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Computer Specifications:

- **Apple MacBook Pro**

- **The brand of CPU**: Apple

- **The model of CPU**: M2

- **The number of cores on CPU**: 8 Cores

- **The clock rate of CPU in GHz**: 3.23 GHz, 2.06 GHz

- **The amount of memory in GB**: 16 GB

- **The speed of memory**: LPDDR5

- **The capacity of hard drive**: 512GB

- **The type of hard drive**: SSD

- **For SSD, provide**:

    - **Max sequential read speed:** 2.8 GB/s

    - **Max sequential write speed:** 3.5 GB/s

    - **Max random read speed:** 1 GB/s

    - **Max random write speed:** 800MB/s

Result from Integer Benchmark

Result from Floating Benchmark

Result from Memory Benchmark

```
phinny@Phinehass—MBP-3 Benchmark % ./benchmark_3
Execution time for Hard drive operation one is 1.48845 seconds
```

Result from Hard drive Benchmark 1

```
Execution time for Hard drive operation two is 1.3581 seconds
```

Result from Hard drive Benchmark 2

Benchmark Type	Execution Time (secs)	Reference Time (secs)	Execution Time Ratio
Integer Benchmark	17.2607	100	5.794
Floating Point Benchmark	62.508	100	1.600
Memory Benchmark	29.311	100	3.412
Hard Drive Benchmark 1	1.488	250	168.011
Hard Drive Benchmark 2	1.358	10	7.364
Geometric Mean	8.289		

Geometric mean = sqrt_5(5.794*1.600*3.412*168.011*7.364)

$\qquad$ **= sqrt_5(39,134.428)**

$\qquad$ **= 8.289**