Mock Student Cluster Competition Reproducibility Experiment

Dec. 4, 2018

Groups of 2-3 will answer questions

Building code

- Describe how you built the code. What issues arose?
- Explain whether you were able to reproduce its results?
- If you had more time, what optimizations do you think would be interesting?

Reproducibility Application

- Describe the computation that is being performed. What is it modeling? Summarize experiments. (See scc-p1.pdf)
- What was the experiment that was done for Utah's reproducibility experiment? Summarize results. (See scc-2.pdf)

Competition

- What are the parts of the SC18 Student Cluster Competition? How are points awarded?
- How should a team prepare for the competition?
- What aspects are you most interested in and why?

How to Run Reproducibility Experiment

- Download mockscc.tar.gz from Canvas (a gzipped tar file) and expand
  - gunzip mockscc.tar.gz; tar –xvf mockscc.tar
- Type “module load intel”
- Read reproducibility portion of scc-p1 paper to build and run
  - “your-machine” is kingspeak
- Now replicate scc-p2 for just the “Broadwell” portion
  - Mode is “mixed” (as in scc-p1 example), “single” or “double”
  - You will need to have an sbatch script to get meaningful measurements (can use script from cnn)