

Lab 2 - Computação Concorrente

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Computador usado para os testes:

- Macbook Pro 2017
- 8GB Ram
- i5 dual core

Dimensão	1 thread	2 threads	4 threads
500	0.704647/seg	0.388394/seg	0.366605/seg
1000	7.189646/seg	4.057624/seg	3.803638/seg
2000	73.692655/seg	55.063260/seg	59.994209/seg

Dimensão 500 e 1 thread:

A screenshot of a terminal window with a dark background. The window title is 'ademariosantana@jjjjjj:~'. The terminal shows six lines of command execution. Each line starts with a green arrow, followed by 'lab2 git:(main) x ./lab2 500 1'. Below each command is a line showing the execution time: 'Tempo multiplicacao:0.726059', 'Tempo multiplicacao:0.707916', 'Tempo multiplicacao:0.771767', 'Tempo multiplicacao:0.684703', 'Tempo multiplicacao:0.789887', and the last line is partially cut off.

```
→ lab2 git:(main) x ./lab2 500 1
Tempo multiplicacao:0.726059
→ lab2 git:(main) x ./lab2 500 1
Tempo multiplicacao:0.707916
→ lab2 git:(main) x ./lab2 500 1
Tempo multiplicacao:0.771767
→ lab2 git:(main) x ./lab2 500 1
Tempo multiplicacao:0.684703
→ lab2 git:(main) x ./lab2 500 1
Tempo multiplicacao:0.789887
→ lab2 git:(main) x
```

Dimensão 500 e 2 threads:

```
ademariosantana@jjjjj  
→ lab2 git:(main) x ./lab2 500 2  
Tempo multiplicacao:0.403928  
→ lab2 git:(main) x ./lab2 500 2  
Tempo multiplicacao:0.405561  
→ lab2 git:(main) x ./lab2 500 2  
Tempo multiplicacao:0.389538  
→ lab2 git:(main) x ./lab2 500 2  
Tempo multiplicacao:0.390861  
→ lab2 git:(main) x ./lab2 500 2  
Tempo multiplicacao:0.398230  
→ lab2 git:(main) x █
```

Dimensão 500 e 4 threads:

```
ademariosantana@jjjjj  
→ lab2 git:(main) x ./lab2 500 4  
Tempo multiplicacao:0.365662  
→ lab2 git:(main) x ./lab2 500 4  
Tempo multiplicacao:0.376733  
→ lab2 git:(main) x ./lab2 500 4  
Tempo multiplicacao:0.356283  
→ lab2 git:(main) x ./lab2 500 4  
Tempo multiplicacao:0.380898  
→ lab2 git:(main) x ./lab2 500 4  
Tempo multiplicacao:0.412439  
→ lab2 git:(main) x █
```

Dimensão 1000 e 1 thread:

```
ademariosantana@jjjjjj:
→ lab2 git:(main) x ./lab2 1000 1
Tempo multiplicacao:7.628417
→ lab2 git:(main) x ./lab2 1000 1
Tempo multiplicacao:7.557800
→ lab2 git:(main) x ./lab2 1000 1
Tempo multiplicacao:8.152200
→ lab2 git:(main) x ./lab2 1000 1
Tempo multiplicacao:8.189865
→ lab2 git:(main) x ./lab2 1000 1
Tempo multiplicacao:8.251995
→ lab2 git:(main) x █
```

Dimensão 1000 e 2 threads:

```
ademariosantana@jjjjjj:
→ lab2 git:(main) x ./lab2 1000 2
Tempo multiplicacao:4.023438
→ lab2 git:(main) x ./lab2 1000 2
Tempo multiplicacao:3.895224
→ lab2 git:(main) x ./lab2 1000 2
Tempo multiplicacao:4.017708
→ lab2 git:(main) x ./lab2 1000 2
Tempo multiplicacao:3.989604
→ lab2 git:(main) x ./lab2 1000 2
Tempo multiplicacao:4.038879
→ lab2 git:(main) x █
```

Dimensão 1000 e 4 threads:

```
ademariosantana@jjjjj  
→ lab2 git:(main) x ./lab2 1000 4  
Tempo multiplicacao:3.986825  
→ lab2 git:(main) x ./lab2 1000 4  
Tempo multiplicacao:3.803638  
→ lab2 git:(main) x ./lab2 1000 4  
Tempo multiplicacao:3.883164  
→ lab2 git:(main) x ./lab2 1000 4  
Tempo multiplicacao:3.911204  
→ lab2 git:(main) x ./lab2 1000 4  
Tempo multiplicacao:3.928267  
→ lab2 git:(main) x
```

Dimensão 2000 e 1 thread:

```
ademariosantana@jjjjj  
→ lab2 git:(main) x ./lab2 2000 1  
Tempo multiplicacao:89.847440  
→ lab2 git:(main) x ./lab2 2000 1  
Tempo multiplicacao:86.367350  
→ lab2 git:(main) x ./lab2 2000 1  
Tempo multiplicacao:85.735964  
→ lab2 git:(main) x ./lab2 2000 1  
Tempo multiplicacao:85.562283  
→ lab2 git:(main) x ./lab2 2000 1  
Tempo multiplicacao:114.369342  
→ lab2 git:(main) x
```

Dimensão 2000 e 2 threads:

```
ademariosantana@jjjjj:~  
→ lab2 git:(main) x ./lab2 2000 2  
Tempo multiplicacao:47.041011  
→ lab2 git:(main) x ./lab2 2000 2  
Tempo multiplicacao:49.082082  
→ lab2 git:(main) x ./lab2 2000 2  
Tempo multiplicacao:67.966560  
→ lab2 git:(main) x ./lab2 2000 2  
Tempo multiplicacao:41.225647  
→ lab2 git:(main) x ./lab2 2000 2  
Tempo multiplicacao:40.318309  
→ lab2 git:(main) x
```

Dimensão 2000 e 4 threads:

```
ademariosantana@jjjjj:~/St  
→ lab2 git:(main) x ./lab2 2000 4  
Tempo multiplicacao:45.099495  
→ lab2 git:(main) x ./lab2 2000 4  
Tempo multiplicacao:43.350053  
→ lab2 git:(main) x ./lab2 2000 4  
Tempo multiplicacao:40.007319  
→ lab2 git:(main) x ./lab2 2000 4  
Tempo multiplicacao:38.946934  
→ lab2 git:(main) x ./lab2 2000 4  
Tempo multiplicacao:48.676253  
→ lab2 git:(main) x
```