 1.565077\\ 2.636836\\ 2.565077\\ 2.636836\\ 2.899546\\ 2.99669524\\ 3.936971\\ 3.03697$
22000000 23000000 24000000 24000000 25000000 26000000 27000000 38000000 31000000 34000000 35000000 35000000 37000000 38000000 39000000 41000000 41000000 41000000 45000000 45000000 44000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.7558211 \\ 1.823583 \\ 1.893124 \\ 2.025464 \\ 2.093688 \\ 2.159947 \\ 2.239849 \\ 2.295102 \\ 2.362590 \\ 2.429873 \\ 2.6565077 \\ 2.565077 \\ 2.565077 \\ 2.565077 \\ 3.636836 \\ 2.699613 \\ 2.774470 \\ 2.836585 \\ 2.899546 \\ 3.036971 \\ 3.103944 \\ 3.191376 \end{array}$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 3000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 41000000 41000000 42000000 44000000 44000000 44000000 45000000 45000000 47000000 47000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295\\ 1.432343\\ 1.486437\\ 1.552000\\ 1.621226\\ 1.689423\\ 1.755821\\ 1.823583\\ 1.893124\\ 2.025464\\ 2.093688\\ 2.159947\\ 2.295102\\ 2.3625947\\ 2.429873\\ 2.497677\\ 2.636836\\ 2.699613\\ 2.774470\\ 2.836585\\ 2.699613\\ 3.036971\\ 3.103944\\ 3.191376\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\$
22000000 23000000 24000000 25000000 25000000 27000000 28000000 3000000 31000000 34000000 35000000 35000000 36000000 37000000 37000000 40000000 42000000 43000000 44000000 45000000 45000000 47000000 48000000 48000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295 \\ 1.432343 \\ 1.486437 \\ 1.552000 \\ 1.621226 \\ 1.689423 \\ 1.755821 \\ 1.823583 \\ 1.893124 \\ 2.025464 \\ 2.09368244 \\ 2.025464 \\ 2.295102 \\ 2.36259102 \\ 2.36259102 \\ 2.362592 \\ 2.429873 \\ 2.497677 \\ 2.565077 \\ 2.636836 \\ 2.699613 \\ 2.774470 \\ 2.836585 \\ 2.899546 \\ 2.969524 \\ 3.036971 \\ 3.103941 \\ 3.191376 \\ 3.237716 \\ 3.237716 \\ 3.237716 \\ 3.237716 \\ 3.237716 \\ 3.237716 \\ 3.237716 \\ 3.3366663 \\ 3.306063 \\ 3.30606063 \\ 3.3060606060600600000000000000000000000$
22000000 23000000 24000000 25000000 26000000 27000000 28000000 3000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 41000000 41000000 42000000 44000000 44000000 44000000 45000000 45000000 47000000 47000000	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$\begin{array}{c} 1.351295\\ 1.432343\\ 1.486437\\ 1.552000\\ 1.621226\\ 1.689423\\ 1.755821\\ 1.823583\\ 1.893124\\ 2.025464\\ 2.093688\\ 2.159947\\ 2.295102\\ 2.3625947\\ 2.429873\\ 2.497677\\ 2.636836\\ 2.699613\\ 2.774470\\ 2.836585\\ 2.699613\\ 3.036971\\ 3.103944\\ 3.191376\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\ 3.237716\\$

6.4 Static

Array Size — Amount of Cores — Time taken

1000000	1	0.080914
2000000	1	0.157724
3000000	1	0.236725
4000000	1	0.315702
5000000	1	0.394773
6000000	1	0.472902
7000000	1	0.551556
8000000	1	0.630534
9000000	1	0.709008
10000000	1	0.788208
11000000	1	0.867400

12000000	1	0.947243
13000000	1	1.025953
14000000	1	1.104308
15000000	1	1.183911
16000000	1	1.263313
17000000	1	1.342357
18000000	1	1.422051
19000000	1	1.500518
20000000	1	1.578356
21000000	1	1.657893
22000000	1	1.735847
23000000	1	1.815458
24000000	1	1.895681
25000000	1	1.973574
26000000	1	2.052083
27000000	1	2.131019
28000000	1	2.210884
29000000	1	2.289442
30000000	1	2.368570
31000000	1	2.446854
32000000	1	2.525521
33000000	1	2.606644
34000000	1	2.683255
35000000	1	2.762026
		2.702020
36000000	1	2.841479
37000000	1	2.922394
38000000	1	3.000474
39000000	1	3.078202
40000000	1	3.158714
41000000	1	3.236315
42000000	1	3.314069
43000000	1	3.394317
44000000	1	3.471126
		3.554718
45000000	1	
46000000	1	3.628974
47000000	1	3.709532
48000000	1	3.790600
49000000	1	3.867604
50000000	1	3.944752
1000000	2	0.041134
2000000	2	0.082441
3000000	2	0.123529
4000000	2	0.164641
5000000	2	0.205831
6000000	2	0.246592
7000000	2	0.287179
8000000	2	0.328092
9000000	2	0.369018
10000000	2	0.412675
11000000	2	0.451666
12000000	2	0.492971
13000000	2	0.535624
	2	0.576777
14000000		
15000000	2	0.617973
16000000	2	0.659129
17000000	2	0.702391
18000000	2	0.741008
19000000	2	0.786488
20000000	2	0.823072
21000000	2	0.864179
22000000	2	0.906236
	2	
23000000		0.945783
24000000	2	
25000000		0.986662
26000000	2	1.033389
		1.033389
	2	1.033389 1.069865
27000000	2 2	1.033389 1.069865 1.110491
27000000 28000000	2 2 2	1.033389 1.069865 1.110491 1.154781
27000000 28000000 29000000	2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078
27000000 28000000	2 2 2	1.033389 1.069865 1.110491 1.154781
27000000 28000000 29000000	2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078
27000000 28000000 29000000 30000000 31000000	2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489
27000000 28000000 29000000 30000000 31000000 32000000	2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171
27000000 28000000 29000000 30000000 31000000 32000000 33000000	2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920
27000000 28000000 29000000 30000000 31000000 32000000	2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.396761
27000000 28000000 29000000 30000000 31000000 32000000 33000000	2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920
27000000 28000000 29000000 30000000 31000000 32000000 34000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.11049 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.396761 1.437178
27000000 28000000 39000000 31000000 32000000 33000000 34000000 35000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389\\ 1.069865\\ 1.110491\\ 1.154781\\ 1.92078\\ 1.237710\\ 1.275489\\ 1.314171\\ 1.355920\\ 1.396761\\ 1.437178\\ 1.486588 \end{array}$
27000000 28000000 39000000 31000000 32000000 33000000 34000000 35000000 37000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389\\ 1.069865\\ 1.110491\\ 1.154781\\ 1.192078\\ 1.237710\\ 1.275489\\ 1.314171\\ 1.355920\\ 1.396761\\ 1.437178\\ 1.486588\\ 1.526620\\ \end{array}$
2700000 28000000 29000000 31000000 31000000 32000000 34000000 35000000 36000000 37000000 38000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.396761 1.437178 1.486588 1.526620 1.561085
27000000 28000000 39000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.210491 \\ 1.154781 \\ 1.192078 \\ 1.237710 \\ 1.3755920 \\ 1.314171 \\ 1.355920 \\ 1.346588 \\ 1.526620 \\ 1.561085 \\ 1.560930 \\ \end{array}$
27000000 28000000 39000000 31000000 32000000 33000000 34000000 35000000 37000000 38000000 38000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389\\ 1.069865\\ 1.110491\\ 1.154781\\ 1.192078\\ 1.237710\\ 1.275489\\ 1.314171\\ 1.355920\\ 1.396761\\ 1.437178\\ 1.486588\\ 1.526620\\ 1.561085\\ 1.600930\\ 1.642754\\ \end{array}$
27000000 28000000 39000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.210491 \\ 1.154781 \\ 1.192078 \\ 1.237710 \\ 1.3755920 \\ 1.314171 \\ 1.355920 \\ 1.346588 \\ 1.526620 \\ 1.561085 \\ 1.560930 \\ \end{array}$
27000000 28000000 39000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 38000000 39000000 40000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.010491 \\ 1.154781 \\ 1.192078 \\ 1.237710 \\ 1.275489 \\ 1.314171 \\ 1.355920 \\ 1.396761 \\ 1.437178 \\ 1.486588 \\ 1.526620 \\ 1.600930 \\ 1.642754 \\ 1.683836 \end{array}$
27000000 28000000 39000000 31000000 32000000 34000000 35000000 35000000 37000000 38000000 38000000 40000000 41000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.437178 1.486588 1.526620 1.561085 1.600930 1.642754 1.683836
27000000 28000000 39000000 31000000 32000000 34000000 35000000 36000000 37000000 38000000 39000000 41000000 41000000 42000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.396761 1.437178 1.486588 1.526620 1.6642754 1.683836 1.723798
27000000 28000000 29000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 40000000 42000000 42000000 440000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.3437178 1.486588 1.526620 1.561085 1.600930 1.642754 1.683836 1.723798 1.766671 1.809173
27000000 28000000 39000000 31000000 31000000 32000000 34000000 35000000 36000000 37000000 37000000 41000000 41000000 42000000 43000000 44000000 445000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033388 \\ 1.069865 \\ 1.10491 \\ 1.154781 \\ 1.192078 \\ 1.237710 \\ 1.2375180 \\ 1.314171 \\ 1.355920 \\ 1.346588 \\ 1.346588 \\ 1.526620 \\ 1.561085 \\ 1.60930 \\ 1.642754 \\ 1.683836 \\ 1.72378 \\ 1.723782 \\ 1.723782 \\ 1.852361 \\ 1.852361 \\ 1.852361 \\ 1.852361 \end{array}$
27000000 28000000 29000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 40000000 42000000 42000000 440000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.346761 1.437178 1.526620 1.561085 1.600930 1.642754 1.683836 1.723798 1.723798 1.723798
27000000 28000000 39000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 40000000 41000000 42000000 44000000 44000000 45000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.346761 1.437178 1.526620 1.561085 1.600930 1.642754 1.683836 1.723798 1.723798 1.723798
27000000 28000000 39000000 31000000 32000000 34000000 35000000 37000000 37000000 38000000 40000000 410000000 42000000 43000000 45000000 45000000 47000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.110491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.437178 1.486588 1.526620 1.561085 1.600930 1.642754 1.683836 1.723798 1.723798 1.766671 1.899173 1.898513
27000000 28000000 31000000 31000000 32000000 33000000 34000000 35000000 36000000 37000000 41000000 41000000 42000000 44000000 44000000 44000000 44000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.110491 \\ 1.154781 \\ 1.275489 \\ 1.314171 \\ 1.355920 \\ 1.3437170 \\ 1.396761 \\ 1.437178 \\ 1.526620 \\ 1.437178 \\ 1.526620 \\ 1.642754 \\ 1.561085 \\ 1.561085 \\ 1.562372 \\ 1.561085 \\ 1.5$
27000000 28000000 29000000 31000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 40000000 41000000 42000000 43000000 44000000 45000000 45000000 47000000 48000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.10491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.3437178 1.486588 1.526620 1.561085 1.600930 1.642754 1.723798 1.723798 1.766671 1.89851 1.89851 1.89851 1.89851 1.89851 1.933777
27000000 28000000 29000000 31000000 31000000 32000000 34000000 35000000 37000000 37000000 40000000 41000000 42000000 44000000 44000000 45000000 45000000 46000000 47000000 48000000 49000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.110491 \\ 1.154781 \\ 1.275489 \\ 1.237710 \\ 1.237710 \\ 1.237618 \\ 1.314171 \\ 1.355920 \\ 1.396761 \\ 1.437178 \\ 1.561682 \\ 1.66271 \\ 1.486588 \\ 1.526620 \\ 1.486588 \\ 1.526620 \\ 1.486588 \\ 1.526620 \\ 1.852361 \\ 1.852361 \\ 1.852361 \\ 1.893571 \\ 1.852361 \\ 1.893571 \\ 1.892361 \\ 1.893571 \\ 1.892361 \\ 1.893571 \\ 1.893$
27000000 28000000 29000000 31000000 31000000 32000000 34000000 35000000 35000000 37000000 37000000 40000000 41000000 42000000 43000000 44000000 45000000 45000000 47000000 48000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.10491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.3437178 1.486588 1.526620 1.561085 1.600930 1.642754 1.723798 1.723798 1.766671 1.89851 1.89851 1.89851 1.89851 1.89851 1.933777
27000000 28000000 29000000 310000000 32000000 34000000 35000000 35000000 37000000 37000000 40000000 41000000 44000000 44000000 45000000 47000000 47000000 48000000 49000000 49000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.10491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.396761 1.437178 1.48658 1.526620 1.561085 1.600930 1.642754 1.68383 1.723798 1.766671 1.898513 1.898513 1.99200000000000000000000000000000000000
27000000 28000000 31000000 31000000 31000000 32000000 34000000 35000000 36000000 37000000 38000000 41000000 41000000 42000000 44000000 44000000 44000000 45000000 46000000 47000000 48000000 48000000 50000000 50000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033388\\ 1.069865\\ 1.10491\\ 1.154781\\ 1.192078\\ 1.237710\\ 1.275489\\ 1.314171\\ 1.355920\\ 1.344778\\ 1.486588\\ 1.526620\\ 1.561085\\ 1.600930\\ 1.642754\\ 1.683836\\ 1.723798\\ 1.766671\\ 1.898513\\ 1.723798\\ 1.766671\\ 1.893777\\ 1.972238\\ 2.018152\\ 0.029000\\ 0.057807\\ 0.029000\\ 0.057807\\ 0.029000\\ 0.057807\\ 0.0000000000000000000000000000000000$
27000000 28000000 29000000 31000000 31000000 32000000 33000000 34000000 35000000 37000000 38000000 41000000 41000000 42000000 44000000 44000000 45000000 46000000 47000000 47000000 47000000 48000000 49000000 500000000 10000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.110491 \\ 1.154781 \\ 1.275489 \\ 1.314171 \\ 1.355926 \\ 1.344717 \\ 1.355926 \\ 1.396761 \\ 1.437178 \\ 1.526620 \\ 1.486588 \\ 1.526620 \\ 1.487178 \\ 1.588588 \\ 1.5888 \\ 1.58888 \\ 1.58$
27000000 28000000 29000000 31000000 31000000 32000000 34000000 35000000 35000000 37000000 39000000 40000000 41000000 42000000 44000000 45000000 47000000 47000000 47000000 47000000 47000000 48000000 49000000 50000000 50000000 2000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033388 1.069865 1.10491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.3486588 1.526620 1.561085 1.600930 1.642754 1.723798 1.7
27000000 28000000 30000000 31000000 32000000 33000000 34000000 35000000 36000000 37000000 41000000 41000000 44000000 44000000 45000000 45000000 45000000 45000000 45000000 45000000 45000000 45000000 450000000 50000000 50000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.110491 \\ 1.154781 \\ 1.275489 \\ 1.237710 \\ 1.257489 \\ 1.314171 \\ 1.355920 \\ 1.3447178 \\ 1.355920 \\ 1.437178 \\ 1.526620 \\ 1.437178 \\ 1.526620 \\ 1.437178 \\ 1.526620 \\ 1.437178 \\ 1.56108333 \\ 1.52361 \\ 1.56108333 \\ 1.523777 \\ 1.809173 \\ 1.852361 \\ 1.8923777 \\ 1.809173 \\ 2.0157075 \\ 0.029000 \\ 0.057807 \\ 0.029000 \\ 0.0114327 \\ 0.0114527 \\$
27000000 28000000 29000000 310000000 31000000 32000000 34000000 35000000 37000000 38000000 39000000 41000000 44000000 44000000 44000000 47000000 47000000 48000000 49000000 49000000 40000000 400000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033388 1.069865 1.10491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.347778 1.48658 1.526620 1.526
27000000 28000000 29000000 310000000 31000000 32000000 34000000 35000000 37000000 38000000 39000000 41000000 44000000 44000000 44000000 47000000 47000000 48000000 49000000 49000000 40000000 400000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033388 1.069865 1.10491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.347778 1.48658 1.526620 1.526
27000000 28000000 29000000 31000000 31000000 32000000 34000000 35000000 36000000 37000000 38000000 41000000 42000000 44000000 44000000 45000000 45000000 45000000 45000000 40000000 50000000 50000000 50000000 5000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.110491 \\ 1.154781 \\ 1.275489 \\ 1.314171 \\ 1.355920 \\ 1.396761 \\ 1.437178 \\ 1.561682 \\ 1.64275489 \\ 1.766671 \\ 1.852361 \\ 1.6627379 \\ 1.852361 \\ 1.852361 \\ 1.8933777 \\ 1.809173 \\ 1.898513 \\ 1.933777 \\ 1.809173 \\ 1.898513 \\ 1.14527 \\ 1.898513 \\ 1.933777 \\ 1.809173 \\ 1.898513 \\ 1.933777 \\ 1.87238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.93377 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.933777 \\ 1.97238 \\ 1.9737 \\ 1.9738$
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27000000 28000000 29000000 31000000 31000000 32000000 34000000 35000000 36000000 37000000 40000000 41000000 42000000 44000000 44000000 45000000 46000000 47000000 50000000 50000000 50000000 60000000 70000000 80000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.10491 \\ 1.154781 \\ 1.192078 \\ 1.275489 \\ 1.314171 \\ 1.355920 \\ 1.347176 \\ 1.375782 \\ 1.347178 \\ 1.36761 \\ 1.437178 \\ 1.526620 \\ 1.561085 \\ 1.526620 \\ 1.561085 \\ 1.526620 \\ 1.561085 \\ 1.526620 \\ 1.561085 \\ 1.526620 \\ 1.561085 \\ 1.526620 \\ 1.561085 \\ 1.526620 \\ 1.561085 \\ 1.526620 \\ 1.561085 \\ 1.526620 \\ 1.561085 \\ 1.566671 \\ 1.56671 \\ 1.566671 \\ 1.566671 \\ 1.566671 \\ 1.566671 \\ 1.566671 \\ 1.56671 \\ 1.56671 \\ 1.566671 \\ 1.566671 \\ 1.566671 \\ 1.566671 \\ 1.566671 \\ 1.56671 \\ $
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27000000 28000000 29000000 31000000 31000000 32000000 34000000 34000000 36000000 37000000 41000000 44000000 44000000 44000000 44000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.033389 1.069865 1.10491 1.154781 1.192078 1.237710 1.275489 1.314171 1.355920 1.347778 1.48658 1.526620 1.437178 1.526620 1.561085 1.600930 1.642754 1.723798 1.766671 1.8995173 1.899173 1.8952361 1.933777 1.972238 2.018154 2.0
27000000 28000000 28000000 30000000 31000000 32000000 34000000 35000000 36000000 37000000 41000000 41000000 44000000 44000000 45000000 45000000 45000000 45000000 45000000 45000000 6000000 7000000 6000000 7000000 8000000 8000000 10000000 110000000 110000000 11000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.110491 \\ 1.154781 \\ 1.275482 \\ 1.237710 \\ 1.237710 \\ 1.237710 \\ 1.237710 \\ 1.2376710 \\ 1.2526620 \\ 1.34171 \\ 1.355920 \\ 1.396761 \\ 1.437178 \\ 1.561082 \\ 1.561083 \\ 1.526620 \\ 1.486588 \\ 1.526620 \\ 1.486588 \\ 1.526620 \\ 1.48717 \\ 1.89851 \\ 1.766671 \\ 1.898513 \\ 1.723798 \\ 2.018154 \\ 2.057075 \\ 0.029000 \\ 0.114327 \\ 0.029000 \\ 0.114527 \\ 0.029000 \\ 0.114527 \\ 0.029000 \\ 0.114527 \\ 0.029000 \\ 0.117256 \\ 0.0256224 \\ 0.0313900 \\ 0.3$
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27000000 28000000 29000000 30000000 310000000 32000000 33000000 34000000 35000000 37000000 34000000 41000000 41000000 44000000 44000000 45000000 45000000 45000000 45000000 45000000 45000000 45000000 45000000 10000000 10000000 10000000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 1.033389 \\ 1.069865 \\ 1.110491 \\ 1.154781 \\ 1.275489 \\ 1.237716 \\ 1.237718 \\ 1.237718 \\ 1.314171 \\ 1.355926 \\ 1.3447171 \\ 1.355926 \\ 1.660936 \\ 1.486588 \\ 1.526626 \\ 1.600936 \\ 1.561085 \\ 1.5$
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2000000		$0.941469 \\ 0.017097$
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	7 7	$0.941469 \\ 0.017097$
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5000000 6000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \end{array}$
5000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \end{array}$
5000000 6000000 7000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \end{array}$
5000000 6000000 7000000 8000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \\ 0.132161 \end{array}$
5000000 6000000 7000000 8000000 9000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \\ 0.132161 \\ 0.148625 \end{array}$
5000000 6000000 7000000 8000000 9000000 10000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \\ 0.132161 \\ 0.148625 \\ 0.165357 \end{array}$
5000000 6000000 7000000 8000000 9000000 11000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \\ 0.132161 \\ 0.148625 \\ 0.165357 \\ 0.181602 \end{array}$
5000000 6000000 7000000 8000000 9000000 10000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \\ 0.132161 \\ 0.148625 \\ 0.165357 \end{array}$
5000000 6000000 7000000 8000000 9000000 11000000 12000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \\ 0.132161 \\ 0.148625 \\ 0.165357 \\ 0.181602 \\ 0.198068 \end{array}$
500000 6000000 7000000 800000 9000000 11000000 12000000 13000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \\ 0.132161 \\ 0.148625 \\ 0.165357 \\ 0.181602 \\ 0.198068 \\ 0.214580 \\ 0.214580 \end{array}$
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500000 6000000 7000000 8000000 9000000 10000000 12000000 13000000 1400000 15000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.09364 \\ 0.115949 \\ 0.132161 \\ 0.148625 \\ 0.165357 \\ 0.181602 \\ 0.124580 \\ 0.214580 \\ 0.231000 \\ 0.247660 \\ 0.247660 \end{array}$
500000 6000000 700000 800000 9000000 1000000 11000000 12000000 13000000 14000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115949 \\ 0.132161 \\ 0.148625 \\ 0.165357 \\ 0.181602 \\ 0.198068 \\ 0.214580 \\ 0.231000 \\ 0.231000 \end{array}$
500000 6000000 700000 800000 9000000 1000000 11000000 12000000 1400000 1500000 16000000	7 7 7 7 7	$\begin{array}{c} 0.941469 \\ 0.017097 \\ 0.033746 \\ 0.050278 \\ 0.066734 \\ 0.083255 \\ 0.099664 \\ 0.115946 \\ 0.132161 \\ 0.148625 \\ 0.198068 \\ 0.214580 \\ 0.231000 \\ 0.247660 \\ 0.247660 \\ 0.263998 \end{array}$
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$\begin{array}{c} 42000000 \\ 43000000 \end{array}$		
	7	0.688963
1000000	7	0.704568
44000000	7	0.72131
45000000	7	0.737589
46000000	7	0.743415
	7 7 7 7 7 7 7	0.793128
47000000	-	
48000000	_	0.775977
49000000	7	0.802629
50000000	7	0.818430
1000000	8	0.015310
2000000	8	0.030162
3000000	8	0.04485
4000000	8	0.059595
5000000	8	0.074347
6000000	8	0.088863
7000000	8	0.103363
8000000	8	0.117833
9000000	8	0.13242
10000000	8	0.147172
11000000	8	0.161763
12000000	8	0.17643
13000000	8	0.191387
14000000	8	0.206052
15000000	8	0.220642
16000000	8	0.235180
17000000	8	0.24973
18000000	8	0.264318
		0.204316
19000000	8	0.278870
20000000	8	0.293453
21000000	8	0.308125
22000000	8	0.322583
23000000	8	0.366018
24000000	8	0.382597
25000000	8	0.398123
26000000	8	0.414456
27000000	8	0.430076
28000000	8	
		0.44613
29000000	8	0.461969
30000000	8	0.438842
31000000	8	0.452906
32000000	8	0.467474
33000000	8	0.482067
34000000	8	0.496572
35000000	8	0.510945
36000000	8	0.525503
37000000	8	0.525502 0.539937
38000000	8	0.55475
39000000	8	0.568924
40000000	8	0.583345
41000000	8	0.597894
42000000	8	0.612500
43000000	8	0.682359
44000000	8	0.698070
45000000	8	0.71384
46000000	8	0.722579
47000000	8	0.684416
48000000	8	0.698750
49000000	8	0.713549
50000000	8	0.727683
1000000	9	$0.727683 \\ 0.022243$
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1000000 2000000 3000000 4000000 5000000 6000000	9 9 9 9	0.727683 0.022243 0.037509 0.052056 0.072683 0.092993 0.108164
1000000 2000000 3000000 4000000 5000000	9 9 9 9 9	0.727683 0.022243 0.037509 0.052056 0.072683 0.092993
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1000000 2000000 3000000 4000000 5000000 6000000 8000000 9000000	9 9 9 9 9 9 9 9	$\begin{array}{c} 0.727683 \\ 0.022243 \\ 0.037509 \\ 0.052056 \\ 0.072683 \\ 0.092993 \\ 0.10816 \\ 0.125869 \\ 0.144019 \\ 0.159130 \end{array}$
1000000 2000000 3000000 400000 5000000 6000000 7000000 8000000 9000000 10000000	9 9 9 9 9 9 9 9 9	$\begin{array}{c} 0.727683\\ 0.022243\\ 0.03750\\ 0.052056\\ 0.072683\\ 0.092993\\ 0.108164\\ 0.125869\\ 0.144013\\ 0.159130\\ 0.175896\end{array}$
1000000 2000000 3000000 4000000 5000000 6000000 7000000 8000000 10000000 110000000	9 9 9 9 9 9 9 9 9 9	$\begin{array}{c} 0.72768;\\ 0.02224;\\ 0.037509;\\ 0.052056;\\ 0.07268;\\ 0.09299;\\ 0.10816;\\ 0.12586;\\ 0.14401;\\ 0.159136;\\ 0.17589;\\ 0.195456.\end{array}$
1000000 2000000 3000000 4000000 5000000 7000000 8000000 9000000 10000000 11000000 12000000	9 9 9 9 9 9 9 9 9 9 9	0.72768; 0.02224; 0.037509; 0.07268; 0.07268; 0.09299; 0.10816; 0.12586; 0.14401; 0.15913; 0.17589; 0.19545; 0.21267;
1000000 2000000 3000000 4000000 5000000 6000000 7000000 8000000 10000000 11000000 12000000 13000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768; 0.02224; 0.03750; 0.05205; 0.07268; 0.09299; 0.10816; 0.12586; 0.14401; 0.15913; 0.17589; 0.19545; 0.21267; 0.23127
1000000 2000000 3000000 4000000 5000000 6000000 7000000 8000000 10000000 11000000 12000000 13000000 14000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768; 0.02224; 0.037509; 0.05205; 0.07268; 0.09299; 0.10816; 0.12586; 0.14401; 0.15913; 0.17589; 0.19545; 0.21267; 0.23127*
1000000 2000000 3000000 4000000 5000000 7000000 8000000 9000000 11000000 12000000 13000000 14000000 15000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768: 0.02224: 0.037509 0.052050 0.07268: 0.09299 0.10816- 0.125869 0.144019 0.159130 0.175890 0.195450 0.21267: 0.23127- 0.23127- 0.246660
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1000000 2000000 3000000 4000000 5000000 6000000 7000000 10000000 11000000 12000000 14000000 15000000 15000000 17000000 18000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768: 0.02224: 0.037509 0.052056 0.07268! 0.09299: 0.108164 0.125860 0.144019 0.159130 0.175890 0.195456 0.21267 0.23127 0.246664 0.26454' 0.280488 0.297838
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1000000 2000000 3000000 4000000 5000000 6000000 7000000 10000000 11000000 12000000 14000000 15000000 17000000 17000000 18000000 19000000 21000000 22000000 22000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768: 0.02244; 0.03750; 0.052505; 0.052505; 0.09268; 0.09299; 0.10816- 0.12586; 0.142586; 0.14401; 0.17589; 0.21267; 0.24666- 0.26454; 0.29836- 0.33516; 0.34646; 0.34646; 0.34646; 0.36894; 0.36787; 0.36787;
1000000 2000000 3000000 4000000 5000000 6000000 7000000 10000000 11000000 12000000 13000000 14000000 15000000 17000000 18000000 18000000 20000000 20000000 220000000 23000000 23000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768: 0.02244: 0.03750: 0.052505: 0.07268: 0.09299: 0.10816. 0.12586: 0.12586: 0.14508: 0.15913: 0.17589: 0.21267: 0.23127: 0.23127: 0.23127: 0.24666. 0.26454' 0.29783: 0.29836: 0.33516' 0.34646: 0.36894' 0.36894' 0.368973: 0.37366: 0
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1000000 2000000 3000000 4000000 5000000 6000000 7000000 8000000 11000000 12000000 14000000 15000000 15000000 17000000 18000000 20000000 21000000 22000000 22000000 24000000 25000000 25000000 27000000 27000000 28000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768: 0.02244; 0.03750; 0.052505; 0.052505; 0.09268; 0.09299; 0.10816- 0.12586; 0.14916; 0.15913; 0.17589; 0.21267; 0.24666- 0.26454; 0.29836- 0.33516; 0.34646; 0.345646; 0.34646; 0.34646; 0.34786; 0.41178; 0.41108; 0.41178; 0.411933; 0.45250; 0.48494;
1000000 2000000 3000000 4000000 5000000 6000000 7000000 10000000 11000000 12000000 13000000 15000000 15000000 16000000 17000000 18000000 20000000 21000000 22000000 23000000 24000000 25000000 27000000 27000000 28000000 28000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768: 0.02242. 0.03750: 0.052505: 0.05265: 0.09269: 0.10816. 0.12586: 0.12586: 0.14401: 0.15913: 0.17589: 0.21267: 0.23127: 0.23127: 0.23127: 0.23646: 0.26454' 0.38048: 0.29783: 0.38516' 0.3466: 0.34108: 0.41108: 0.41108: 0.41108: 0.41175: 0.48240: 0.48494: 0.482494: 0.482494: 0.482494:
1000000 2000000 3000000 4000000 5000000 6000000 7000000 10000000 11000000 12000000 14000000 15000000 15000000 17000000 18000000 19000000 20000000 21000000 22000000 23000000 24000000 25000000 25000000 27000000 28000000 29000000 29000000	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.72768: 0.02244: 0.03750: 0.0525050 0.05268: 0.09299: 0.10816- 0.12586: 0.14401: 0.159130 0.17589: 0.21267: 0.24666 0.26454' 0.29836- 0.33516' 0.36894:
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2000000	10	0.035659
3000000	10	0.052626
4000000	10	0.068621
5000000	10	0.086449
6000000	10	0.105020
7000000	10	0.134073
8000000	10	0.135148
9000000	10	0.151409
10000000	10	0.165400
11000000	10	0.184519
12000000	10	0.198077
13000000	10	0.220321
14000000	10	0.225852
15000000	10	0.252346
16000000	10	0.262221
17000000	10	0.282217
18000000	10	0.294145
19000000	10	0.309511
20000000	10	0.320529
21000000	10	0.343711
22000000	10	0.356127
23000000	10	0.379654
24000000	10	0.398082
25000000	10	0.411067
26000000	10	0.428080
27000000	10	0.442286
28000000	10	0.477383
29000000	10	0.480713
30000000	10	0.495268
31000000	10	0.510340
32000000	10	0.508283
33000000	10	0.537794
34000000	10	0.557842
35000000	10	0.558705
36000000	10	0.587461
37000000	10	0.602027
38000000	10	0.603581
39000000	10	0.635860
40000000	10	0.655595
41000000	10	0.663305
42000000	10	0.660883
		0.670623
43000000	10	0.670623 0.696467
44000000	10	0.696467 0.702193
45000000	10	
46000000	10	0.741874
47000000	10	0.741291
48000000	10	0.792577
49000000	10	0.781222
50000000	10	0.784744

6.5 MPI ScatterV

	1 Process			2 Process's			3 Process's			4 Process's		
#Run	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to
#Kun	taken	synchronize	compute values									
1	0.02640199661	0.01466584206	0.01173615456	0.02151298523	0.01364088058	0.007872104645	0.02384996414	0.0152451992	0.008604764938	0.02123713493	0.01446557045	0.006771564484
2	0.02626109123	0.01450014114	0.01176095009	0.02155303955	0.01366996765	0.007883071899	0.02170109749	0.015843153	0.005857944489	0.02039384842	0.01532292366	0.005070924759
3	0.02635407448	0.01453995705	0.01181411743	0.02151203156	0.01365423203	0.00785779953	0.02369809151	0.0151052475	0.008592844009	0.02253103256	0.01574587822	0.006785154343
4	0.02855014801	0.01672101021	0.0118291378	0.02151703835	0.01364994049	0.007867097855	0.02375483513	0.01504087448	0.008713960648	0.02291512489	0.01606726646	0.006847858429
5	0.02647805214	0.01454591751	0.01193213463	0.02140402794	0.013641119	0.007762908936	0.02152395248	0.01566267014	0.005861282349	0.02296590805	0.01608800888	0.00687789917
6	0.02641510963	0.01458835602	0.01182675362	0.02153897285	0.01371479034	0.00782418251	0.02149200439	0.01563405991	0.005857944489	0.02266788483	0.01590800285	0.006759881973
7	0.02623105049	0.01442909241	0.01180195808	0.02150893211	0.0136449337	0.007863998413	0.02384614944	0.01524376869	0.008602380753	0.02246212959	0.01569890976	0.006763219833
8	0.02645516396	0.01436686516	0.0120882988	0.02147102356	0.01361823082	0.00785279274	0.02389788628	0.01530337334	0.008594512939	0.02063393593	0.01558089256	0.005053043365
9	0.02606487274	0.01430916786	0.01175570488	0.0214869976	0.01366496086	0.007822036743	0.02163696289	0.01575374603	0.005883216858	0.02190208435	0.01691222191	0.004989862442
10	0.02636790276	0.01456212997	0.01180577278	0.02142715454	0.01371479034	0.007712364197	0.0214881897	0.01540803909	0.006080150604	0.0205180645	0.0154440403	0.0050740242
11	0.02642011642	0.01465392113	0.0117661953	0.02151083946	0.01365399361	0.007856845856	0.02144408226	0.01551032066	0.005933761597	0.02252602577	0.01527810097	0.007247924805
12	0.02627491951	0.01442813873	0.01184678078	0.02622485161	0.01844620705	0.007778644562	0.02384018898	0.01521682739	0.008623361588	0.02304506302	0.01604604721	0.006999015808
13	0.02618098259	0.0144598484	0.01172113419	0.02147388458	0.01365184784	0.007822036743	0.02374410629	0.01502013206	0.008723974228	0.02209687233	0.01710891724	0.004987955093
14	0.02677106857	0.01471304893	0.01205801964	0.02153682709	0.01369404793	0.00784277916	0.02166008949	0.01578593254	0.005874156952	0.02344799042	0.01608991623	0.007358074188
15	0.02625489235	0.0144033432	0.01185154915	0.02151203156	0.0136680603	0.007843971252	0.02132105827	0.01543164253	0.005889415741	0.02212190628	0.01713418961	0.004987716675
16	0.02631187439	0.01446986198	0.01184201241	0.02161717415	0.01366972923	0.007947444916	0.02162694931	0.01576399803	0.005862951279	0.02273917198	0.0160009861	0.006738185883
17	0.0262761116	0.01445603371	0.0118200779	0.02133798599	0.01361489296	0.007723093033	0.02154898643	0.01568484306	0.005864143372	0.02126097679	0.01459884644	0.006662130356
18	0.02669501305	0.01461100578	0.01208400726	0.02132487297	0.01358580589	0.007739067078	0.02151107788	0.01562714577	0.005883932114	0.02245402336	0.01534080505	0.007113218307
19	0.02613997459	0.01434707642	0.01179289818	0.02146792412	0.01373577118	0.007732152939	0.02127504349	0.01540803909	0.005867004395	0.02292203903	0.0160586834	0.006863355637
20	0.02614212036	0.01429867744	0.01184344292	0.02133011818	0.01361322403	0.00771689415	0.02126002312	0.01539587975	0.005864143372	0.02285814285	0.01604008675	0.006818056107
21	0.02622008324	0.01443910599	0.01178097725	0.02152013779	0.01365804672	0.007862091064	0.02340292931	0.01541590691	0.0079870224	0.02242612839	0.0152759552	0.007150173187
22	0.026252985	0.01443719864	0.01181578636	0.02144193649	0.01370573044	0.007736206055	0.02375197411	0.01515698433	0.008594989777	0.02304911613	0.01623988152	0.006809234619
23	0.02655291557	0.01464176178	0.01191115379	0.0216190815	0.01373910904	0.007879972458	0.02382588387	0.01525020599	0.008575677872	0.02278804779	0.01599287987	0.006795167923
Min	0.02606487274	0.01429867744	0.01172113419	0.02132487297	0.01358580589	0.007712364197	0.02126002312	0.01502013206	0.005857944489	0.02291703224	0.01607179642	0.004987716675
Avg	0.02855014801	0.01672101021	0.0120882988	0.02622485161	0.01844620705	0.007947444916	0.02389788628	0.015843153	0.008723974228	0.02243089676	0.0151860714	0.007358074188
Max	0.02643793562	0.01459076094	0.01184717469	0.02168912473	0.0138717527	0.007817372032	0.02248267505	0.01543078215	0.007051892903	0.02248191833	0.01530003548	0.006414071373

	5 Process			6 Process's			7 Process's			8 Process's		
#Run	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to
#Kun	taken	synchronize	compute values									
1	0.04358386993	0.03755187988	0.006031990051	0.02115392685	0.01571583748	0.005438089371	0.02711892128	0.02142715454	0.005691766739	0.06187796593	0.05725002289	0.004627943039
2	0.02268600464	0.01653242111	0.006153583527	0.02109098434	0.01566910744	0.005421876907	0.03754281998	0.03232312202	0.005219697952	0.04545021057	0.04023790359	0.005212306976
3	0.03569293022	0.02978682518	0.005906105042	0.0212199688	0.0156879425	0.005532026291	0.03143596649	0.02611303329	0.005322933197	0.05311203003	0.04787898064	0.005233049393
4	0.02160596848	0.01524782181	0.006358146667	0.02136087418	0.01611924171	0.005241632462	0.03557395935	0.03030323982	0.005270719528	0.3786489964	0.3632779121	0.01537108421
5	0.02175188065	0.01527404785	0.006477832794	0.02109599113	0.01559591293	0.005500078201	0.03585386276	0.0304787159	0.005375146866	0.05378603935	0.04865717888	0.005128860474
6	0.02162098885	0.01524090767	0.006380081177	0.02136898041	0.01608014107	0.00528883934	0.08446002007	0.07917380333	0.005286216736	0.08448600769	0.07950520515	0.004980802536
7	0.02174592018	0.01570606232	0.006039857864	0.0211379528	0.01570463181	0.005433320999	0.03586506844	0.0305082798	0.005356788635	0.03927993774	0.03436613083	0.004913806915
8	0.02243900299	0.01595473289	0.006484270096	0.02108216286	0.01552700996	0.005555152893	0.03955483437	0.03444194794	0.005112886429	0.03596401215	0.03089189529	0.005072116852
9	0.0211930275	0.01652598381	0.004667043686	0.02104711533	0.01554107666	0.005506038666	0.0918469429	0.08655714989	0.005289793015	0.12641716	0.1215791702	0.004837989807
10	0.02121305466	0.01651620865	0.004696846008	0.02127599716	0.01579999924	0.005475997925	0.04592180252	0.04098677635	0.004935026169	0.106623888	0.1015648842	0.00505900383
11	0.0216281414	0.01561522484	0.006012916565	0.02176594734	0.01577305794	0.005992889404	0.03045487404	0.02535700798	0.005097866058	0.03472995758	0.0298538208	0.00487613678
12	0.02242588997	0.0158367157	0.006589174271	0.02150702477	0.01559329033	0.005913734436	0.08964800835	0.08436155319	0.005286455154	0.04290485382	0.03824710846	0.004657745361
13	0.03181695938	0.02733016014	0.00448679924	0.1295120716	0.1239469051	0.005565166473	0.04869580269	0.04370141029	0.004994392395	0.05166006088	0.04670095444	0.004959106445
14	0.02170610428	0.01535511017	0.00635099411	0.02187609673	0.01615166664	0.005724430084	0.04360413551	0.03855204582	0.005052089691	0.03291296959	0.02787995338	0.005033016205
15	0.02148318291	0.01508879662	0.006394386292	0.02173304558	0.01581788063	0.005915164948	0.02799105644	0.02271008492	0.005280971527	0.1506619453	0.1457650661	0.004896879196
16	0.0215408802	0.01512694359	0.006413936615	0.0217859745	0.01579904556	0.00598692894	0.04127502441	0.03545880318	0.005816221237	0.2075920105	0.2027311325	0.004860877991
17	0.0223338604	0.01585221291	0.006481647491	0.02163791656	0.01572561264	0.005912303925	0.04658198357	0.04132914543	0.005252838135	0.03577494621	0.03063583374	0.005139112473
18	0.02232694626	0.01585483551	0.006472110748	0.03023910522	0.0261387825	0.004100322723	0.0424349308	0.03667926788	0.005755662918	0.02885603905	0.0238969326	0.004959106445
19	0.02248811722	0.01592588425	0.006562232971	0.0217320919	0.01574516296	0.00598692894	0.04722189903	0.04183506966	0.005386829376	0.03520488739	0.02943992615	0.005764961243
20	0.03272509575	0.02293992043	0.009785175323	0.02168488503	0.01563644409	0.006048440933	0.3996288776	0.3944003582	0.00522851944	0.03608989716	0.03090786934	0.005182027817
21	0.02164196968	0.01575016975	0.005891799927	0.02171516418	0.01572084427	0.005994319916	0.03832888603	0.03299212456	0.005336761475	0.03802800179	0.03271698952	0.005311012268
22	0.03924107552	0.03327488899	0.005966186523	0.02195811272	0.01625108719	0.005707025528	0.03371691704	0.02843284607	0.005284070969	0.05384802818	0.04899430275	0.004853725433
23	0.02612996101	0.01748991013	0.008640050888	0.02164196968	0.01572108269	0.005920886993	0.04216694832	0.03693890572	0.005228042603	0.09683990479	0.09198403358	0.004855871201
Min	0.0211930275	0.01508879662	0.00448679924	0.02173686028	0.01568508148	0.004100322723	0.02711892128	0.02142715454	0.004935026169	0.02885603905	0.0238969326	0.004627943039
Avg	0.04358386993	0.03755187988	0.009785175323	0.1295120716	0.1239469051	0.006048440933	0.3996288776	0.3944003582	0.005816221237	0.3786489964	0.3632779121	0.01537108421
Max	0.02526177531	0.01894685496	0.006314920342	0.02654884173	0.02093312015	0.005615721578	0.06073580617	0.05543747156	0.005298334619	0.07959781522	0.0741288351	0.005468980126

	9 Process			10 Process's			15 Process's			20 Process's		
#Run	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to	Overall time	Time taken to	Time taken to
#Kun	taken	synchronize	compute values	taken	synchronize	compute values	taken	synchronize	compute values	taken	synchronize	compute values
1	0.2018561363	0.1972072124	0.004648923874	0.06706404686	0.06230688095	0.004757165909	0.2812080383	0.2668330669	0.01437497139	0.4191868305	0.4157910347	0.003395795822
2	0.214951992	0.2104158401	0.004536151886	0.0483880043	0.04378390312	0.004604101181	0.07885503769	0.07544493675	0.003410100937	0.3099229336	0.3065698147	0.003353118896
3	0.05425691605	0.04965591431	0.00460100174	0.08414506912	0.06957888603	0.01456618309	0.3243019581	0.3209691048	0.003332853317	0.4212539196	0.4178769588	0.003376960754
4	0.3359630108	0.3309881687	0.004974842072	0.06176686287	0.05737400055	0.00439286232	0.2822859287	0.2787210941	0.003564834595	0.4681220055	0.4647741318	0.003347873688
5	0.1129369736	0.1079368591	0.005000114441	0.1499090195	0.1455571651	0.004351854324	0.3419809341	0.3382749557	0.003705978394	0.4494380951	0.4460849762	0.003353118896
6	0.0892829895	0.08475708961	0.004525899887	0.04830598831	0.04370498657	0.00460100174	0.1987659931	0.1840832233	0.01468276978	0.5217750072	0.5183858871	0.003389120102
7	0.2530958652	0.2482788563	0.004817008972	0.1552481651	0.1508889198	0.0043592453	0.2624928951	0.2482168674	0.01427602768	0.4531888962	0.449760437	0.003428459167
8	0.03596305847	0.0309741497	0.004988908768	0.05437207222	0.04975390434	0.004618167877	0.3221480846	0.3182780743	0.003870010376	0.5490760803	0.5350980759	0.01397800446
9	0.1412580013	0.1364569664	0.004801034927	0.1376681328	0.1332292557	0.004438877106	0.1567158699	0.1529791355	0.00373673439	0.3441450596	0.3407518864	0.003393173218
10	0.05308294296	0.04818034172	0.004902601242	0.05102705956	0.04649567604	0.004531383514	0.2728588581	0.2690370083	0.003821849823	0.3782758713	0.374894619	0.003381252289
11	0.06465101242	0.06003308296	0.004617929459	0.08987402916	0.08545398712	0.004420042038	0.3138229847	0.3101520538	0.003670930862	0.4891338348	0.4857361317	0.003397703171
12	0.09591698647	0.09096002579	0.004956960678	0.08040595055	0.07580208778	0.004603862762	0.239287138	0.2354791164	0.003808021545	0.5445141792	0.5411372185	0.003376960754
13	0.04590010643	0.04089093208	0.005009174347	0.3248591423	0.3207709789	0.004088163376	0.2391660213	0.2353129387	0.003853082657	0.2323930264	0.2289361954	0.003456830978
14	0.1156449318	0.1110038757	0.004641056061	0.05376386642	0.04913187027	0.004631996155	0.3104760647	0.3067338467	0.003742218018	0.5707700253	0.5673668385	0.003403186798
15	0.05009102821	0.04510688782	0.004984140396	0.1646389961	0.1600060463	0.004632949829	0.3213989735	0.317699194	0.00369977951	0.2921590805	0.2745471001	0.01761198044
16	0.03526902199	0.03060007095	0.004668951035	0.06458282471	0.06043696404	0.004145860672	0.2696819305	0.2658557892	0.003826141357	0.2652790546	0.261661768	0.003617286682
17	0.04555988312	0.04096508026	0.004594802856	0.06347608566	0.05882120132	0.004654884338	0.3209969997	0.3173058033	0.003691196442	0.2703211308	0.2669100761	0.003411054611
18	0.1913621426	0.1865980625	0.004764080048	0.1556949615	0.1513819695	0.004312992096	0.3697030544	0.3547532558	0.01494979858	0.4086670876	0.3914349079	0.01723217964
19	0.04314398766	0.03861379623	0.004530191422	0.09589195251	0.09150290489	0.004389047623	0.2747619152	0.271048069	0.003713846207	0.5454671383	0.5420908928	0.003376245499
20	0.04755806923	0.04266905785	0.004889011383	0.06661391258	0.04902100563	0.01759290695	0.3035228252	0.2890472412	0.01447558403	0.4147801399	0.4113249779	0.003455162048
21	0.05605888367	0.05124926567	0.004809617996	0.05449509621	0.05004310608	0.004451990128	0.3825461864	0.3788638115	0.003682374954	0.4574379921	0.4540278912	0.003410100937
22	0.03416991234	0.02944779396	0.004722118378	0.06143689156	0.05707287788	0.004364013672	0.3142619133	0.3105349541	0.003726959229	0.5615239143	0.5581538677	0.003370046616
23	0.05132508278	0.04521584511	0.006109237671	0.06463098526	0.06016039848	0.004470586777	0.3454620838	0.3307909966	0.01467108727	0.3910498619	0.3739349842	0.0171148777
Min	0.03416991234	0.02944779396	0.004525899887	0.04830598831	0.04370498657	0.004088163376	0.07885503769	0.07544493675	0.003332853317	0.2323930264	0.2289361954	0.003347873688
Avg	0.3359630108	0.3309881687	0.006109237671	0.3248591423	0.3207709789	0.01759290695	0.3825461864	0.3788638115	0.01494979858	0.5707700253	0.5673668385	0.01761198044
Max	0.1030129972	0.09818283371	0.004830163458	0.09557648327	0.09009908593	0.005477397338	0.2837696386	0.2772354147	0.006534223971	0.4242557028	0.4185761161	0.005679586659