Super Computer and Python Review

Thought and prayer each class period

Thought – Doesn’t matter what you think you said, it matters what other people heard.

Also, how something is said is just as important as what is said.

Tuition is subsidized 70%.

Big data is characterized mainly by volume (and a few other V’s)

Can’t fit or process all the data on one machine.

Get account on super computer. Snell will make sure class is approved today.

There is some lag from being approved till being able to login.

\*Tomorrow’s hw – get account on super computer\*

Diagram 1.

Space sharing – get a chunk of the computers to use for a while

job gets sent to scheduler before being run

ssh.fsl.byu.edu is only for getting access to the headnode.

To access machines, need to create a slurm job.

Sandia Livermore user(?) Resource Manager

Program used to submit is sbatch.

Sbatch

knows how to launch a shell script

- describe job

- nodes

- time

- the information is actually all shellscript comments

- run command

>> sbatch myscript.slurm

Can use job script generator

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This week, login and run a simple job from commandline

Also, run it on the super computer

*on supercomputer, output is sent to a file*

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ssh ...@ssh.fsl.byu.edu

cd ~qos/hello (for playing arround with stuff)

cat hello.pbs // list file contents

sbatch hello.pbs // put job on scheduler

squeue -u … // lists job

watch squeue - … // watch status of jobs

ls \*jobnum\*

cat result from above to get output

head node has python (test programs and stuffs)

>> mlkdir hello

>> cd hello

>> cp ~qos/hello/\* .