**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

```
donaldechefu@Donalds-MBP Benchmark_Project % ./Harddrive-benchmark2/harddrive_benchmark2
Hard Drive Benchmark 2 completed in 1.44225 seconds.
```

**Result from Hard drive Benchmark 2**

```
donaldechefu@Donalds-MBP Benchmark_Project % ./Floating-benchmark/floating_benchmark
64-bit Floating Point Operation Benchmark completed in 61.514 seconds.
```

**Result from Floating Benchmark**

```
donaldechefu@Donalds-MBP Benchmark_Project % ./Memory-benchmark/memory_benchmark
Memory Benchamrk completed in 23.6759 seconds.
```

**Result from Memory Benchmark**

```
donaldechefu@Donalds-MBP Benchmark_Project % ./Integer-benchmark/integer_benchmark
32-bit Integer Operation Benchmark completed in 17.3702 seconds.
```

**Result from Integer Benchmark**

```
● donaldechefu@Donalds-MBP Benchmark_Project % ./Harddrive-benchmark1/harddrive_benchmark1
  Hard drive Benchmark 1 completed in 1.64659 seconds.
```

## Result from Hard drive Benchmark 1

| Benchmark Type | Execution Time (secs) | Reference Time (secs) | Execution Time Ratio |
|---|---|---|---|
| Floating Point Benchmark | 61.514 | 100 | 1.626 |
| Hard Drive Benchmark 1 | 1.647 | 250 | 151.791 |
| Hard Drive Benchmark 2 | 1.422 | 10 | 7.032 |
| Integer Benchmark | 17.370 | 100 | 5.757 |
| Memory Benchmark | 23.676 | 100 | 4.224 |

**Geometric Mean = 8.415**