1. **Introdução**
2. **Ambiente de experimentação**

**2.1 Sistema Operacional**

**2.2 Detalhes da CPU**

**2.3 Versão do compilador**

1. **Experimentos**

**3.1 Matriz 128x128**

**3.2 Matriz 256 x256**

**3.3 Matriz 512x512**

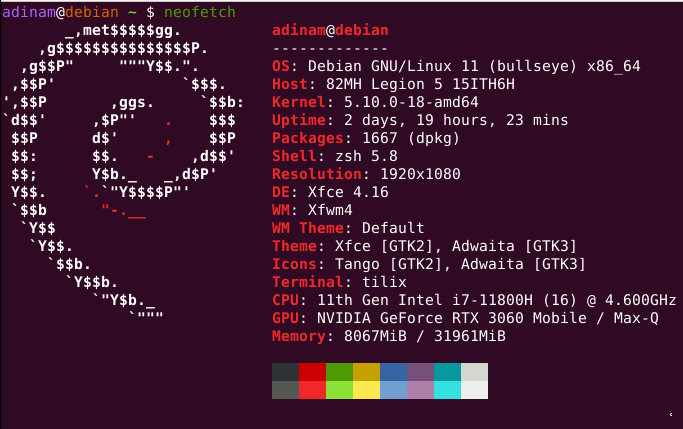
1. **Conclusão**

**Introdução**

Foram executados testes em matrizes 128x129, 256x256 e 512x512. Com 1 thread, 2 threads, 4 threads e 8 threas. Para extrair o valor do tempo de execução, cada teste foi executado 5 vezes e extraída a média dessas saídas.

**Ambiente de experimentação**

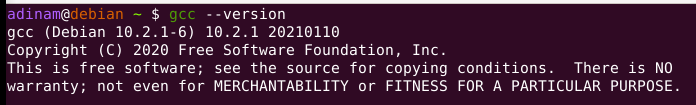
**2.1 Sistema Operacional**

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**2.2 Detalhes da CPU**

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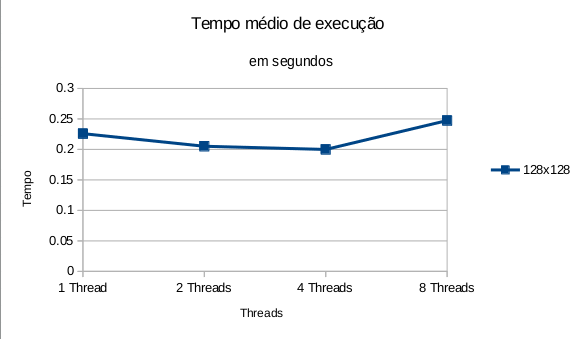
**2.3 Versão do compilador**

**Experimentos**

**3.1 Matriz 128x128**

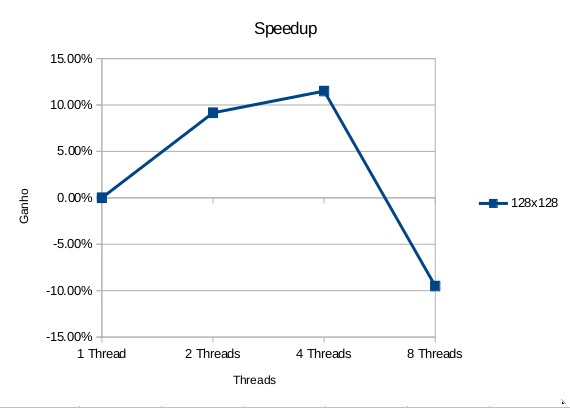
Tempo médio de execução em segundos:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 Thread | 2 Threads | 4 Threads | 8 Threads |
| 128x128 | 0.2259034 | 0.205226 | 0.1999352 | 0.2473826 |



Speedup:

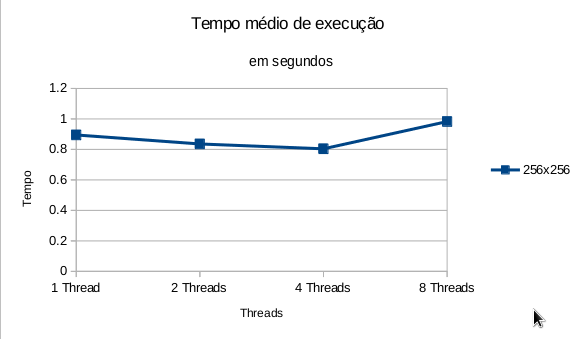
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 Thread | 2 Threads | 4 Threads | 8 Threads |
| 128x128 |  | 9.15% | 11.50% | -9.51% |

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**3.2 Matriz 256 x256**

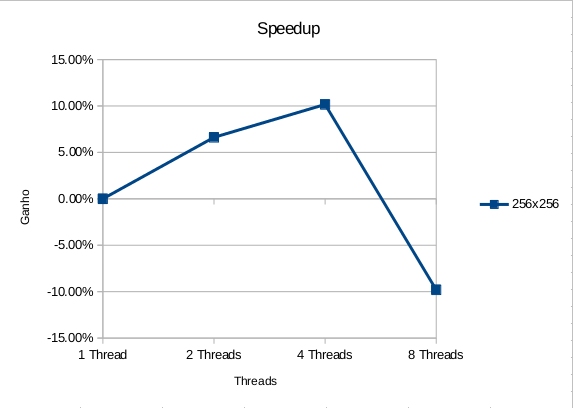
Tempo médio de execução em segundos:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 Thread | 2 Threads | 4 Threads | 8 Threads |
| 256x256 | 0.8949744 | 0.835742 | 0.8040144 | 0.9827578 |



Speedup:

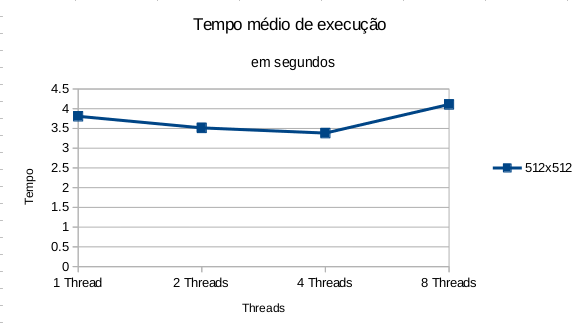
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 Thread | 2 Threads | 4 Threads | 8 Threads |
| 256x256 |  | 6.62% | 10.16% | -9.81% |



**3.3 Matriz 512x512**

Tempo médio de execução em segundos:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 Thread | 2 Threads | 4 Threads | 8 Threads |
| 512x512 | 3.8077128 | 3.5143934 | 3.3827336 | 4.1085796 |



Speedup:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 Thread | 2 Threads | 4 Threads | 8 Threads |
| 512x512 |  | 7.70% | 11.16% | -7.90% |

