Benchmark Project Report

Computer Specifications

- 1. Brand of CPU (Intel or AMD) Intel
- 2. Model of CPU Dual-Core Intel Core i7
- 3. Number of cores on CPU 2
- 4. Clock rate of CPU in GHz 2.9 GHz
- 5. Amount of memory in GB 16 GB
- 6. Speed of memory 2133 MHz LPDDR3
- 7. Capacity of hard drive 500.28 GB
- 8. Type of hard drive SSD
- 9. SSD Specifications
 - i. Max sequential read speed 1539.5 MB/s
 - ii. Max sequential write speed 1353.2 MB/s
 - iii. Max random read speed 9.92 MB/s
 - iv. Max random write speed 10.74 MB/s

Screen Shots

32-bit Integer operation benchmark

```
[nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % g++ main.cpp benchmark.cpp
[nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % ./a.out
Integer Operation Benchmark Execution Time: 201.477 seconds
nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % ■
```

32-bit Floating Point operation benchmark

```
[nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % g++ main.cpp benchmark.cpp
[nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % ./a.out
Floating Point Operation Benchmark Execution Time: 383.028 seconds
nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % ■
```

Memory benchmark

```
[nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % g++ main.cpp benchmark.cpp [nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % ./a.out Memory Benchmark Execution Time: 37.5136 seconds nicolesullivan@Nicoles-MacBook-Pro corg_benchmark %
```

Hard drive benchmark

nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % g++ main.cpp benchmark.cpp |nicolesullivan@Nicoles-MacBook-Pro corg_benchmark % ./a.out |Hard Drive Benchmark Execution Time: 10.0479 seconds |nicolesullivan@Nicoles-MacBook-Pro corg_benchmark %

Results

Description	Execution Time (seconds)	Reference Time (seconds)	Ratio
32-bit Integer operation benchmark	201.477 seconds	100 seconds	0.5
32-bit Floating Point operation benchmark	383.028 seconds	500 seconds	1.3
Memory benchmark	37.5136 seconds	100 seconds	2.7
Hard drive benchmark	10.0479 seconds	1000 seconds	99.5
Total execution time	632.0665 seconds	-	•
Geometric mean	-	-	3.6

Number to Summarize Results: 3.6