

OPTION A

Workloads:

- 1) CV – Performance analysis of Pytorch-based VGG/GoogleNet using the same GPU.
- 2) CV – Performance analysis of Pytorch-based VGG using different GPUs.

Datasets:

- 1) CIFAR-10.
- 2) CIFAR-10

Platform:

Discovery Cluster GPU nodes.

Experiments:

In the first experiment, I will compare the results of two well-known, neck and neck image classification models at CVPR, VGG and GoogleNet, running under the same GPU model, and analyze the similarities, differences and application intervals of these two models. The modeling will be modeled with reference to the original paper.

In the second experiment, I will focus on the VGG model and apply this model to two different models of GPUs to analyze the running results, the architectural similarities and differences between these two GPUs and the dominant interval.

Grade:

A = two workloads evaluated, all results reported and analyzed thoroughly in the project writeup.

A- = two workloads evaluated, all results reported, but little analysis of the data included in the project writeup.

B+ = one workload evaluated, and analyzed thoroughly in the project writeup.

B- = one workload evaluated, but little analysis of the data included in the project writeup.