

TASK A:

1. FLOPs/Byte is a measure of floating point operations per second, per byte of data. This measures the amount of operations that can be completed using a single Byte of data.

<https://whatistechtarget.com/definition/FLOPS-floating-point-operations-per-second>

2. The purple lines represent a measurement of Theoretical Max Bandwidth (Gb/s) for the L1 Cache which was 1867 GB/s and DRAM at 1102.9 GB/s. This is for the machine that ran the program.
3. The blue line represents a measurement of Theoretical Maximum Computation Rate (GFLOPs/s) at 337.7 GFLOPs/s. The line is flat because the value is a constant maximum roof value which values cannot surpass.
4. When you have the ratio of FLOPs/Byte and GFLOPs/s you are given the best raw, linear performance possible based on a given cache.

