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| Instructions |  |
| This week’s assignment is to create and run a sequential and parallel program on Hyalite then upload the scripts and results to D2L. You can use the prime calculator example or use a different algorithm of your choice. Following are the steps to run the prime calculator.   * Login to hyalite: ssh yourNetID@hyalite.msu.montana.edu * View the example python and sbatch scripts: ls $HOME/slurm-examples/class/ * Copy the examples to your home folder: cp $HOME/slurm-examples/class/\* $HOME * Edit the sequential.sbatch file to reference the python script in your home folder: “nano sequential.sbatch”, change the last line of each file from “python $HOME/slurm-examples/class/sequential.py” to “python $HOME/sequential.py”, press the control and “o” keys to save the file, press the control and “x” keys to exit nano * Edit the parallel.sbatch file to reference the python script in your home folder: “nano parallel.sbatch”, change the last line of each file from “python $HOME/slurm-examples/class/parallel.py” to “python $HOME/parallel.py”, press the control and “o” keys to save the file, press the control and “x” keys to exit nano * Run the sequential example: sbatch sequential.sbatch * Run the parallel example: sbatch parallel.sbatch * Check the status of your jobs: sacct * When your jobs have completed, you can see the output file names with the “ls” command and can view them on Hyalite with nano. * Transfer the .sbatch, .py, and .err files to your computer using scp or Globus (globus instructions follow)   + Go to <https://www.globus.org/>   + Disconnect from the MSU VPN (if connected)   + Select “Log In”, Select “Montana State University – Bozeman”, Login with your NetID and NetID password   + If you have not already setup Globus on your computer:     - Select “endpoints” on the left side of the page     - In the top right select “create personal endpoint”     - Follow the prompts to download, install, and sign-in to globus on your computer   + On the Globus website, select “file browser” at the top left   + In the top right, select the two-panel view   + In the left collection search bar, type “hyalite” and select “montana#hyalite”   + In the left path, type /home/YourNetID   + Click the right collection search bar, select “Your Collections”, then select the name you entered when setting up globus on your computer.   + In the right file browser, navigate to where you would like to  put the files on your computer   + In the left file browser, check the boxes next to the files you would like to transfer   + Click the blue “start” button below the left path. * Your files will now transfer to your computer form which you can upload them to D2L - if d2l will not accept the file types, you can change the file extensions to .txt * Bonus props if you find the flaw in my prime algorithm that can cause it to say 4 is a prime number! | |
| Due Date |  |
| Feb 17, 2022 11:59 PM | |