

U19349302

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COS 284 assignment 1

Specs on laptop:

Intel core i5 7th gen processor. 4GB RAM

I used a 64-bit Ubuntu Virtual Machine with 1024MB base memory.

Program used:

I used a bash script to run all my programs and output the time in their respective .txt files.

Results:

Assembly:

Total run time: 18.02 seconds

Average run time: 0.000720771 seconds

Minimum run time: 0.23 seconds

C++:

Total run time: 85.07 seconds

Average run time: 0.003403002 seconds

Minimum run time: 1.61 seconds

Java:

Total run time: 5405,66 seconds (yohhh)

Average run time: 0.216226319 seconds

Minimum run time: 82.34 seconds

Python:

Total run time: 576.569 seconds

Average run time: 0.023050759 seconds

Minimum run time: 9.77 seconds

Conclusion:

Looking at the results, the lower level languages ran the quickest. Assembler barely took a second while java and python went above 100 seconds.