

Relatório Lab 3 - Computação Concorrente

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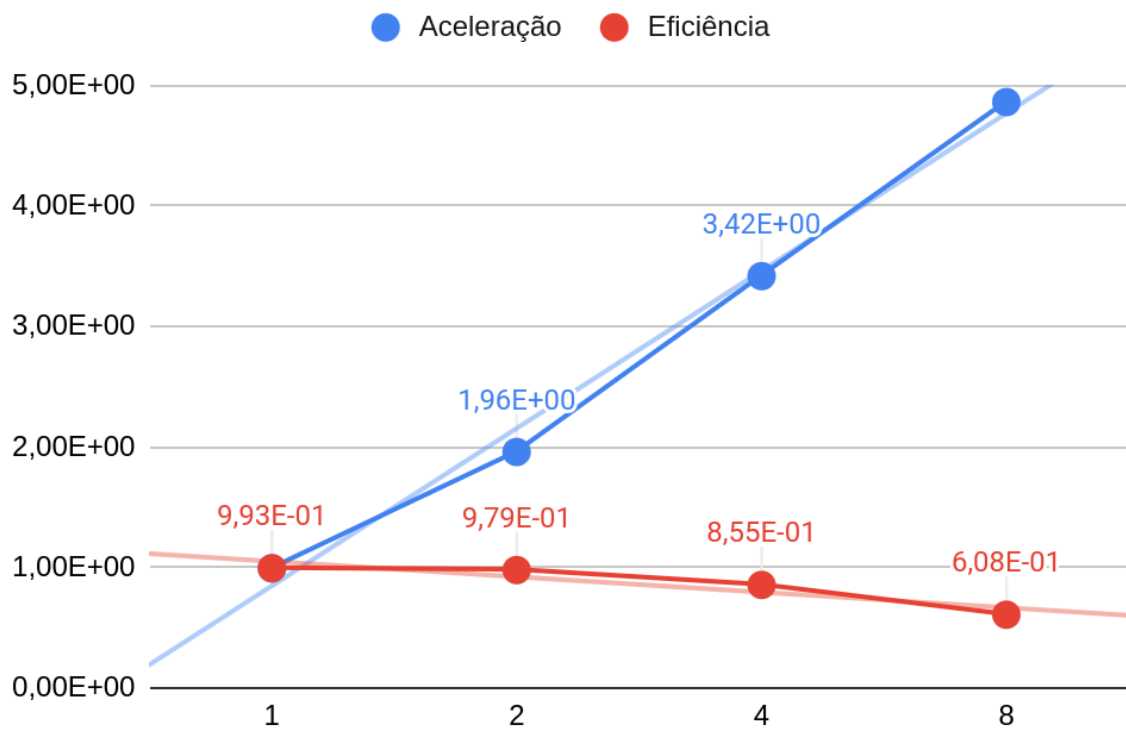
Aluno: Tales Moreira

DRE: 119047549

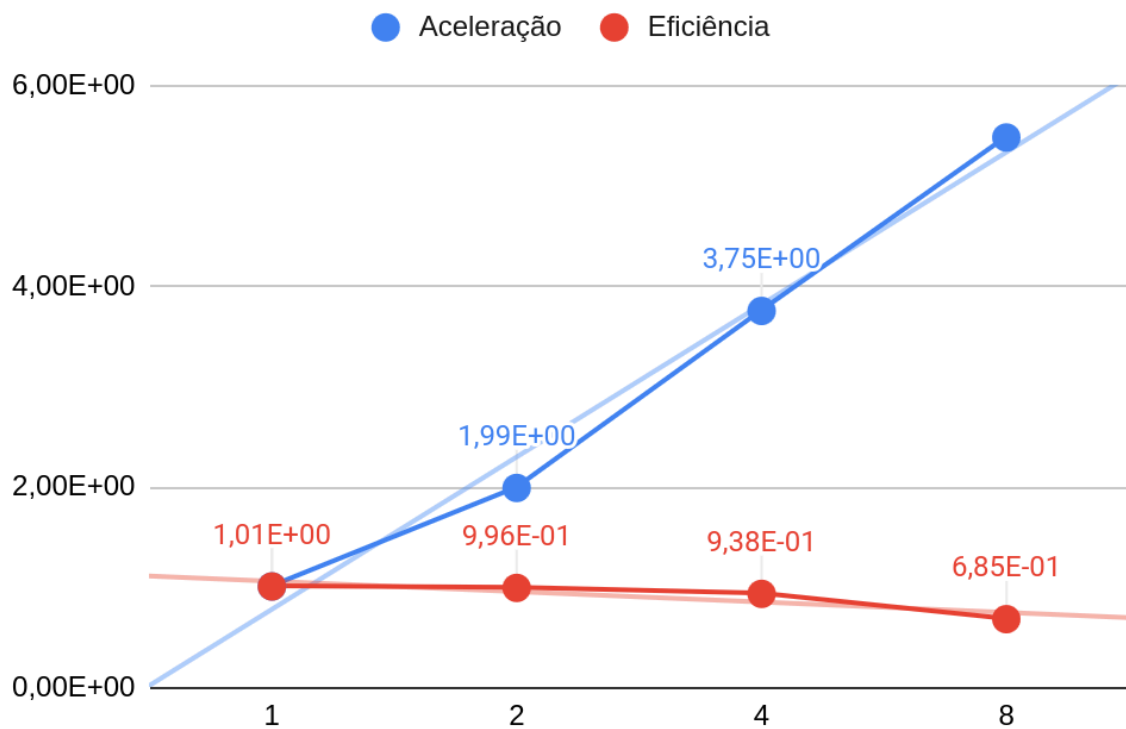
Valores obtidos através dos scripts desenvolvidos para o Lab3.

Taman ho da Matriz	500	500	500	500	500	1000	1000	1000	1000	1000	2000	2000	2000	2000	2000
Númer o de thread	Seq	1	2	4	8	Seq	1	2	4	8	Seq	1	2	4	8
Tempo 1	2,78E-04	2,84E-04	1,45E-04	8,25E-05	5,91E-05	2,43E-03	2,42E-03	1,23E-03	6,52E-04	4,45E-04	2,52E-02	2,51E-02	1,28E-02	6,69E-03	4,72E-03
Tempo 2	2,74E-04	2,74E-04	1,41E-04	7,60E-05	5,45E-05	2,45E-03	2,39E-03	1,23E-03	6,48E-04	4,41E-04	2,53E-02	2,53E-02	1,28E-02	6,69E-03	4,72E-03
Tempo 3	2,74E-04	2,74E-04	1,38E-04	8,18E-05	5,75E-05	2,43E-03	2,42E-03	1,21E-03	6,49E-04	4,48E-04	2,53E-02	2,53E-02	1,28E-02	6,68E-03	4,73E-03
Tempo 4	2,74E-04	2,73E-04	1,38E-04	7,85E-05	5,60E-05	2,44E-03	2,42E-03	1,22E-03	6,42E-04	4,45E-04	2,52E-02	2,49E-02	1,26E-02	6,70E-03	4,71E-03
Tempo 5	2,73E-04	2,76E-04	1,38E-04	8,26E-05	5,50E-05	2,43E-03	2,40E-03	1,22E-03	6,53E-04	4,42E-04	2,54E-02	2,49E-02	1,26E-02	6,67E-03	4,72E-03
Média	2,74E-04	2,76E-04	1,40E-04	8,03E-05	5,64E-05	2,44E-03	2,41E-03	1,22E-03	6,49E-04	4,44E-04	2,53E-02	2,51E-02	1,27E-02	6,68E-03	4,72E-03
Aceler ação		9,93E-01	1,96E+00	3,42E+00	4,86E+00		1,01E+00	1,99E+00	3,75E+00	5,48E+00		1,01E+00	1,99E+00	3,78E+00	5,36E+00
Eficiên cia		9,93E-01	9,79E-01	8,55E-01	6,08E-01		1,01E+00	9,96E-01	9,38E-01	6,85E-01		1,01E+00	9,95E-01	9,46E-01	6,70E-01

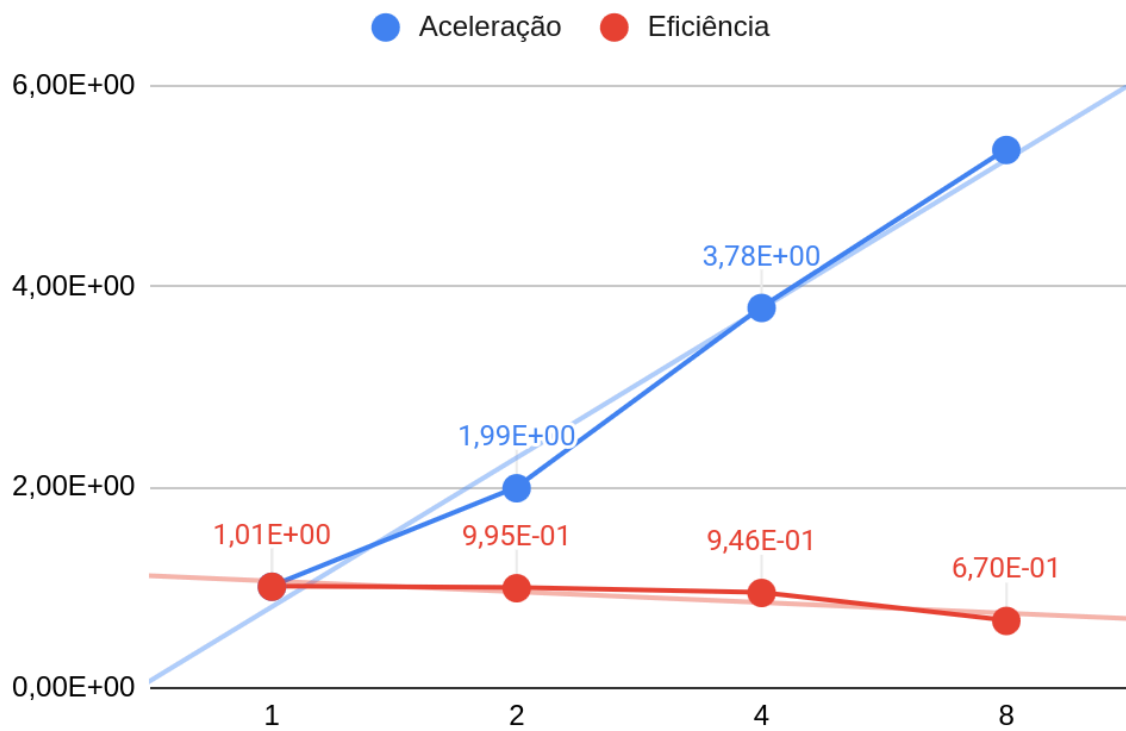
Matriz 500x500

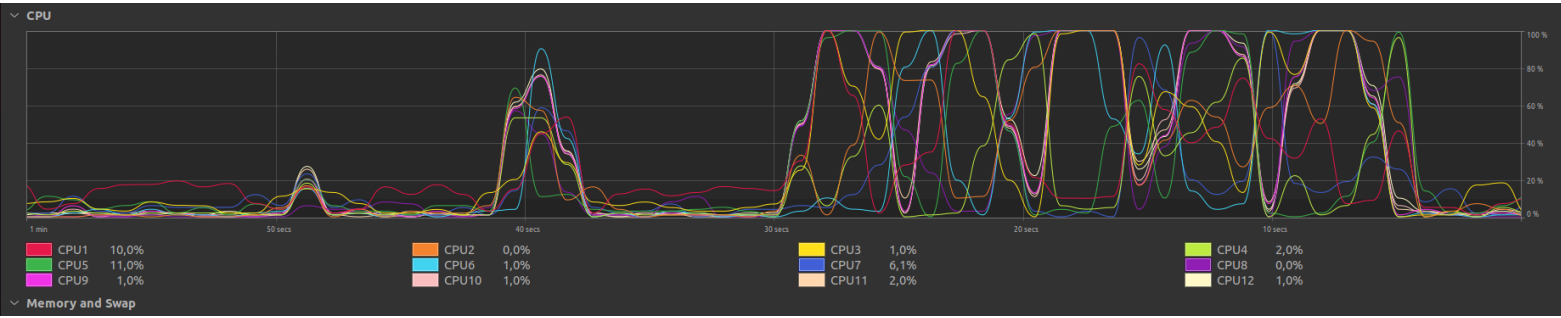


Matriz 1000x1000



Matriz 2000x2000





Monitoramento da CPU rodando o script com 8 threads; Primeiro spike, matriz 500x500, segundo spike, matriz 1000x1000, terceiro spike, matriz 2000x2000.

Informações da máquina na qual os scripts foram rodados.

id:

cpu

description:

CPU

product:

12th Gen Intel(R) Core(TM) i5-12450H

vendor:

Intel Corp.

physical id:

4

bus info:

cpu@0

version:

6.154.3

serial:

To Be Filled By O.E.M.

slot:

U3E1

size:

3890MHz

capacity:

4400MHz

width:

64 bits

clock:

100MHz

configuration:

cores

=

8

enabledcores

=

8

microcode

=

1075

threads

=

12