Parallel & Distributed Computing
CSE525

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

Benchmarking using Geekbench's S/W on two different systems

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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*] 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 Intel Core i7-6700 3392 MHz (4 cores)	Windows	X86-64	1092	4143
Dell Inc. Inspiron 3537 Intel Core i3-4010U 1695 MHz (2 cores)	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	Optiplex 7040
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