4 cores architecture

GRASP exec: java parallel

Size:1000000

Sequential cutoff = 1000

Run number 1

Average sunlight: 133.0873195

28.557233 Milli Seconds

Run number 2

133.0873195

2.455335 Milli Seconds

Run number 3

133.0873195

4.186205 Milli Seconds

Run number 4

133.0873195

3.534789 Milli Seconds

Run number 5

133.0873195

51.054913 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:1000000

Sequential cutoff = 5000

Run number 1

Average sunlight: 133.0873195

24.084261 Milli Seconds

Run number 2

133.0873195

7.938937 Milli Seconds

Run number 3

133.0873195

1.366825 Milli Seconds

Run number 4

133.0873195

1.34811 Milli Seconds

Run number 5

133.0873195

4.415015 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:1000000

Sequential cutoff = 10000

Run number 1

Average sunlight: 133.0873195

21.321027 Milli Seconds

Run number 2

133.0873195

6.099398 Milli Seconds

Run number 3

133.0873195

2.283275 Milli Seconds

Run number 4

133.0873195

2.00013 Milli Seconds

Run number 5

133.0873195

44.185166 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:1000000

Sequential cutoff = 50000

Run number 1

Average sunlight: 133.0873195

19.894433 Milli Seconds

Run number 2

133.0873195

5.86455 Milli Seconds

Run number 3

133.0873195

3.315034 Milli Seconds

Run number 4

133.0873195

2.37021 Milli Seconds

Run number 5

133.0873195

2.781345 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:1000000

Sequential cutoff = 100000

Run number 1

Average sunlight: 133.0873195

16.86013 Milli Seconds

Run number 2

133.0873195

3.51064 Milli Seconds

Run number 3

133.0873195

4.59432 Milli Seconds

Run number 4

133.0873195

3.24621 Milli Seconds

Run number 5

133.0873195

7.327971 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:1000000

Sequential cutoff = 500000

Run number 1

Average sunlight: 133.0873195

17.648589 Milli Seconds

Run number 2

133.0873195

9.668599 Milli Seconds

Run number 3

133.0873195

3.382651 Milli Seconds

Run number 4

133.0873195

7.738501 Milli Seconds

Run number 5

133.0873195

4.524892 Milli Seconds

2 MILLIONS

Size:2000000

Sequential cutoff = 1000

Run number 1

Average sunlight: 133.0873195

46.837314 Milli Seconds

Run number 2

133.0873195

38.492073 Milli Seconds

Run number 3

133.0873195

36.284867 Milli Seconds

Run number 4

133.0873195

5.021152 Milli Seconds

Run number 5

133.0873195

47.206188 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:2000000

Sequential cutoff = 5000

Run number 1

Average sunlight: 133.0873195

34.694665 Milli Seconds

Run number 2

133.0873195

2.107591 Milli Seconds

Run number 3

133.0873195

2.279048 Milli Seconds

Run number 4

133.0873195

5.767351 Milli Seconds

Run number 5

133.0873195

3.168934 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:2000000

Sequential cutoff = 10000

Run number 1

Average sunlight: 133.0873195

32.757927 Milli Seconds

Run number 2

133.0873195

3.546864 Milli Seconds

Run number 3

133.0873195

2.308027 Milli Seconds

Run number 4

133.0873195

2.996874 Milli Seconds

Run number 5

133.0873195

3.277604 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:2000000

Sequential cutoff = 50000

Run number 1

Average sunlight: 133.0873195

25.094286 Milli Seconds

Run number 2

133.0873195

2.686561 Milli Seconds

Run number 3

133.0873195

2.952198 Milli Seconds

Run number 4

133.0873195

2.155285 Milli Seconds

Run number 5

133.0873195

5.446172 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:2000000

Sequential cutoff = 70000

Run number 1

Average sunlight: 133.0873195

46.984622 Milli Seconds

Run number 2

133.0873195

4.050971 Milli Seconds

Run number 3

133.0873195

2.256711 Milli Seconds

Run number 4

133.0873195

4.111947 Milli Seconds

Run number 5

133.0873195

2.769271 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:2000000

Sequential cutoff = 100000

Run number 1

Average sunlight: 133.0873195

29.543714 Milli Seconds

Run number 2

133.0873195

3.344617 Milli Seconds

Run number 3

133.0873195

2.515103 Milli Seconds

Run number 4

133.0873195

3.763599 Milli Seconds

Run number 5

133.0873195

5.371914 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:2000000

Sequential cutoff = 500000

Run number 1

Average sunlight: 133.0873195

28.010261 Milli Seconds

Run number 2

133.0873195

13.461781 Milli Seconds

Run number 3

133.0873195

2.337006 Milli Seconds

Run number 4

133.0873195

2.205395 Milli Seconds

Run number 5

133.0873195

2.374436 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:2000000

Sequential cutoff = 1000000

Run number 1

Average sunlight: 133.0873195

22.708379 Milli Seconds

Run number 2

133.0873195

17.252548 Milli Seconds

Run number 3

133.0873195

5.292223 Milli Seconds

Run number 4

133.0873195

2.300782 Milli Seconds

Run number 5

133.0873195

3.470794 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:2000000

Sequential cutoff = 2000000

Run number 1

Average sunlight: 133.0873195

17.609951 Milli Seconds

Run number 2

133.0873195

8.204575 Milli Seconds

Run number 3

133.0873195

2.448694 Milli Seconds

Run number 4

133.0873195

2.550119 Milli Seconds

Run number 5

133.0873195

4.184997 Milli Seconds

----jGRASP: operation complete.

4 MILLIONS---------------

Size:4000000

Sequential cutoff = 1000

Run number 1

Average sunlight: 133.0873195

156.888492 Milli Seconds

Run number 2

133.0873195

54.890959 Milli Seconds

Run number 3

133.0873195

8.52515 Milli Seconds

Run number 4

133.0873195

25.07376 Milli Seconds

Run number 5

133.0873195

7.350912 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 5000

Run number 1

Average sunlight: 133.0873195

35.152889 Milli Seconds

Run number 2

133.0873195

4.048557 Milli Seconds

Run number 3

133.0873195

4.704197 Milli Seconds

Run number 4

133.0873195

5.310938 Milli Seconds

Run number 5

133.0873195

5.767351 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 10000

Run number 1

Average sunlight: 133.0873195

31.759371 Milli Seconds

Run number 2

133.0873195

5.967182 Milli Seconds

Run number 3

133.0873195

32.585262 Milli Seconds

Run number 4

133.0873195

20.567582 Milli Seconds

Run number 5

133.0873195

3.675456 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 50000

Run number 1

Average sunlight: 133.0873195

29.083678 Milli Seconds

Run number 2

133.0873195

4.934216 Milli Seconds

Run number 3

133.0873195

4.601565 Milli Seconds

Run number 4

133.0873195

3.306582 Milli Seconds

Run number 5

133.0873195

9.86662 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 70000

Run number 1

Average sunlight: 133.0873195

27.533925 Milli Seconds

Run number 2

133.0873195

5.67317 Milli Seconds

Run number 3

133.0873195

4.311175 Milli Seconds

Run number 4

133.0873195

5.772784 Milli Seconds

Run number 5

133.0873195

4.107117 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 100000

Run number 1

Average sunlight: 133.0873195

29.48153 Milli Seconds

Run number 2

133.0873195

5.001832 Milli Seconds

Run number 3

133.0873195

4.239332 Milli Seconds

Run number 4

133.0873195

8.887383 Milli Seconds

Run number 5

133.0873195

5.10205 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 150000

Run number 1

Average sunlight: 133.0873195

34.782808 Milli Seconds

Run number 2

133.0873195

37.079364 Milli Seconds

Run number 3

133.0873195

4.783285 Milli Seconds

Run number 4

133.0873195

6.049289 Milli Seconds

Run number 5

133.0873195

4.005088 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 500000

Run number 1

Average sunlight: 133.0873195

33.042279 Milli Seconds

Run number 2

133.0873195

4.247181 Milli Seconds

Run number 3

133.0873195

4.558097 Milli Seconds

Run number 4

133.0873195

3.654326 Milli Seconds

Run number 5

133.0873195

16.985703 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 1000000

Run number 1

Average sunlight: 133.0873195

34.542527 Milli Seconds

Run number 2

133.0873195

8.632009 Milli Seconds

Run number 3

133.0873195

5.554841 Milli Seconds

Run number 4

133.0873195

3.754543 Milli Seconds

Run number 5

133.0873195

6.670518 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:4000000

Sequential cutoff = 2000000

Run number 1

Average sunlight: 133.0873195

18.648956 Milli Seconds

Run number 2

133.0873195

12.621401 Milli Seconds

Run number 3

133.0873195

8.079604 Milli Seconds

Run number 4

133.0873195

4.912481 Milli Seconds

Run number 5

133.0873195

4.892559 Milli Seconds

8 MILLIONS

Size:8000000

Sequential cutoff = 1000

Run number 1

Average sunlight: 133.0873195

43.033869 Milli Seconds

Run number 2

133.0873195

17.689642 Milli Seconds

Run number 3

133.0873195

30.34304 Milli Seconds

Run number 4

133.0873195

25.254876 Milli Seconds

Run number 5

133.0873195

13.17441 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 5000

Run number 1

Average sunlight: 133.0873195

37.73078 Milli Seconds

Run number 2

133.0873195

11.049914 Milli Seconds

Run number 3

133.0873195

14.849736 Milli Seconds

Run number 4

133.0873195

9.810474 Milli Seconds

Run number 5

133.0873195

8.864443 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 10000

Run number 1

Average sunlight: 133.0873195

36.887381 Milli Seconds

Run number 2

133.0873195

6.916233 Milli Seconds

Run number 3

133.0873195

11.735742 Milli Seconds

Run number 4

133.0873195

9.238749 Milli Seconds

Run number 5

133.0873195

11.815433 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 50000

Run number 1

Average sunlight: 133.0873195

36.532996 Milli Seconds

Run number 2

133.0873195

7.624398 Milli Seconds

Run number 3

133.0873195

21.635566 Milli Seconds

Run number 4

133.0873195

9.501972 Milli Seconds

Run number 5

133.0873195

9.945104 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 70000

Run number 1

Average sunlight: 133.0873195

63.698047 Milli Seconds

Run number 2

133.0873195

8.325922 Milli Seconds

Run number 3

133.0873195

6.131998 Milli Seconds

Run number 4

133.0873195

6.366242 Milli Seconds

Run number 5

133.0873195

6.692253 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 100000

Run number 1

Average sunlight: 133.0873195

31.299939 Milli Seconds

Run number 2

133.0873195

7.550744 Milli Seconds

Run number 3

133.0873195

7.5435 Milli Seconds

Run number 4

133.0873195

11.157376 Milli Seconds

Run number 5

133.0873195

7.139006 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 150000

Run number 1

Average sunlight: 133.0873195

38.263867 Milli Seconds

Run number 2

133.0873195

13.865671 Milli Seconds

Run number 3

133.0873195

6.937967 Milli Seconds

Run number 4

133.0873195

8.4195 Milli Seconds

Run number 5

133.0873195

7.922636 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 200000

Run number 1

Average sunlight: 133.0873195

36.900663 Milli Seconds

Run number 2

133.0873195

7.280277 Milli Seconds

Run number 3

133.0873195

10.946073 Milli Seconds

Run number 4

133.0873195

7.185492 Milli Seconds

Run number 5

133.0873195

26.496731 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 500000

Run number 1

Average sunlight: 133.0873195

37.721724 Milli Seconds

Run number 2

133.0873195

8.182237 Milli Seconds

Run number 3

133.0873195

8.078397 Milli Seconds

Run number 4

133.0873195

7.332801 Milli Seconds

Run number 5

133.0873195

10.292847 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 1000000

Run number 1

Average sunlight: 133.0873195

33.489637 Milli Seconds

Run number 2

133.0873195

8.727398 Milli Seconds

Run number 3

133.0873195

6.243688 Milli Seconds

Run number 4

133.0873195

7.16557 Milli Seconds

Run number 5

133.0873195

8.351279 Milli Seconds

----jGRASP: operation complete.

----jGRASP exec: java parallel

Size:8000000

Sequential cutoff = 2000000

Run number 1

Average sunlight: 133.0873195

35.270011 Milli Seconds

Run number 2

133.0873195

6.834127 Milli Seconds

Run number 3

133.0873195

9.457296 Milli Seconds

Run number 4

133.0873195

7.311067 Milli Seconds

Run number 5

133.0873195

7.404643 Milli Seconds

----jGRASP: operation complete.

SEQUENTIAL