

Parallel & Distributed Computing

CSE525

Assignment **#3** - to be submitted to **Dr. Masroor Hussain**

**Benchmarking using Geekbench’s S/W on two different systems**

Submitted by,

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Benchmarking Report

# Use benchmark assigned in the class, run this benchmark, and submit a report

I ran Geekbench’s benchmarking software on two different systems. One was my own laptop, and the other one was the system allotted to us by dept. Detailed Benchmarking reports can be viewed on my online profile at [this link](https://browser.geekbench.com/user/quswarabid) [*https://browser.geekbench.com/user/quswarabid*] but a rather brief report is also presented in the following text.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Platform** | **Architecture** | **Single-core Score** | **Multi-core Score** |
| [Dell Inc. OptiPlex 7040](https://browser.geekbench.com/v5/cpu/1188338)  [Intel Core i7-6700 3392 MHz (4 cores)](https://browser.geekbench.com/v5/cpu/1188338) | Windows | X86-64 | 1092 | 4143 |
| [Dell Inc. Inspiron 3537 Intel Core i3-4010U 1695 MHz (2 cores)](https://browser.geekbench.com/v5/cpu/1188290) | Windows | X86-64 | 363 | 897 |

While given above are the brief benchmarks for the available CPU’s to me, following is provided a detailed benchmark and comparison not only for CPU’s score but also Computation with OpenCL API.

|  |  |  |
| --- | --- | --- |
| **Parameter** | [**Inspiron 3537**](https://browser.geekbench.com/v5/compute/511836) | [**Optiplex 7040**](https://browser.geekbench.com/v5/compute/511846) |
| OpenCL Score | 2761 | 5557 |
| Sobel | 3487 902.4 Mpixels/sec | 5326 1.38 Gpixels/sec |
| Canny | 1180 73.9 Mpixels/sec | 3499 219.0 Mpixels/sec |
| Stereo Matching | 6453 9.13 Gpixels/sec | 13431 19.0 Gpixels/sec |
| Histogram Equalization | 2943 519.2 Mpixels/sec | 4550 802.7 Mpixels/sec |
| Gaussian Blur | 2029 111.6 Mpixels/sec | 4402 242.0 Mpixels/sec |
| Depth of Field | 5306 61.5 Mpixels/sec | 9761 113.2 Mpixels/sec |
| Face Detection | 1757 13.5 images/sec | 3604 27.7 images/sec |
| Horizon Detection | 1888 46.5 Mpixels/sec | 5572 137.3 Mpixels/sec |
| Feature Matching | 1341 27.7 Mpixels/sec | 3025 62.6 Mpixels/sec |
| Particle Physics | 14220 378.8 FPS | 24887 662.9 FPS |
| SFFT | 1337 18.4 Gflops | 2108 29.0 Gflops |