

Relatório de desempenho

Máquina 01- Henrique

Dados: AMD Ryzen 5 5600 6-Core Processor 3.50 GHz

OpenMP

```
root@Henrique-Deskto:/home/linuxhenrique/dev# /usr/bin/time -v ./openmptestefinal
Dados analisado:
{
  "dataset_statistics": {
    "arestas": 5105039,
    "coeficiente_de_agrupamento_medio": 0.5142961475355128,
    "diametro": 21,
    "diametro_efetivo_90%": 9,
    "fracao_de_triangulos-fechados": 0.0552306264884374,
    "mais_largo_scc": {
      "arestas": 3419124,
      "fracao_total_de_arestas": 0.6697547266534105,
      "fracao_total_de_nos": 0.49653025591717836,
      "nos": 434818
    },
    "mais_largo_wcc": {
      "arestas": 4291352,
      "fracao_total_de_arestas": 0.8406110119824746,
      "fracao_total_de_nos": 0.9772630987549574,
      "nos": 855802
    },
    "nos": 875713,
    "numero_de_triangulos": 13391903
  }
}
```

```
-----
Command being timed: "./openmptestefinal"
User time (seconds): 707.21
System time (seconds): 0.89
Percent of CPU this job got: 1045%
Elapsed (wall clock) time (h:mm:ss or m:ss): 1:07.74
Average shared text size (kbytes): 0
Average unshared data size (kbytes): 0
Average stack size (kbytes): 0
Average total size (kbytes): 0
Maximum resident set size (kbytes): 461608
Average resident set size (kbytes): 0
Major (requiring I/O) page faults: 33
Minor (reclaiming a frame) page faults: 74188
Voluntary context switches: 5160
Involuntary context switches: 7032
Swaps: 0
File system inputs: 152584
File system outputs: 0
Socket messages sent: 0
Socket messages received: 0
Signals delivered: 0
Page size (bytes): 4096
Exit status: 0
```

```
root@Henrique-Deskto:/home/linuxhenrique/dev# |
```

Pthreads

```
Command being timed: "./pteste5"
User time (seconds): 615.22
System time (seconds): 0.41
Percent of CPU this job got: 655%
Elapsed (wall clock) time (h:mm:ss or m:ss): 1:33.90
Average shared text size (kbytes): 0
Average unshared data size (kbytes): 0
Average stack size (kbytes): 0
Average total size (kbytes): 0
Maximum resident set size (kbytes): 442948
Average resident set size (kbytes): 0
Major (requiring I/O) page faults: 1
Minor (reclaiming a frame) page faults: 69579
Voluntary context switches: 1270
Involuntary context switches: 266
Swaps: 0
File system inputs: 147344
File system outputs: 0
Socket messages sent: 0
Socket messages received: 0
Signals delivered: 0
Page size (bytes): 4096
Exit status: 0
```

Máquina 02- Henrique

AMD Ryzen™ 5 2500U with Radeon™ Vega Mobile Gfx × 8

```
Command being timed: "./teste07"
User time (seconds): 1254.13
System time (seconds): 2.61
Percent of CPU this job got: 623%
Elapsed (wall clock) time (h:mm:ss or m:ss): 3:21.51
Average shared text size (kbytes): 0
Average unshared data size (kbytes): 0
Average stack size (kbytes): 0
Average total size (kbytes): 0
Maximum resident set size (kbytes): 439128
Average resident set size (kbytes): 0
Major (requiring I/O) page faults: 1
Minor (reclaiming a frame) page faults: 141784
Voluntary context switches: 77
Involuntary context switches: 250559
Swaps: 0
File system inputs: 31696
File system outputs: 0
Socket messages sent: 0
Socket messages received: 0
Signals delivered: 0
Page size (bytes): 4096
Exit status: 0
```

OpenMP

Pthreads

```
2582-001/temporario/dev$ /usr/bin/time -v ./pt2
Command being timed: "./pt2"
User time (seconds): 1219.11
System time (seconds): 1.31
Percent of CPU this job got: 676%
Elapsed (wall clock) time (h:mm:ss or m:ss): 3:00.32
Average shared text size (kbytes): 0
Average unshared data size (kbytes): 0
Average stack size (kbytes): 0
Average total size (kbytes): 0
Maximum resident set size (kbytes): 440344
Average resident set size (kbytes): 0
Major (requiring I/O) page faults: 0
Minor (reclaiming a frame) page faults: 142161
Voluntary context switches: 25
Involuntary context switches: 112241
Swaps: 0
File system inputs: 0
File system outputs: 0
Socket messages sent: 0
Socket messages received: 0
Signals delivered: 0
Page size (bytes): 4096
Exit status: 0
```

Máquina 03- Geibson

Maquina virtual com 4 Núcleos alocados

Pthreads

```
}  
Command being timed: "./graph_analysis"  
User time (seconds): 475.72  
System time (seconds): 4.85  
Percent of CPU this job got: 342%  
Elapsed (wall clock) time (h:mm:ss or m:ss): 2:20.28  
Average shared text size (kbytes): 0  
Average unshared data size (kbytes): 0  
Average stack size (kbytes): 0  
Average total size (kbytes): 0  
Maximum resident set size (kbytes): 440792  
Average resident set size (kbytes): 0  
Major (requiring I/O) page faults: 0  
Minor (reclaiming a frame) page faults: 142198  
Voluntary context switches: 18  
Involuntary context switches: 64969  
Swaps: 0  
File system inputs: 0  
File system outputs: 0  
Socket messages sent: 0  
Socket messages received: 0  
Signals delivered: 0  
Page size (bytes): 4096  
Exit status: 0
```

OpenMP

```
=====
Arquivo 'dados.json' gerado com sucesso!
Command being timed: "./exec"
User time (seconds): 436.73
System time (seconds): 50.53
Percent of CPU this job got: 349%
Elapsed (wall clock) time (h:mm:ss or m:ss): 2:19.44
Average shared text size (kbytes): 0
Average unshared data size (kbytes): 0
Average stack size (kbytes): 0
Average total size (kbytes): 0
Maximum resident set size (kbytes): 419628
Average resident set size (kbytes): 0
Major (requiring I/O) page faults: 0
Minor (reclaiming a frame) page faults: 136854
Voluntary context switches: 21
Involuntary context switches: 64248
Swaps: 0
File system inputs: 0
File system outputs: 8
Socket messages sent: 0
Socket messages received: 0
Signals delivered: 0
Page size (bytes): 4096
Exit status: 0
```