

week-9

JX-Ma

2023/11/17

1 assignment

1. a one-core roofline plot for your computer using the docker image of amath583/ert;

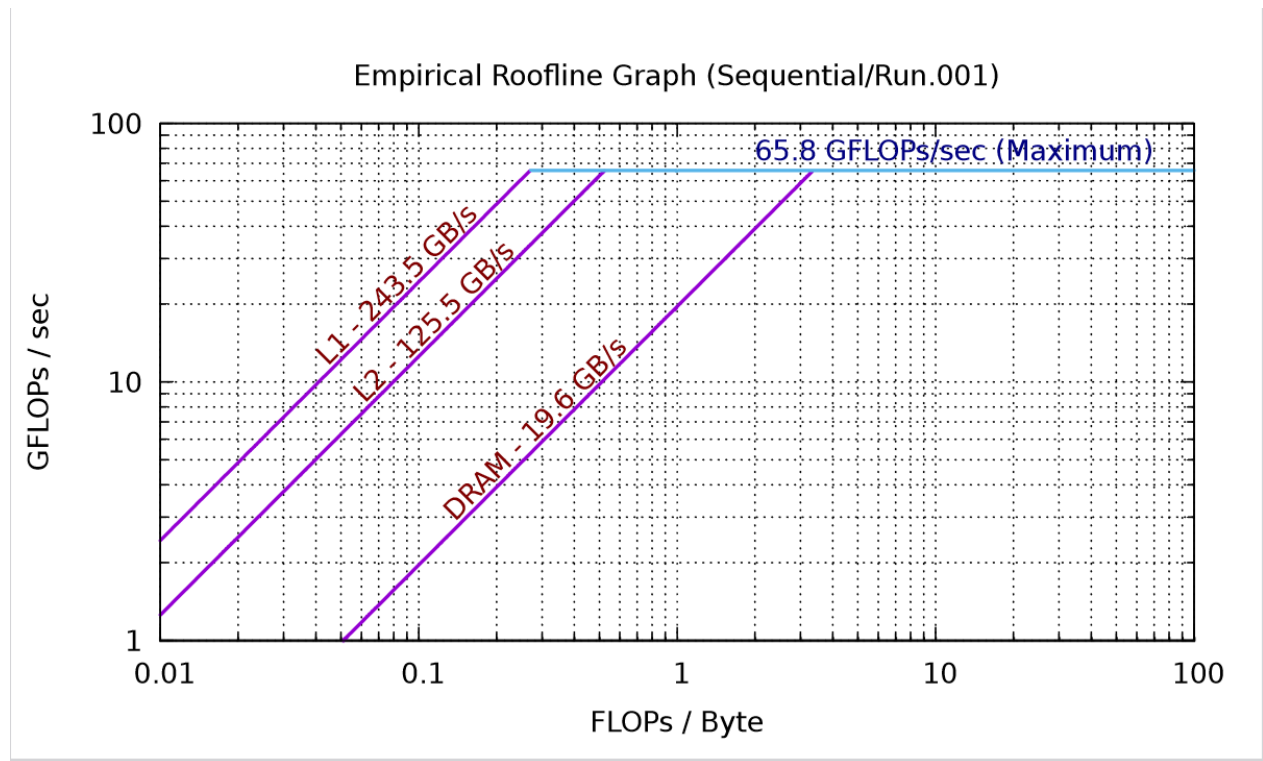


图 1: roofline using the docker image of amath583/ert

2. a bandwidth roofline plot for your computer using the docker image of amath583/bandwidth;

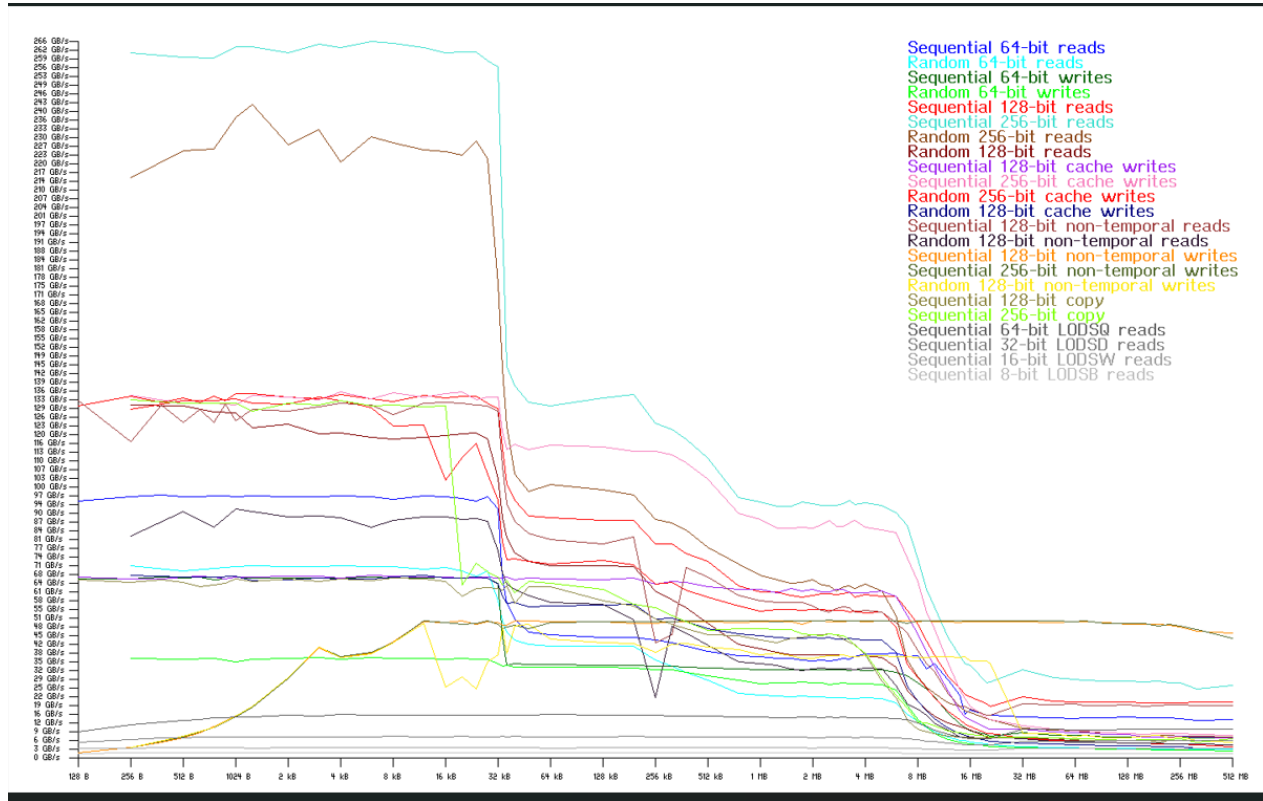


图 2: bandwidth using the docker image of amath583/bandwidth

3. a roofline plot without advanced CPU instructions (that might not be supported on all platforms) for your computer using the docker image of amath583/bandwidth.noavx

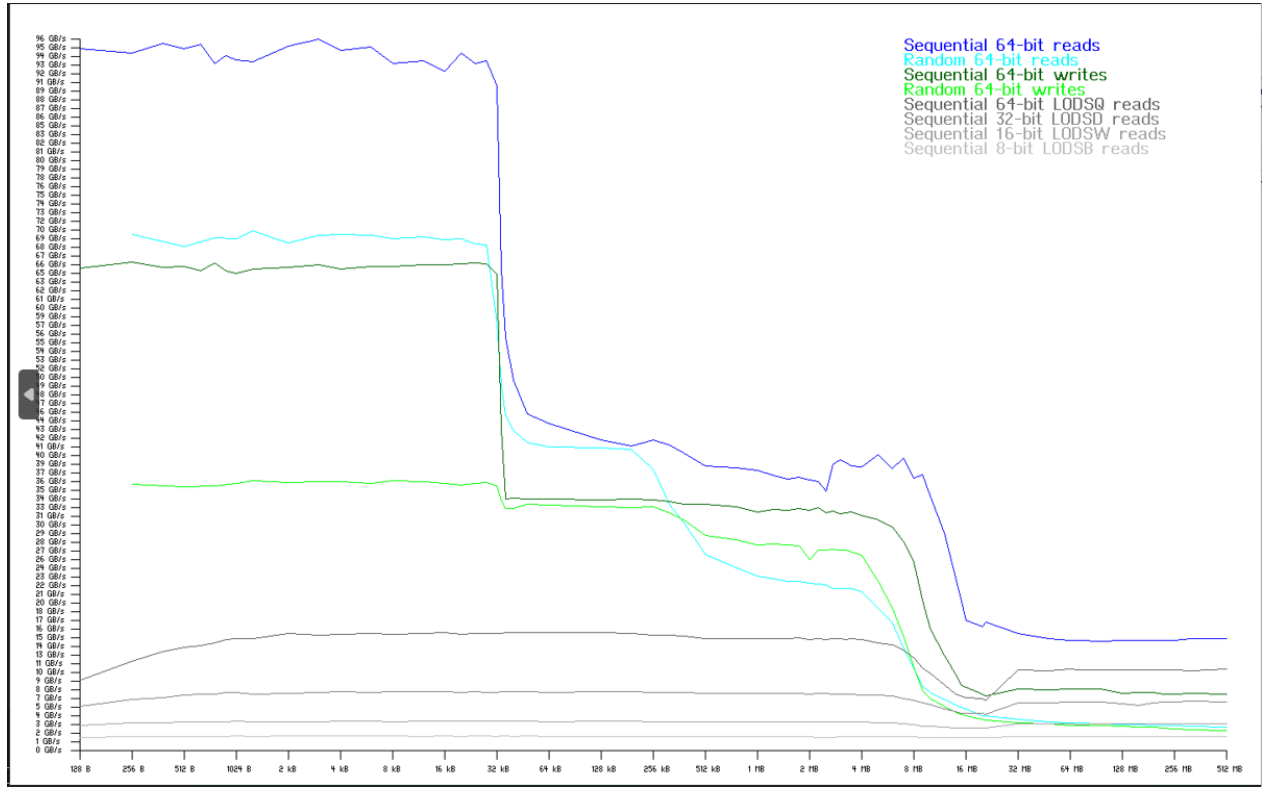


图 3: bandwidth using the docker image of amath583/bandwidth.noavx

4.a multiple-core roofline plot for your computer using the docker image of amath-583-ert.openmp

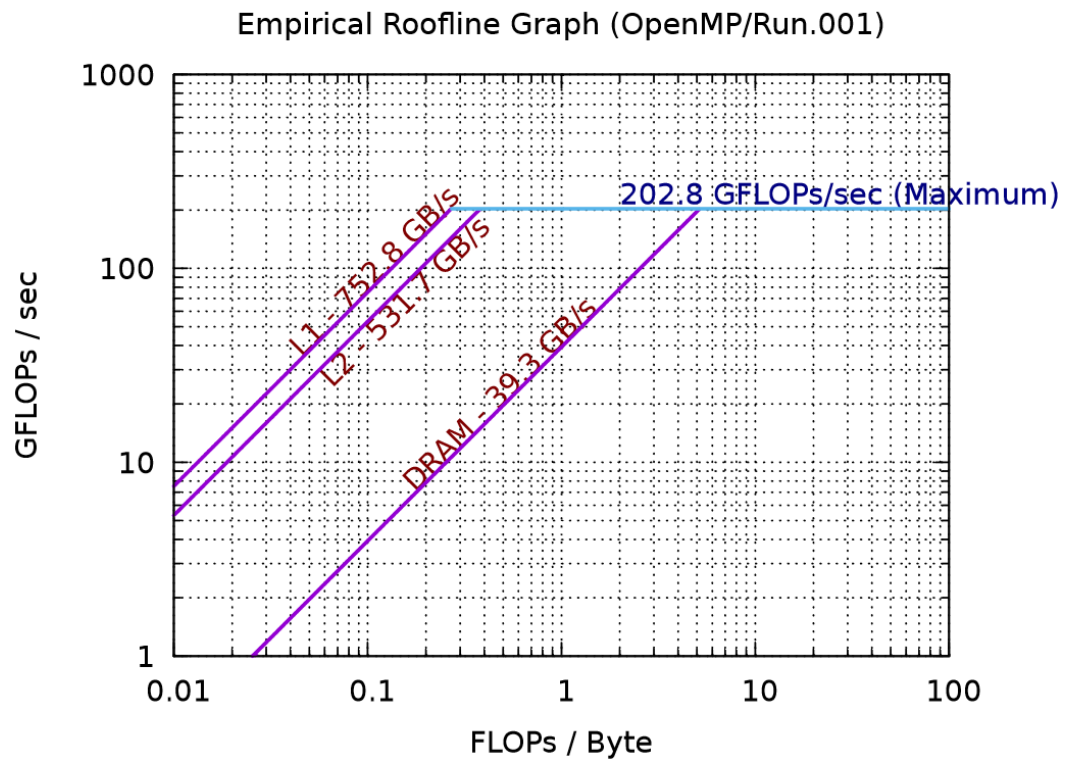


图 4: roofline using the docker image of amath-583-ert.openmp

5. a multiple-core roofline plot on your Ubuntu OS using the roofline toolkit at [urlhttps://github.com/emilioj/cs-roofline-toolkit/](https://github.com/emilioj/cs-roofline-toolkit/).

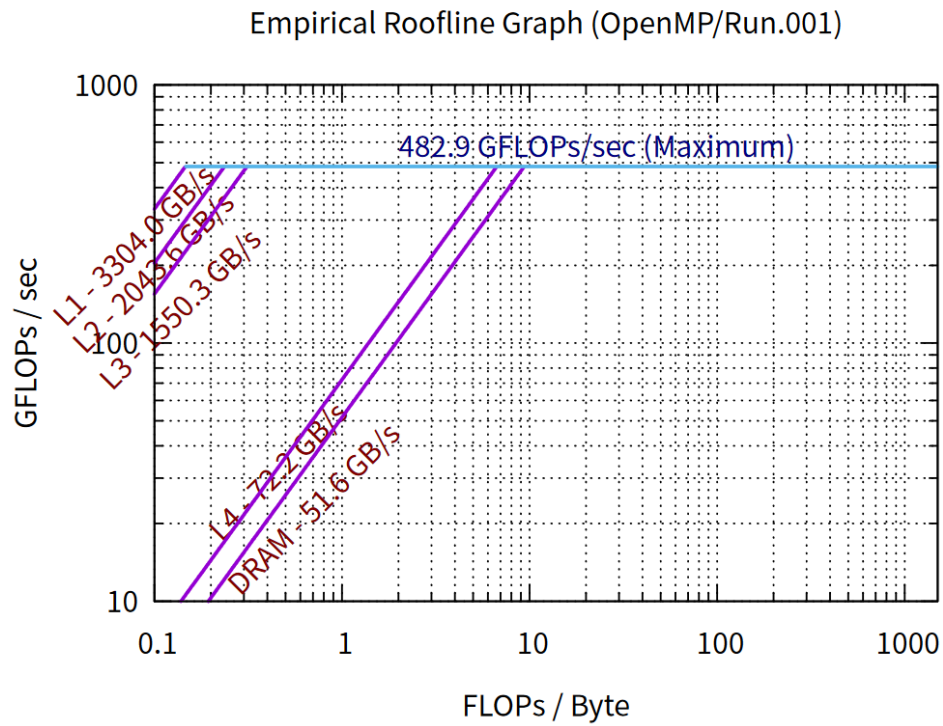


图 5: roofline on ubuntu