OpenMP Trabalho

**Randômico.cpp**

**1 Núcleo**

Iteracao 1

real 0m0.540s

user 0m0.464s

sys 0m0.071s

Iteracao 2

real 0m0.522s

user 0m0.513s

sys 0m0.010s

Iteracao 3

real 0m0.516s

user 0m0.486s

sys 0m0.030s

Iteracao 4

real 0m0.520s

user 0m0.510s

sys 0m0.010s

Iteracao 5

real 0m0.519s

user 0m0.489s

sys 0m0.030s

Iteracao 6

real 0m0.519s

user 0m0.499s

sys 0m0.020s

Iteracao 7

real 0m0.519s

user 0m0.489s

sys 0m0.030s

Iteracao 8

real 0m0.525s

user 0m0.515s

sys 0m0.010s

Iteracao 9

real 0m0.519s

user 0m0.489s

sys 0m0.030s

Iteracao 10

real 0m0.530s

user 0m0.490s

sys 0m0.040s

Iteracao 11

real 0m0.528s

user 0m0.498s

sys 0m0.030s

Iteracao 12

real 0m0.522s

user 0m0.492s

sys 0m0.030s

Iteracao 13

real 0m0.520s

user 0m0.480s

sys 0m0.040s

Iteracao 14

real 0m0.531s

user 0m0.531s

sys 0m0.000s

Iteracao 15

real 0m0.538s

user 0m0.528s

sys 0m0.010s

Iteracao 16

real 0m0.527s

user 0m0.517s

sys 0m0.010s

Iteracao 17

real 0m0.524s

user 0m0.485s

sys 0m0.040s

Iteracao 18

real 0m0.520s

user 0m0.500s

sys 0m0.020s

Iteracao 19

real 0m0.527s

user 0m0.456s

sys 0m0.071s

Iteracao 20

real 0m0.526s

user 0m0.497s

sys 0m0.030s

2 Nucleos

Iteracao 1

real 0m0.467s

user 0m0.476s

sys 0m0.059s

Iteracao 2

real 0m0.453s

user 0m0.504s

sys 0m0.020s

Iteracao 3

real 0m0.453s

user 0m0.515s

sys 0m0.010s

Iteracao 4

real 0m0.450s

user 0m0.513s

sys 0m0.010s

Iteracao 5

real 0m0.452s

user 0m0.513s

sys 0m0.010s

Iteracao 6

real 0m0.449s

user 0m0.483s

sys 0m0.039s

Iteracao 7

real 0m0.447s

user 0m0.512s

sys 0m0.010s

Iteracao 8

real 0m0.455s

user 0m0.483s

sys 0m0.040s

Iteracao 9

real 0m0.452s

user 0m0.501s

sys 0m0.020s

Iteracao 10

real 0m0.462s

user 0m0.501s

sys 0m0.039s

Iteracao 11

real 0m0.456s

user 0m0.494s

sys 0m0.030s

Iteracao 12

real 0m0.449s

user 0m0.498s

sys 0m0.020s

Iteracao 13

real 0m0.450s

user 0m0.478s

sys 0m0.040s

Iteracao 14

real 0m0.446s

user 0m0.490s

sys 0m0.029s

Iteracao 15

real 0m0.449s

user 0m0.483s

sys 0m0.039s

Iteracao 16

real 0m0.449s

user 0m0.485s

sys 0m0.040s

Iteracao 17

real 0m0.459s

user 0m0.515s

sys 0m0.010s

Iteracao 18

real 0m0.453s

user 0m0.497s

sys 0m0.030s

Iteracao 19

real 0m0.464s

user 0m0.513s

sys 0m0.020s

Iteracao 20

real 0m0.466s

user 0m0.508s

sys 0m0.039s

3 Nucleos

Iteracao 1

real 0m0.444s

user 0m0.482s

sys 0m0.079s

Iteracao 2

real 0m0.427s

user 0m0.516s

sys 0m0.000s

Iteracao 3

real 0m0.433s

user 0m0.511s

sys 0m0.020s

Iteracao 4

real 0m0.417s

user 0m0.471s

sys 0m0.030s

Iteracao 5

real 0m0.425s

user 0m0.501s

sys 0m0.020s

Iteracao 6

real 0m0.422s

user 0m0.452s

sys 0m0.059s

Iteracao 7

real 0m0.428s

user 0m0.504s

sys 0m0.020s

Iteracao 8

real 0m0.427s

user 0m0.506s

sys 0m0.020s

Iteracao 9

real 0m0.433s

user 0m0.532s

sys 0m0.010s

Iteracao 10

real 0m0.425s

user 0m0.473s

sys 0m0.040s

Iteracao 11

real 0m0.421s

user 0m0.510s

sys 0m0.010s

Iteracao 12

real 0m0.429s

user 0m0.493s

sys 0m0.020s

Iteracao 13

real 0m0.434s

user 0m0.512s

sys 0m0.020s

Iteracao 14

real 0m0.437s

user 0m0.519s

sys 0m0.030s

Iteracao 15

real 0m0.432s

user 0m0.515s

sys 0m0.010s

Iteracao 16

real 0m0.444s

user 0m0.514s

sys 0m0.049s

Iteracao 17

real 0m0.443s

user 0m0.526s

sys 0m0.029s

Iteracao 18

real 0m0.432s

user 0m0.547s

sys 0m0.000s

Iteracao 19

real 0m0.426s

user 0m0.492s

sys 0m0.020s

Iteracao 20

real 0m0.427s

user 0m0.477s

sys 0m0.039s

4 Nucleos

Iteracao 1

real 0m0.425s

user 0m0.481s

sys 0m0.048s

Iteracao 2

real 0m0.423s

user 0m0.530s

sys 0m0.019s

Iteracao 3

real 0m0.418s

user 0m0.499s

sys 0m0.030s

Iteracao 4

real 0m0.422s

user 0m0.511s

sys 0m0.030s

Iteracao 5

real 0m0.420s

user 0m0.499s

sys 0m0.019s

Iteracao 6

real 0m0.422s

user 0m0.484s

sys 0m0.039s

Iteracao 7

real 0m0.426s

user 0m0.560s

sys 0m0.010s

Iteracao 8

real 0m0.413s

user 0m0.487s

sys 0m0.020s

Iteracao 9

real 0m0.414s

user 0m0.474s

sys 0m0.049s

Iteracao 10

real 0m0.417s

user 0m0.467s

sys 0m0.040s

Iteracao 11

real 0m0.421s

user 0m0.513s

sys 0m0.039s

Iteracao 12

real 0m0.428s

user 0m0.516s

sys 0m0.020s

Iteracao 13

real 0m0.416s

user 0m0.515s

sys 0m0.020s

Iteracao 14

real 0m0.464s

user 0m0.612s

sys 0m0.020s

Iteracao 15

real 0m0.417s

user 0m0.495s

sys 0m0.020s

Iteracao 16

real 0m0.431s

user 0m0.562s

sys 0m0.020s

Iteracao 17

real 0m0.427s

user 0m0.528s

sys 0m0.010s

Iteracao 18

real 0m0.421s

user 0m0.460s

sys 0m0.058s

Iteracao 19

real 0m0.413s

user 0m0.489s

sys 0m0.010s

Iteracao 20

real 0m0.425s

user 0m0.507s

sys 0m0.030s

5 Nucleos

Iteracao 1

real 0m0.433s

user 0m0.576s

sys 0m0.029s

Iteracao 2

real 0m0.407s

user 0m0.484s

sys 0m0.030s

Iteracao 3

real 0m0.418s

user 0m0.549s

sys 0m0.010s

Iteracao 4

real 0m0.408s

user 0m0.496s

sys 0m0.030s

Iteracao 5

real 0m0.405s

user 0m0.466s

sys 0m0.029s

Iteracao 6

real 0m0.434s

user 0m0.539s

sys 0m0.039s

Iteracao 7

real 0m0.419s

user 0m0.578s

sys 0m0.020s

Iteracao 8

real 0m0.425s

user 0m0.523s

sys 0m0.029s

Iteracao 9

real 0m0.417s

user 0m0.539s

sys 0m0.019s

Iteracao 10

real 0m0.410s

user 0m0.469s

sys 0m0.049s

Iteracao 11

real 0m0.411s

user 0m0.494s

sys 0m0.030s

Iteracao 12

real 0m0.415s

user 0m0.525s

sys 0m0.019s

Iteracao 13

real 0m0.410s

user 0m0.511s

sys 0m0.019s

Iteracao 14

real 0m0.408s

user 0m0.503s

sys 0m0.028s

Iteracao 15

real 0m0.414s

user 0m0.519s

sys 0m0.029s

Iteracao 16

real 0m0.433s

user 0m0.537s

sys 0m0.010s

Iteracao 17

real 0m0.413s

user 0m0.517s

sys 0m0.010s

Iteracao 18

real 0m0.414s

user 0m0.514s

sys 0m0.029s

Iteracao 19

real 0m0.423s

user 0m0.562s

sys 0m0.019s

Iteracao 20

real 0m0.416s

user 0m0.522s

sys 0m0.039s

6 Nucleos

Iteracao 1

real 0m0.424s

user 0m0.553s

sys 0m0.028s

Iteracao 2

real 0m0.419s

user 0m0.586s

sys 0m0.039s

Iteracao 3

real 0m0.410s

user 0m0.564s

sys 0m0.010s

Iteracao 4

real 0m0.404s

user 0m0.525s

sys 0m0.020s

Iteracao 5

real 0m0.408s

user 0m0.554s

sys 0m0.010s

Iteracao 6

real 0m0.434s

user 0m0.548s

sys 0m0.041s

Iteracao 7

real 0m0.407s

user 0m0.512s

sys 0m0.029s

Iteracao 8

real 0m0.416s

user 0m0.563s

sys 0m0.019s

Iteracao 9

real 0m0.413s

user 0m0.549s

sys 0m0.019s

Iteracao 10

real 0m0.412s

user 0m0.517s

sys 0m0.020s

Iteracao 11

real 0m0.445s

user 0m0.566s

sys 0m0.077s

Iteracao 12

real 0m0.411s

user 0m0.544s

sys 0m0.019s

Iteracao 13

real 0m0.411s

user 0m0.574s

sys 0m0.021s

Iteracao 14

real 0m0.410s

user 0m0.541s

sys 0m0.028s

Iteracao 15

real 0m0.411s

user 0m0.558s

sys 0m0.019s

Iteracao 16

real 0m0.402s

user 0m0.503s

sys 0m0.019s

Iteracao 17

real 0m0.412s

user 0m0.530s

sys 0m0.010s

Iteracao 18

real 0m0.418s

user 0m0.616s

sys 0m0.000s

Iteracao 19

real 0m0.412s

user 0m0.526s

sys 0m0.030s

Iteracao 20

real 0m0.407s

user 0m0.497s

sys 0m0.028s

7 Nucleos

Iteracao 1

real 0m0.421s

user 0m0.587s

sys 0m0.028s

Iteracao 2

real 0m0.405s

user 0m0.543s

sys 0m0.020s

Iteracao 3

real 0m0.409s

user 0m0.555s

sys 0m0.020s

Iteracao 4

real 0m0.411s

user 0m0.575s

sys 0m0.020s

Iteracao 5

real 0m0.404s

user 0m0.541s

sys 0m0.029s

Iteracao 6

real 0m0.398s

user 0m0.520s

sys 0m0.000s

Iteracao 7

real 0m0.405s

user 0m0.551s

sys 0m0.020s

Iteracao 8

real 0m0.407s

user 0m0.579s

sys 0m0.019s

Iteracao 9

real 0m0.408s

user 0m0.535s

sys 0m0.010s

Iteracao 10

real 0m0.415s

user 0m0.604s

sys 0m0.019s

Iteracao 11

real 0m0.403s

user 0m0.514s

sys 0m0.019s

Iteracao 12

real 0m0.411s

user 0m0.583s

sys 0m0.028s

Iteracao 13

real 0m0.406s

user 0m0.572s

sys 0m0.019s

Iteracao 14

real 0m0.422s

user 0m0.634s

sys 0m0.021s

Iteracao 15

real 0m0.411s

user 0m0.570s

sys 0m0.028s

Iteracao 16

real 0m0.403s

user 0m0.514s

sys 0m0.019s

Iteracao 17

real 0m0.414s

user 0m0.595s

sys 0m0.030s

Iteracao 18

real 0m0.408s

user 0m0.561s

sys 0m0.038s

Iteracao 19

real 0m0.411s

user 0m0.567s

sys 0m0.041s

Iteracao 20

real 0m0.416s

user 0m0.560s

sys 0m0.056s

8 Nucleos

Iteracao 1

real 0m0.416s

user 0m0.569s

sys 0m0.029s

Iteracao 2

real 0m0.408s

user 0m0.574s

sys 0m0.040s

Iteracao 3

real 0m0.419s

user 0m0.618s

sys 0m0.020s

Iteracao 4

real 0m0.406s

user 0m0.606s

sys 0m0.028s

Iteracao 5

real 0m0.408s

user 0m0.587s

sys 0m0.010s

Iteracao 6

real 0m0.402s

user 0m0.589s

sys 0m0.028s

Iteracao 7

real 0m0.409s

user 0m0.626s

sys 0m0.010s

Iteracao 8

real 0m0.422s

user 0m0.625s

sys 0m0.049s

Iteracao 9

real 0m0.404s

user 0m0.557s

sys 0m0.019s

Iteracao 10

real 0m0.405s

user 0m0.588s

sys 0m0.020s

Iteracao 11

real 0m0.405s

user 0m0.573s

sys 0m0.020s

Iteracao 12

real 0m0.412s

user 0m0.573s

sys 0m0.096s

Iteracao 13

real 0m0.416s

user 0m0.576s

sys 0m0.040s

Iteracao 14

real 0m0.403s

user 0m0.528s

sys 0m0.037s

Iteracao 15

real 0m0.407s

user 0m0.548s

sys 0m0.038s

Iteracao 16

real 0m0.406s

user 0m0.587s

sys 0m0.020s

Iteracao 17

real 0m0.404s

user 0m0.514s

sys 0m0.036s

Iteracao 18

real 0m0.415s

user 0m0.642s

sys 0m0.020s

Iteracao 19

real 0m0.402s

user 0m0.581s

sys 0m0.010s

Iteracao 20

real 0m0.416s

user 0m0.619s

sys 0m0.011s

9 Nucleos

Iteracao 1

real 0m0.416s

user 0m0.571s

sys 0m0.038s

Iteracao 2

real 0m0.408s

user 0m0.605s

sys 0m0.019s

Iteracao 3

real 0m0.402s

user 0m0.502s

sys 0m0.049s

Iteracao 4

real 0m0.408s

user 0m0.582s

sys 0m0.038s

Iteracao 5

real 0m0.411s

user 0m0.597s

sys 0m0.020s

Iteracao 6

real 0m0.402s

user 0m0.559s

sys 0m0.037s

Iteracao 7

real 0m0.402s

user 0m0.615s

sys 0m0.010s

Iteracao 8

real 0m0.408s

user 0m0.582s

sys 0m0.039s

Iteracao 9

real 0m0.405s

user 0m0.608s

sys 0m0.020s

Iteracao 10

real 0m0.413s

user 0m0.634s

sys 0m0.031s

Iteracao 11

real 0m0.421s

user 0m0.545s

sys 0m0.036s

Iteracao 12

real 0m0.403s

user 0m0.623s

sys 0m0.029s

Iteracao 13

real 0m0.401s

user 0m0.571s

sys 0m0.038s

Iteracao 14

real 0m0.408s

user 0m0.664s

sys 0m0.010s

Iteracao 15

real 0m0.404s

user 0m0.574s

sys 0m0.020s

Iteracao 16

real 0m0.419s

user 0m0.564s

sys 0m0.057s

Iteracao 17

real 0m0.413s

user 0m0.673s

sys 0m0.029s

Iteracao 18

real 0m0.407s

user 0m0.604s

sys 0m0.029s

Iteracao 19

real 0m0.408s

user 0m0.669s

sys 0m0.010s

Iteracao 20

real 0m0.404s

user 0m0.582s

sys 0m0.009s

10 Nucleos

Iteracao 1

real 0m0.411s

user 0m0.610s

sys 0m0.039s

Iteracao 2

real 0m0.399s

user 0m0.549s

sys 0m0.097s

Iteracao 3

real 0m0.410s

user 0m0.636s

sys 0m0.020s

Iteracao 4

real 0m0.405s

user 0m0.596s

sys 0m0.028s

Iteracao 5

real 0m0.407s

user 0m0.625s

sys 0m0.029s

Iteracao 6

real 0m0.396s

user 0m0.520s

sys 0m0.039s

Iteracao 7

real 0m0.405s

user 0m0.615s

sys 0m0.049s

Iteracao 8

real 0m0.408s

user 0m0.632s

sys 0m0.020s

Iteracao 9

real 0m0.403s

user 0m0.669s

sys 0m0.000s

Iteracao 10

real 0m0.401s

user 0m0.553s

sys 0m0.020s

Iteracao 11

real 0m0.411s

user 0m0.629s

sys 0m0.039s

Iteracao 12

real 0m0.402s

user 0m0.650s

sys 0m0.019s

Iteracao 13

real 0m0.410s

user 0m0.673s

sys 0m0.029s

Iteracao 14

real 0m0.421s

user 0m0.632s

sys 0m0.042s

Iteracao 15

real 0m0.407s

user 0m0.566s

sys 0m0.046s

Iteracao 16

real 0m0.405s

user 0m0.619s

sys 0m0.000s

Iteracao 17

real 0m0.401s

user 0m0.606s

sys 0m0.019s

Iteracao 18

real 0m0.406s

user 0m0.658s

sys 0m0.039s

Iteracao 19

real 0m0.432s

user 0m0.623s

sys 0m0.064s

Iteracao 20

real 0m0.403s

user 0m0.555s

sys 0m0.045s

11 Nucleos

Iteracao 1

real 0m0.420s

user 0m0.677s

sys 0m0.040s

Iteracao 2

real 0m0.403s

user 0m0.599s

sys 0m0.027s

Iteracao 3

real 0m0.405s

user 0m0.652s

sys 0m0.039s

Iteracao 4

real 0m0.403s

user 0m0.656s

sys 0m0.040s

Iteracao 5

real 0m0.404s

user 0m0.581s

sys 0m0.030s

Iteracao 6

real 0m0.405s

user 0m0.654s

sys 0m0.019s

Iteracao 7

real 0m0.402s

user 0m0.591s

sys 0m0.036s

Iteracao 8

real 0m0.399s

user 0m0.647s

sys 0m0.000s

Iteracao 9

real 0m0.400s

user 0m0.612s

sys 0m0.028s

Iteracao 10

real 0m0.407s

user 0m0.652s

sys 0m0.055s

Iteracao 11

real 0m0.422s

user 0m0.673s

sys 0m0.031s

Iteracao 12

real 0m0.408s

user 0m0.681s

sys 0m0.010s

Iteracao 13

real 0m0.406s

user 0m0.701s

sys 0m0.009s

Iteracao 14

real 0m0.403s

user 0m0.701s

sys 0m0.000s

Iteracao 15

real 0m0.414s

user 0m0.697s

sys 0m0.010s

Iteracao 16

real 0m0.424s

user 0m0.637s

sys 0m0.062s

Iteracao 17

real 0m0.398s

user 0m0.530s

sys 0m0.039s

Iteracao 18

real 0m0.407s

user 0m0.672s

sys 0m0.010s

Iteracao 19

real 0m0.408s

user 0m0.704s

sys 0m0.010s

Iteracao 20

real 0m0.411s

user 0m0.672s

sys 0m0.020s

12 Nucleos

Iteracao 1

real 0m0.407s

user 0m0.602s

sys 0m0.044s

Iteracao 2

real 0m0.402s

user 0m0.633s

sys 0m0.019s

Iteracao 3

real 0m0.398s

user 0m0.610s

sys 0m0.036s

Iteracao 4

real 0m0.404s

user 0m0.584s

sys 0m0.051s

Iteracao 5

real 0m0.401s

user 0m0.629s

sys 0m0.010s

Iteracao 6

real 0m0.427s

user 0m0.599s

sys 0m0.051s

Iteracao 7

real 0m0.404s

user 0m0.681s

sys 0m0.048s

Iteracao 8

real 0m0.404s

user 0m0.680s

sys 0m0.019s

Iteracao 9

real 0m0.404s

user 0m0.600s

sys 0m0.045s

Iteracao 10

real 0m0.401s

user 0m0.551s

sys 0m0.058s

Iteracao 11

real 0m0.422s

user 0m0.725s

sys 0m0.028s

Iteracao 12

real 0m0.403s

user 0m0.667s

sys 0m0.029s

Iteracao 13

real 0m0.408s

user 0m0.699s

sys 0m0.019s

Iteracao 14

real 0m0.400s

user 0m0.650s

sys 0m0.038s

Iteracao 15

real 0m0.402s

user 0m0.620s

sys 0m0.027s

Iteracao 16

real 0m0.419s

user 0m0.705s

sys 0m0.029s

Iteracao 17

real 0m0.401s

user 0m0.631s

sys 0m0.018s

Iteracao 18

real 0m0.401s

user 0m0.620s

sys 0m0.009s

Iteracao 19

real 0m0.404s

user 0m0.696s

sys 0m0.019s

Iteracao 20

real 0m0.403s

user 0m0.661s

sys 0m0.020s

13 Nucleos

Iteracao 1

real 0m0.412s

user 0m0.608s

sys 0m0.040s

Iteracao 2

real 0m0.402s

user 0m0.720s

sys 0m0.019s

Iteracao 3

real 0m0.404s

user 0m0.661s

sys 0m0.018s

Iteracao 4

real 0m0.405s

user 0m0.736s

sys 0m0.037s

Iteracao 5

real 0m0.403s

user 0m0.690s

sys 0m0.019s

Iteracao 6

real 0m0.403s

user 0m0.591s

sys 0m0.049s

Iteracao 7

real 0m0.397s

user 0m0.589s

sys 0m0.029s

Iteracao 8

real 0m0.404s

user 0m0.638s

sys 0m0.047s

Iteracao 9

real 0m0.403s

user 0m0.733s

sys 0m0.020s

Iteracao 10

real 0m0.403s

user 0m0.660s

sys 0m0.009s

Iteracao 11

real 0m0.401s

user 0m0.655s

sys 0m0.028s

Iteracao 12

real 0m0.416s

user 0m0.671s

sys 0m0.027s

Iteracao 13

real 0m0.405s

user 0m0.669s

sys 0m0.028s

Iteracao 14

real 0m0.404s

user 0m0.736s

sys 0m0.020s

Iteracao 15

real 0m0.402s

user 0m0.687s

sys 0m0.019s

Iteracao 16

real 0m0.402s

user 0m0.652s

sys 0m0.030s

Iteracao 17

real 0m0.412s

user 0m0.568s

sys 0m0.037s

Iteracao 18

real 0m0.399s

user 0m0.627s

sys 0m0.017s

Iteracao 19

real 0m0.396s

user 0m0.618s

sys 0m0.010s

Iteracao 20

real 0m0.407s

user 0m0.680s

sys 0m0.028s

14 Nucleos

Iteracao 1

real 0m0.412s

user 0m0.617s

sys 0m0.029s

Iteracao 2

real 0m0.399s

user 0m0.634s

sys 0m0.000s

Iteracao 3

real 0m0.402s

user 0m0.629s

sys 0m0.020s

Iteracao 4

real 0m0.400s

user 0m0.610s

sys 0m0.019s

Iteracao 5

real 0m0.397s

user 0m0.621s

sys 0m0.019s

Iteracao 6

real 0m0.401s

user 0m0.634s

sys 0m0.010s

Iteracao 7

real 0m0.404s

user 0m0.625s

sys 0m0.051s

Iteracao 8

real 0m0.414s

user 0m0.620s

sys 0m0.019s

Iteracao 9

real 0m0.404s

user 0m0.646s

sys 0m0.010s

Iteracao 10

real 0m0.404s

user 0m0.662s

sys 0m0.019s

Iteracao 11

real 0m0.401s

user 0m0.634s

sys 0m0.020s

Iteracao 12

real 0m0.403s

user 0m0.604s

sys 0m0.019s

Iteracao 13

real 0m0.418s

user 0m0.614s

sys 0m0.062s

Iteracao 14

real 0m0.404s

user 0m0.593s

sys 0m0.028s

Iteracao 15

real 0m0.406s

user 0m0.691s

sys 0m0.029s

Iteracao 16

real 0m0.400s

user 0m0.623s

sys 0m0.010s

Iteracao 17

real 0m0.399s

user 0m0.621s

sys 0m0.044s

Iteracao 18

real 0m0.406s

user 0m0.655s

sys 0m0.026s

Iteracao 19

real 0m0.404s

user 0m0.662s

sys 0m0.017s

Iteracao 20

real 0m0.400s

user 0m0.639s

sys 0m0.019s

15 Nucleos

Iteracao 1

real 0m0.415s

user 0m0.644s

sys 0m0.069s

Iteracao 2

real 0m0.402s

user 0m0.663s

sys 0m0.035s

Iteracao 3

real 0m0.399s

user 0m0.609s

sys 0m0.010s

Iteracao 4

real 0m0.395s

user 0m0.684s

sys 0m0.017s

Iteracao 5

real 0m0.396s

user 0m0.570s

sys 0m0.036s

Iteracao 6

real 0m0.396s

user 0m0.658s

sys 0m0.035s

Iteracao 7

real 0m0.401s

user 0m0.643s

sys 0m0.055s

Iteracao 8

real 0m0.397s

user 0m0.680s

sys 0m0.026s

Iteracao 9

real 0m0.396s

user 0m0.603s

sys 0m0.009s

Iteracao 10

real 0m0.394s

user 0m0.667s

sys 0m0.043s

Iteracao 11

real 0m0.400s

user 0m0.689s

sys 0m0.017s

Iteracao 12

real 0m0.428s

user 0m0.641s

sys 0m0.049s

Iteracao 13

real 0m0.401s

user 0m0.722s

sys 0m0.028s

Iteracao 14

real 0m0.400s

user 0m0.773s

sys 0m0.010s

Iteracao 15

real 0m0.396s

user 0m0.658s

sys 0m0.026s

Iteracao 16

real 0m0.395s

user 0m0.686s

sys 0m0.036s

Iteracao 17

real 0m0.412s

user 0m0.658s

sys 0m0.036s

Iteracao 18

real 0m0.398s

user 0m0.677s

sys 0m0.017s

Iteracao 19

real 0m0.401s

user 0m0.698s

sys 0m0.018s

Iteracao 20

real 0m0.401s

user 0m0.682s

sys 0m0.027s

16 Nucleos

Iteracao 1

real 0m0.412s

user 0m0.679s

sys 0m0.036s

Iteracao 2

real 0m0.397s

user 0m0.706s

sys 0m0.027s

Iteracao 3

real 0m0.397s

user 0m0.674s

sys 0m0.036s

Iteracao 4

real 0m0.399s

user 0m0.607s

sys 0m0.037s

Iteracao 5

real 0m0.397s

user 0m0.596s

sys 0m0.037s

Iteracao 6

real 0m0.413s

user 0m0.719s

sys 0m0.035s

Iteracao 7

real 0m0.396s

user 0m0.607s

sys 0m0.028s

Iteracao 8

real 0m0.391s

user 0m0.585s

sys 0m0.018s

Iteracao 9

real 0m0.405s

user 0m0.735s

sys 0m0.036s

Iteracao 10

real 0m0.404s

user 0m0.672s

sys 0m0.030s

Iteracao 11

real 0m0.411s

user 0m0.658s

sys 0m0.029s

Iteracao 12

real 0m0.393s

user 0m0.728s

sys 0m0.018s

Iteracao 13

real 0m0.399s

user 0m0.773s

sys 0m0.028s

Iteracao 14

real 0m0.400s

user 0m0.742s

sys 0m0.037s

Iteracao 15

real 0m0.397s

user 0m0.603s

sys 0m0.028s

Iteracao 16

real 0m0.407s

user 0m0.727s

sys 0m0.065s

Iteracao 17

real 0m0.401s

user 0m0.689s

sys 0m0.035s

Iteracao 18

real 0m0.400s

user 0m0.634s

sys 0m0.039s

Iteracao 19

real 0m0.398s

user 0m0.704s

sys 0m0.017s

Iteracao 20

real 0m0.402s

user 0m0.590s

sys 0m0.055s

**pi.c:**

**Nucleo 1**

**Iteracao 1**

**real 0m0.276s**

**user 0m4.105s**

**sys 0m0.010s**

**Iteracao 2**

**real 0m0.290s**

**user 0m4.261s**

**sys 0m0.000s**

**Iteracao 3**

**real 0m0.285s**

**user 0m4.283s**

**sys 0m0.000s**

**Iteracao 4**

**real 0m0.291s**

**user 0m4.270s**

**sys 0m0.010s**

**Iteracao 5**

**real 0m0.295s**

**user 0m4.332s**

**sys 0m0.000s**

**Iteracao 6**

**real 0m0.290s**

**user 0m4.320s**

**sys 0m0.000s**

**Iteracao 7**

**real 0m0.295s**

**user 0m4.456s**

**sys 0m0.000s**

**Iteracao 8**

**real 0m0.291s**

**user 0m4.395s**

**sys 0m0.000s**

**Iteracao 9**

**real 0m0.296s**

**user 0m4.342s**

**sys 0m0.000s**

**Iteracao 10**

**real 0m0.292s**

**user 0m4.341s**

**sys 0m0.020s**

**Iteracao 11**

**real 0m0.295s**

**user 0m4.350s**

**sys 0m0.010s**

**Iteracao 12**

**real 0m0.300s**

**user 0m4.418s**

**sys 0m0.000s**

**Iteracao 13**

**real 0m0.289s**

**user 0m4.375s**

**sys 0m0.000s**

**Iteracao 14**

**real 0m0.297s**

**user 0m4.416s**

**sys 0m0.000s**

**Iteracao 15**

**real 0m0.305s**

**user 0m4.381s**

**sys 0m0.000s**

**Iteracao 16**

**real 0m0.298s**

**user 0m4.429s**

**sys 0m0.000s**

**Iteracao 17**

**real 0m0.290s**

**user 0m4.355s**

**sys 0m0.000s**

**Iteracao 18**

**real 0m0.286s**

**user 0m4.422s**

**sys 0m0.010s**

**Iteracao 19**

**real 0m0.301s**

**user 0m4.431s**

**sys 0m0.000s**

**Iteracao 20**

**real 0m0.293s**

**user 0m4.401s**

**sys 0m0.000s**

**Nucleo 2**

**Iteracao 1**

**real 0m0.302s**

**user 0m4.518s**

**sys 0m0.020s**

**Iteracao 2**

**real 0m0.305s**

**user 0m4.496s**

**sys 0m0.000s**

**Iteracao 3**

**real 0m0.295s**

**user 0m4.375s**

**sys 0m0.000s**

**Iteracao 4**

**real 0m0.301s**

**user 0m4.395s**

**sys 0m0.010s**

**Iteracao 5**

**real 0m0.296s**

**user 0m4.400s**

**sys 0m0.000s**

**Iteracao 6**

**real 0m0.296s**

**user 0m4.384s**

**sys 0m0.000s**

**Iteracao 7**

**real 0m0.296s**

**user 0m4.457s**

**sys 0m0.000s**

**Iteracao 8**

**real 0m0.296s**

**user 0m4.494s**

**sys 0m0.000s**

**Iteracao 9**

**real 0m0.293s**

**user 0m4.399s**

**sys 0m0.000s**

**Iteracao 10**

**real 0m0.291s**

**user 0m4.400s**

**sys 0m0.000s**

**Iteracao 11**

**real 0m0.297s**

**user 0m4.483s**

**sys 0m0.010s**

**Iteracao 12**

**real 0m0.296s**

**user 0m4.485s**

**sys 0m0.000s**

**Iteracao 13**

**real 0m0.295s**

**user 0m4.429s**

**sys 0m0.000s**

**Iteracao 14**

**real 0m0.293s**

**user 0m4.418s**

**sys 0m0.020s**

**Iteracao 15**

**real 0m0.299s**

**user 0m4.443s**

**sys 0m0.030s**

**Iteracao 16**

**real 0m0.309s**

**user 0m4.551s**

**sys 0m0.000s**

**Iteracao 17**

**real 0m0.292s**

**user 0m4.386s**

**sys 0m0.000s**

**Iteracao 18**

**real 0m0.289s**

**user 0m4.353s**

**sys 0m0.010s**

**Iteracao 19**

**real 0m0.297s**

**user 0m4.480s**

**sys 0m0.000s**

**Iteracao 20**

**real 0m0.294s**

**user 0m4.526s**

**sys 0m0.000s**

**Nucleo 3**

**Iteracao 1**

**real 0m0.289s**

**user 0m4.227s**

**sys 0m0.158s**

**Iteracao 2**

**real 0m0.286s**

**user 0m4.289s**

**sys 0m0.000s**

**Iteracao 3**

**real 0m0.280s**

**user 0m4.245s**

**sys 0m0.000s**

**Iteracao 4**

**real 0m0.274s**

**user 0m4.247s**

**sys 0m0.000s**

**Iteracao 5**

**real 0m0.283s**

**user 0m4.263s**

**sys 0m0.000s**

**Iteracao 6**

**real 0m0.271s**

**user 0m4.192s**

**sys 0m0.000s**

**Iteracao 7**

**real 0m0.277s**

**user 0m4.226s**

**sys 0m0.000s**

**Iteracao 8**

**real 0m0.274s**

**user 0m4.210s**

**sys 0m0.000s**

**Iteracao 9**

**real 0m0.279s**

**user 0m4.283s**

**sys 0m0.000s**

**Iteracao 10**

**real 0m0.273s**

**user 0m4.171s**

**sys 0m0.000s**

**Iteracao 11**

**real 0m0.282s**

**user 0m4.301s**

**sys 0m0.000s**

**Iteracao 12**

**real 0m0.276s**

**user 0m4.285s**

**sys 0m0.000s**

**Iteracao 13**

**real 0m0.280s**

**user 0m4.269s**

**sys 0m0.000s**

**Iteracao 14**

**real 0m0.277s**

**user 0m4.243s**

**sys 0m0.000s**

**Iteracao 15**

**real 0m0.277s**

**user 0m4.256s**

**sys 0m0.000s**

**Iteracao 16**

**real 0m0.282s**

**user 0m4.279s**

**sys 0m0.000s**

**Iteracao 17**

**real 0m0.277s**

**user 0m4.313s**

**sys 0m0.000s**

**Iteracao 18**

**real 0m0.289s**

**user 0m4.358s**

**sys 0m0.000s**

**Iteracao 19**

**real 0m0.277s**

**user 0m4.215s**

**sys 0m0.000s**

**Iteracao 20**

**real 0m0.280s**

**user 0m4.265s**

**sys 0m0.000s**

**Nucleo 4**

**Iteracao 1**

**real 0m0.280s**

**user 0m4.265s**

**sys 0m0.000s**

**Iteracao 2**

**real 0m0.283s**

**user 0m4.281s**

**sys 0m0.000s**

**Iteracao 3**

**real 0m0.277s**

**user 0m4.220s**

**sys 0m0.010s**

**Iteracao 4**

**real 0m0.280s**

**user 0m4.269s**

**sys 0m0.000s**

**Iteracao 5**

**real 0m0.277s**

**user 0m4.238s**

**sys 0m0.000s**

**Iteracao 6**

**real 0m0.285s**

**user 0m4.307s**

**sys 0m0.000s**

**Iteracao 7**

**real 0m0.278s**

**user 0m4.230s**

**sys 0m0.000s**

**Iteracao 8**

**real 0m0.282s**

**user 0m4.265s**

**sys 0m0.010s**

**Iteracao 9**

**real 0m0.280s**

**user 0m4.263s**

**sys 0m0.000s**

**Iteracao 10**

**real 0m0.280s**

**user 0m4.293s**

**sys 0m0.010s**

**Iteracao 11**

**real 0m0.289s**

**user 0m4.337s**

**sys 0m0.000s**

**Iteracao 12**

**real 0m0.285s**

**user 0m4.275s**

**sys 0m0.000s**

**Iteracao 13**

**real 0m0.284s**

**user 0m4.276s**

**sys 0m0.000s**

**Iteracao 14**

**real 0m0.284s**

**user 0m4.327s**

**sys 0m0.000s**

**Iteracao 15**

**real 0m0.281s**

**user 0m4.327s**

**sys 0m0.000s**

**Iteracao 16**

**real 0m0.276s**

**user 0m4.205s**

**sys 0m0.000s**

**Iteracao 17**

**real 0m0.283s**

**user 0m4.303s**

**sys 0m0.000s**

**Iteracao 18**

**real 0m0.280s**

**user 0m4.321s**

**sys 0m0.000s**

**Iteracao 19**

**real 0m0.283s**

**user 0m4.301s**

**sys 0m0.000s**

**Iteracao 20**

**real 0m0.288s**

**user 0m4.293s**

**sys 0m0.010s**

**Nucleo 5**

**Iteracao 1**

**real 0m0.282s**

**user 0m4.272s**

**sys 0m0.010s**

**Iteracao 2**

**real 0m0.278s**

**user 0m4.257s**

**sys 0m0.000s**

**Iteracao 3**

**real 0m0.283s**

**user 0m4.275s**

**sys 0m0.000s**

**Iteracao 4**

**real 0m0.281s**

**user 0m4.300s**

**sys 0m0.000s**

**Iteracao 5**

**real 0m0.281s**

**user 0m4.296s**

**sys 0m0.010s**

**Iteracao 6**

**real 0m0.278s**

**user 0m4.234s**

**sys 0m0.010s**

**Iteracao 7**

**real 0m0.280s**

**user 0m4.276s**

**sys 0m0.000s**

**Iteracao 8**

**real 0m0.286s**

**user 0m4.426s**

**sys 0m0.000s**

**Iteracao 9**

**real 0m0.283s**

**user 0m4.329s**

**sys 0m0.000s**

**Iteracao 10**

**real 0m0.283s**

**user 0m4.295s**

**sys 0m0.000s**

**Iteracao 11**

**real 0m0.282s**

**user 0m4.328s**

**sys 0m0.000s**

**Iteracao 12**

**real 0m0.280s**

**user 0m4.310s**

**sys 0m0.000s**

**Iteracao 13**

**real 0m0.287s**

**user 0m4.322s**

**sys 0m0.000s**

**Iteracao 14**

**real 0m0.281s**

**user 0m4.259s**

**sys 0m0.000s**

**Iteracao 15**

**real 0m0.294s**

**user 0m4.404s**

**sys 0m0.010s**

**Iteracao 16**

**real 0m0.279s**

**user 0m4.350s**

**sys 0m0.000s**

**Iteracao 17**

**real 0m0.282s**

**user 0m4.315s**

**sys 0m0.000s**

**Iteracao 18**

**real 0m0.277s**

**user 0m4.303s**

**sys 0m0.000s**

**Iteracao 19**

**real 0m0.278s**

**user 0m4.311s**

**sys 0m0.010s**

**Iteracao 20**

**real 0m0.283s**

**user 0m4.345s**

**sys 0m0.000s**

**Nucleo 6**

**Iteracao 1**

**real 0m0.283s**

**user 0m4.302s**

**sys 0m0.010s**

**Iteracao 2**

**real 0m0.282s**

**user 0m4.287s**

**sys 0m0.000s**

**Iteracao 3**

**real 0m0.279s**

**user 0m4.304s**

**sys 0m0.000s**

**Iteracao 4**

**real 0m0.280s**

**user 0m4.341s**

**sys 0m0.000s**

**Iteracao 5**

**real 0m0.285s**

**user 0m4.401s**

**sys 0m0.000s**

**Iteracao 6**

**real 0m0.286s**

**user 0m4.373s**

**sys 0m0.000s**

**Iteracao 7**

**real 0m0.289s**

**user 0m4.378s**

**sys 0m0.000s**

**Iteracao 8**

**real 0m0.282s**

**user 0m4.315s**

**sys 0m0.000s**

**Iteracao 9**

**real 0m0.284s**

**user 0m4.385s**

**sys 0m0.000s**

**Iteracao 10**

**real 0m0.285s**

**user 0m4.368s**

**sys 0m0.000s**

**Iteracao 11**

**real 0m0.279s**

**user 0m4.314s**

**sys 0m0.000s**

**Iteracao 12**

**real 0m0.281s**

**user 0m4.329s**

**sys 0m0.000s**

**Iteracao 13**

**real 0m0.287s**

**user 0m4.392s**

**sys 0m0.000s**

**Iteracao 14**

**real 0m0.281s**

**user 0m4.309s**

**sys 0m0.000s**

**Iteracao 15**

**real 0m0.284s**

**user 0m4.337s**

**sys 0m0.000s**

**Iteracao 16**

**real 0m0.290s**

**user 0m4.374s**

**sys 0m0.010s**

**Iteracao 17**

**real 0m0.288s**

**user 0m4.351s**

**sys 0m0.000s**

**Iteracao 18**

**real 0m0.283s**

**user 0m4.362s**

**sys 0m0.000s**

**Iteracao 19**

**real 0m0.276s**

**user 0m4.273s**

**sys 0m0.000s**

**Iteracao 20**

**real 0m0.284s**

**user 0m4.360s**

**sys 0m0.000s**

**Nucleo 7**

**Iteracao 1**

**real 0m0.277s**

**user 0m4.271s**

**sys 0m0.000s**

**Iteracao 2**

**real 0m0.287s**

**user 0m4.353s**

**sys 0m0.000s**

**Iteracao 3**

**real 0m0.285s**

**user 0m4.352s**

**sys 0m0.000s**

**Iteracao 4**

**real 0m0.283s**

**user 0m4.335s**

**sys 0m0.000s**

**Iteracao 5**

**real 0m0.286s**

**user 0m4.336s**

**sys 0m0.000s**

**Iteracao 6**

**real 0m0.287s**

**user 0m4.359s**

**sys 0m0.010s**

**Iteracao 7**

**real 0m0.283s**

**user 0m4.345s**

**sys 0m0.010s**

**Iteracao 8**

**real 0m0.292s**

**user 0m4.456s**

**sys 0m0.000s**

**Iteracao 9**

**real 0m0.298s**

**user 0m4.457s**

**sys 0m0.000s**

**Iteracao 10**

**real 0m0.297s**

**user 0m4.483s**

**sys 0m0.000s**

**Iteracao 11**

**real 0m0.293s**

**user 0m4.430s**

**sys 0m0.000s**

**Iteracao 12**

**real 0m0.288s**

**user 0m4.355s**

**sys 0m0.000s**

**Iteracao 13**

**real 0m0.292s**

**user 0m4.331s**

**sys 0m0.030s**

**Iteracao 14**

**real 0m0.285s**

**user 0m4.363s**

**sys 0m0.000s**

**Iteracao 15**

**real 0m0.292s**

**user 0m4.417s**

**sys 0m0.000s**

**Iteracao 16**

**real 0m0.283s**

**user 0m4.366s**

**sys 0m0.000s**

**Iteracao 17**

**real 0m0.286s**

**user 0m4.339s**

**sys 0m0.000s**

**Iteracao 18**

**real 0m0.285s**

**user 0m4.361s**

**sys 0m0.000s**

**Iteracao 19**

**real 0m0.284s**

**user 0m4.378s**

**sys 0m0.000s**

**Iteracao 20**

**real 0m0.300s**

**user 0m4.524s**

**sys 0m0.000s**

**Nucleo 8**

**Iteracao 1**

**real 0m0.319s**

**user 0m4.706s**

**sys 0m0.010s**

**Iteracao 2**

**real 0m0.303s**

**user 0m4.493s**

**sys 0m0.000s**

**Iteracao 3**

**real 0m0.292s**

**user 0m4.398s**

**sys 0m0.049s**

**Iteracao 4**

**real 0m0.288s**

**user 0m4.407s**

**sys 0m0.000s**

**Iteracao 5**

**real 0m0.306s**

**user 0m4.574s**

**sys 0m0.000s**

**Iteracao 6**

**real 0m0.285s**

**user 0m4.407s**

**sys 0m0.000s**

**Iteracao 7**

**real 0m0.310s**

**user 0m4.670s**

**sys 0m0.000s**

**Iteracao 8**

**real 0m0.305s**

**user 0m4.671s**

**sys 0m0.000s**

**Iteracao 9**

**real 0m0.283s**

**user 0m4.335s**

**sys 0m0.000s**

**Iteracao 10**

**real 0m0.314s**

**user 0m4.650s**

**sys 0m0.040s**

**Iteracao 11**

**real 0m0.289s**

**user 0m4.465s**

**sys 0m0.000s**

**Iteracao 12**

**real 0m0.313s**

**user 0m4.710s**

**sys 0m0.000s**

**Iteracao 13**

**real 0m0.281s**

**user 0m4.321s**

**sys 0m0.000s**

**Iteracao 14**

**real 0m0.301s**

**user 0m4.557s**

**sys 0m0.000s**

**Iteracao 15**

**real 0m0.298s**

**user 0m4.516s**

**sys 0m0.000s**

**Iteracao 16**

**real 0m0.291s**

**user 0m4.391s**

**sys 0m0.000s**

**Iteracao 17**

**real 0m0.284s**

**user 0m4.402s**

**sys 0m0.000s**

**Iteracao 18**

**real 0m0.282s**

**user 0m4.356s**

**sys 0m0.000s**

**Iteracao 19**

**real 0m0.288s**

**user 0m4.419s**

**sys 0m0.010s**

**Iteracao 20**

**real 0m0.288s**

**user 0m4.450s**

**sys 0m0.000s**

Nucleo 9

Iteracao 1

real 0m0.255s

user 0m3.809s

sys 0m0.010s

Iteracao 2

real 0m0.256s

user 0m3.931s

sys 0m0.010s

Iteracao 3

real 0m0.259s

user 0m3.963s

sys 0m0.000s

Iteracao 4

real 0m0.264s

user 0m4.011s

sys 0m0.000s

Iteracao 5

real 0m0.268s

user 0m4.050s

sys 0m0.010s

Iteracao 6

real 0m0.268s

user 0m4.076s

sys 0m0.000s

Iteracao 7

real 0m0.267s

user 0m4.094s

sys 0m0.000s

Iteracao 8

real 0m0.272s

user 0m4.096s

sys 0m0.000s

Iteracao 9

real 0m0.268s

user 0m4.097s

sys 0m0.000s

Iteracao 10

real 0m0.270s

user 0m4.129s

sys 0m0.000s

Iteracao 11

real 0m0.269s

user 0m4.136s

sys 0m0.000s

Iteracao 12

real 0m0.267s

user 0m4.083s

sys 0m0.000s

Iteracao 13

real 0m0.267s

user 0m4.123s

sys 0m0.010s

Iteracao 14

real 0m0.267s

user 0m4.147s

sys 0m0.000s

Iteracao 15

real 0m0.267s

user 0m4.148s

sys 0m0.000s

Iteracao 16

real 0m0.271s

user 0m4.183s

sys 0m0.000s

Iteracao 17

real 0m0.271s

user 0m4.163s

sys 0m0.000s

Iteracao 18

real 0m0.273s

user 0m4.147s

sys 0m0.000s

Iteracao 19

real 0m0.273s

user 0m4.185s

sys 0m0.000s

Iteracao 20

real 0m0.270s

user 0m4.168s

sys 0m0.000s

Nucleo 10

Iteracao 1

real 0m0.267s

user 0m4.097s

sys 0m0.000s

Iteracao 2

real 0m0.269s

user 0m4.160s

sys 0m0.000s

Iteracao 3

real 0m0.274s

user 0m4.217s

sys 0m0.000s

Iteracao 4

real 0m0.275s

user 0m4.169s

sys 0m0.000s

Iteracao 5

real 0m0.275s

user 0m4.197s

sys 0m0.010s

Iteracao 6

real 0m0.275s

user 0m4.199s

sys 0m0.000s

Iteracao 7

real 0m0.274s

user 0m4.211s

sys 0m0.010s

Iteracao 8

real 0m0.274s

user 0m4.195s

sys 0m0.000s

Iteracao 9

real 0m0.275s

user 0m4.177s

sys 0m0.000s

Iteracao 10

real 0m0.279s

user 0m4.218s

sys 0m0.000s

Iteracao 11

real 0m0.272s

user 0m4.151s

sys 0m0.000s

Iteracao 12

real 0m0.275s

user 0m4.194s

sys 0m0.010s

Iteracao 13

real 0m0.276s

user 0m4.238s

sys 0m0.000s

Iteracao 14

real 0m0.275s

user 0m4.215s

sys 0m0.000s

Iteracao 15

real 0m0.280s

user 0m4.233s

sys 0m0.000s

Iteracao 16

real 0m0.272s

user 0m4.180s

sys 0m0.000s

Iteracao 17

real 0m0.275s

user 0m4.236s

sys 0m0.000s

Iteracao 18

real 0m0.269s

user 0m4.160s

sys 0m0.000s

Iteracao 19

real 0m0.273s

user 0m4.158s

sys 0m0.000s

Iteracao 20

real 0m0.273s

user 0m4.219s

sys 0m0.000s

Nucleo 11

Iteracao 1

real 0m0.272s

user 0m4.225s

sys 0m0.000s

Iteracao 2

real 0m0.278s

user 0m4.247s

sys 0m0.010s

Iteracao 3

real 0m0.277s

user 0m4.197s

sys 0m0.010s

Iteracao 4

real 0m0.274s

user 0m4.220s

sys 0m0.000s

Iteracao 5

real 0m0.272s

user 0m4.212s

sys 0m0.000s

Iteracao 6

real 0m0.277s

user 0m4.229s

sys 0m0.000s

Iteracao 7

real 0m0.277s

user 0m4.211s

sys 0m0.000s

Iteracao 8

real 0m0.280s

user 0m4.228s

sys 0m0.010s

Iteracao 9

real 0m0.273s

user 0m4.156s

sys 0m0.039s

Iteracao 10

real 0m0.287s

user 0m4.350s

sys 0m0.000s

Iteracao 11

real 0m0.289s

user 0m4.406s

sys 0m0.000s

Iteracao 12

real 0m0.289s

user 0m4.428s

sys 0m0.000s

Iteracao 13

real 0m0.280s

user 0m4.264s

sys 0m0.000s

Iteracao 14

real 0m0.280s

user 0m4.256s

sys 0m0.000s

Iteracao 15

real 0m0.274s

user 0m4.172s

sys 0m0.000s

Iteracao 16

real 0m0.279s

user 0m4.207s

sys 0m0.010s

Iteracao 17

real 0m0.272s

user 0m4.212s

sys 0m0.010s

Iteracao 18

real 0m0.275s

user 0m4.228s

sys 0m0.000s

Iteracao 19

real 0m0.287s

user 0m4.476s

sys 0m0.010s

Iteracao 20

real 0m0.278s

user 0m4.274s

sys 0m0.000s

Nucleo 12

Iteracao 1

real 0m0.274s

user 0m4.209s

sys 0m0.000s

Iteracao 2

real 0m0.280s

user 0m4.243s

sys 0m0.000s

Iteracao 3

real 0m0.275s

user 0m4.245s

sys 0m0.010s

Iteracao 4

real 0m0.280s

user 0m4.270s

sys 0m0.000s

Iteracao 5

real 0m0.285s

user 0m4.282s

sys 0m0.000s

Iteracao 6

real 0m0.280s

user 0m4.247s

sys 0m0.010s

Iteracao 7

real 0m0.274s

user 0m4.178s

sys 0m0.000s

Iteracao 8

real 0m0.277s

user 0m4.249s

sys 0m0.000s

Iteracao 9

real 0m0.275s

user 0m4.272s

sys 0m0.000s

Iteracao 10

real 0m0.281s

user 0m4.289s

sys 0m0.000s

Iteracao 11

real 0m0.274s

user 0m4.205s

sys 0m0.000s

Iteracao 12

real 0m0.283s

user 0m4.284s

sys 0m0.010s

Iteracao 13

real 0m0.283s

user 0m4.359s

sys 0m0.000s

Iteracao 14

real 0m0.279s

user 0m4.308s

sys 0m0.000s

Iteracao 15

real 0m0.279s

user 0m4.309s

sys 0m0.000s

Iteracao 16

real 0m0.279s

user 0m4.322s

sys 0m0.000s

Iteracao 17

real 0m0.278s

user 0m4.206s

sys 0m0.010s

Iteracao 18

real 0m0.281s

user 0m4.271s

sys 0m0.010s

Iteracao 19

real 0m0.277s

user 0m4.223s

sys 0m0.000s

Iteracao 20

real 0m0.283s

user 0m4.354s

sys 0m0.000s

Nucleo 13

Iteracao 1

real 0m0.277s

user 0m4.246s

sys 0m0.000s

Iteracao 2

real 0m0.279s

user 0m4.280s

sys 0m0.000s

Iteracao 3

real 0m0.279s

user 0m4.272s

sys 0m0.000s

Iteracao 4

real 0m0.288s

user 0m4.384s

sys 0m0.010s

Iteracao 5

real 0m0.280s

user 0m4.323s

sys 0m0.000s

Iteracao 6

real 0m0.280s

user 0m4.291s

sys 0m0.000s

Iteracao 7

real 0m0.282s

user 0m4.330s

sys 0m0.000s

Iteracao 8

real 0m0.285s

user 0m4.336s

sys 0m0.010s

Iteracao 9

real 0m0.282s

user 0m4.290s

sys 0m0.000s

Iteracao 10

real 0m0.285s

user 0m4.338s

sys 0m0.000s

Iteracao 11

real 0m0.277s

user 0m4.280s

sys 0m0.000s

Iteracao 12

real 0m0.283s

user 0m4.316s

sys 0m0.000s

Iteracao 13

real 0m0.283s

user 0m4.277s

sys 0m0.000s

Iteracao 14

real 0m0.280s

user 0m4.240s

sys 0m0.000s

Iteracao 15

real 0m0.280s

user 0m4.258s

sys 0m0.010s

Iteracao 16

real 0m0.280s

user 0m4.340s

sys 0m0.000s

Iteracao 17

real 0m0.284s

user 0m4.325s

sys 0m0.000s

Iteracao 18

real 0m0.279s

user 0m4.350s

sys 0m0.000s

Iteracao 19

real 0m0.282s

user 0m4.282s

sys 0m0.000s

Iteracao 20

real 0m0.281s

user 0m4.298s

sys 0m0.000s

Nucleo 14

Iteracao 1

real 0m0.287s

user 0m4.363s

sys 0m0.000s

Iteracao 2

real 0m0.280s

user 0m4.294s

sys 0m0.000s

Iteracao 3

real 0m0.278s

user 0m4.298s

sys 0m0.020s

Iteracao 4

real 0m0.285s

user 0m4.354s

sys 0m0.000s

Iteracao 5

real 0m0.284s

user 0m4.348s

sys 0m0.000s

Iteracao 6

real 0m0.284s

user 0m4.313s

sys 0m0.000s

Iteracao 7

real 0m0.286s

user 0m4.398s

sys 0m0.000s

Iteracao 8

real 0m0.284s

user 0m4.349s

sys 0m0.000s

Iteracao 9

real 0m0.279s

user 0m4.293s

sys 0m0.000s

Iteracao 10

real 0m0.274s

user 0m4.232s

sys 0m0.000s

Iteracao 11

real 0m0.283s

user 0m4.353s

sys 0m0.000s

Iteracao 12

real 0m0.285s

user 0m4.337s

sys 0m0.000s

Iteracao 13

real 0m0.281s

user 0m4.298s

sys 0m0.000s

Iteracao 14

real 0m0.282s

user 0m4.328s

sys 0m0.000s

Iteracao 15

real 0m0.282s

user 0m4.357s

sys 0m0.000s

Iteracao 16

real 0m0.281s

user 0m4.339s

sys 0m0.000s

Iteracao 17

real 0m0.285s

user 0m4.324s

sys 0m0.000s

Iteracao 18

real 0m0.290s

user 0m4.354s

sys 0m0.000s

Iteracao 19

real 0m0.282s

user 0m4.364s

sys 0m0.010s

Iteracao 20

real 0m0.284s

user 0m4.347s

sys 0m0.000s

Nucleo 15

Iteracao 1

real 0m0.288s

user 0m4.343s

sys 0m0.000s

Iteracao 2

real 0m0.286s

user 0m4.380s

sys 0m0.020s

Iteracao 3

real 0m0.282s

user 0m4.338s

sys 0m0.010s

Iteracao 4

real 0m0.291s

user 0m4.370s

sys 0m0.000s

Iteracao 5

real 0m0.282s

user 0m4.319s

sys 0m0.000s

Iteracao 6

real 0m0.287s

user 0m4.366s

sys 0m0.000s

Iteracao 7

real 0m0.280s

user 0m4.351s

sys 0m0.000s

Iteracao 8

real 0m0.288s

user 0m4.355s

sys 0m0.000s

Iteracao 9

real 0m0.279s

user 0m4.299s

sys 0m0.000s

Iteracao 10

real 0m0.282s

user 0m4.364s

sys 0m0.010s

Iteracao 11

real 0m0.284s

user 0m4.347s

sys 0m0.000s

Iteracao 12

real 0m0.285s

user 0m4.370s

sys 0m0.000s

Iteracao 13

real 0m0.282s

user 0m4.374s

sys 0m0.000s

Iteracao 14

real 0m0.283s

user 0m4.369s

sys 0m0.000s

Iteracao 15

real 0m0.284s

user 0m4.370s

sys 0m0.000s

Iteracao 16

real 0m0.282s

user 0m4.312s

sys 0m0.000s

Iteracao 17

real 0m0.283s

user 0m4.346s

sys 0m0.000s

Iteracao 18

real 0m0.290s

user 0m4.388s

sys 0m0.000s

Iteracao 19

real 0m0.288s

user 0m4.399s

sys 0m0.000s

Iteracao 20

real 0m0.284s

user 0m4.390s

sys 0m0.000s

Nucleo 16

Iteracao 1

real 0m0.287s

user 0m4.364s

sys 0m0.010s

Iteracao 2

real 0m0.279s

user 0m4.320s

sys 0m0.000s

Iteracao 3

real 0m0.291s

user 0m4.395s

sys 0m0.000s

Iteracao 4

real 0m0.288s

user 0m4.401s

sys 0m0.000s

Iteracao 5

real 0m0.283s

user 0m4.348s

sys 0m0.000s

Iteracao 6

real 0m0.295s

user 0m4.567s

sys 0m0.000s

Iteracao 7

real 0m0.286s

user 0m4.403s

sys 0m0.000s

Iteracao 8

real 0m0.282s

user 0m4.373s

sys 0m0.000s

Iteracao 9

real 0m0.286s

user 0m4.359s

sys 0m0.000s

Iteracao 10

real 0m0.289s

user 0m4.407s

sys 0m0.000s

Iteracao 11

real 0m0.291s

user 0m4.385s

sys 0m0.000s

Iteracao 12

real 0m0.282s

user 0m4.301s

sys 0m0.000s

Iteracao 13

real 0m0.277s

user 0m4.279s

sys 0m0.010s

Iteracao 14

real 0m0.292s

user 0m4.404s

sys 0m0.000s

Iteracao 15

real 0m0.289s

user 0m4.388s

sys 0m0.010s

Iteracao 16

real 0m0.285s

user 0m4.395s

sys 0m0.000s

Iteracao 17

real 0m0.289s

user 0m4.398s

sys 0m0.000s

Iteracao 18

real 0m0.285s

user 0m4.372s

sys 0m0.000s

Iteracao 19

real 0m0.290s

user 0m4.444s

sys 0m0.000s

Iteracao 20

real 0m0.305s

user 0m4.403s

sys 0m0.116s