

Benchmark Report

The brand of CPU: Apple

The model of CPU: Apple M2

The number of cores on CPU: 8 cores with 4 performance cores and 4 efficiency cores

The clock rate of CPU in GHz: 3.49 Ghz

The amount of memory in GB: 8 GB

The speed of memory: 128-bit memory bus with 100 GB/s for the M2

The capacity of hard drive: 256 GB

The type of hard drive: SSD

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: 800 MB/s

Screenshots:

```
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro Integer-benchmark % g++ integer-benchmark.o
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro Integer-benchmark % ./a.out
0 m 12.294 s
```

Integer Benchmark

```
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro floating-point-benchmark % g++ float-point-benchmark.o
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro floating-point-benchmark % ./a.out
0 m 12.305 s
```

Floating Point Benchmark

```
3 warnings generated.
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro memory-benchmark % g++ memory.o
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro memory-benchmark % ./a.out
0 m 23.64 s
```

Memory Benchmark

```
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro hard-drive1-benchmark % g++ hddrive1.o
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro hard-drive1-benchmark % ./a.out
0 m 2.417 s
```

Hard Drive 1 Benchmark

```
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro hard-drive2-benchmark % g++ hddrive2.o
● fiyinfo luwaafolayan@Fiyinfo luwas-MacBook-Pro hard-drive2-benchmark % ./a.out
0 m 4.452 s
```

Hard Drive 2 Benchmark

| Benchmark | Integer | Floating Point | Memory | Hard Drive 1 | Hard Drive 2 |
|-----------|----------|----------------|---------|--------------|--------------|
| Time | 12.294 s | 12.305 s | 23.64 s | 2.417 s | 4.452 s |

$$\text{Geometric Mean} = \sqrt[5]{\frac{12.294 \times 12.305 \times 23.64 \times 2.417 \times 4.452}{5}}$$