Mid Project Report

Group Members:

Jory Anderson (jba@uvic.ca)

Justin Bao (justinbao@uvic.ca)

Parm Johal (parmj@uvic.ca)

Micheal Tom (mtom@uvic.ca)

Status:

Based off of the initial idea of the group's curiosity towards the IBM summit and the added suggestion from the instructor, the finalized report will entail an overview of the top supercomputer in the world, including its architecture, history, strengths, weaknesses, and overall analysis. One of the main parts analyzed will be how the system architects are able to cope with the amount of data and instruction flows using certain techniques which are efficient. The report will also include a similar procedure with other supercomputers from around the world. Each of these supercomputers will engage in a comparative analysis against the IBM Summit, showcasing their unique traits, but concluding as to why the Summit remains the superior supercomputer.

The progress on this report is running along smoothly and is right on track. The 3 Supercomputers being compared to the Summit are the Piz Daint, the Sunway TaihuLight, and the SuperMUC-NG, and notes for each one has been gathered. The first set of notes successfully gathered were for the Summit. The strategy here was to gather information on this so that upon researching other supercomputers, comparisons can be made for their respective analysis instantly and looked back on for further changes if need be. By the end of this week we will look to finish our write-ups for our supercomputers and start to intertwine them into a cohesive report.

Some of the problems that have been encountered are when researching the international supercomputers in depth. Some pages seem to have an excess amount of detail and seem go in depth on certain features of their respective supercomputer but are written in their native

language. Some pages have been successfully translated such as websites, but some articles have been unsuccessful. One strategy to overcome this is using an online translator, but the amount of text to translate has been tedious at times and some of the information gets lost due to poor readability.

Even with this issue, the information on each of these supercomputers seems sufficient enough to form a write-up.