Homework 1

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1. Phone: iPhone SE 2nd Generation
   1. Processors: 1

Cores: 6

* 1. Main memory: 3GB of LPDDR4X RAM
  2. GPU: Apple-designed quad-core
  3. FLOPS: 736 GFLOPS

Fastest machine: Yes, alongside the the iPhone 11 series in 2020

1. Computer A:

Computer B:

* 1. Computer B is faster for this program
  2. Computer A would now be faster



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # Processors | 1 | 2 | 4 | 8 | 16 |
| Speedup | 1 | 1.9 | 3.725 | 5.775 | 8.9 |
| Parallel Efficiency  (Speedup/Processors) | 1 | 0.95 | 0.93125 | 0.721875 | 0.55625 |

Chart, line chart

Description automatically generatedChart, line chart

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