Assignment 1 - Introduction to benchmarks

Document yourselves about any 2 software or hardware benchmark programs of choice, and write down (on paper) a brief description of their functionalities (what they test, how they test it, what results do they display):

1. **Novabench:**

Novabench has a variety of tests such as: CPU, GPU, Memory and Storage. There are 2 types of memory tests:

- Memory Transfer

This test measures the peak rate at which data can be transferred from the main memory to the CPU, which is an important factor in the performance of data-heavy applications.

- Memory Latency

This test measures the average time taken to access random locations in the main memory from the CPU, which is an important factor in the system's overall performance.

2. **Geekbench:**

GeekBench is a processor benchmarking program. Like other CPU benchmarks, GeekBench runs a series of tests on a processor and times how long the processor takes to complete the tasks. The quicker the CPU completes the tests, the higher the GeekBench score. GeekBench is multi-threaded, meaning it will stress all the cores simultaneously and report an aggregate for all the cores running in parallel, this makes it suitable for benchmarking servers. One of the things that differentiates GeekBench from other CPU benchmarks is that it produces consistent results across several different platforms including: Windows, Mac, Linux, Android, BlackBerry, and iPhone. Geekbench now also includes a single-core score.