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| Instructions |  |
| For this homework assignment, run a sequential and parallel version of the bubblesort algorithm on Hyalite. Scripts for each (bubblesortpar.py  and bubblesortseq.py) are in $HOME/slurm-examples/class. You should modify the parallel version to run on 40 threads and both versions to run on larger arrays (1000 would be a good size). You will also need to create sbatch scripts for each run. You can adjust thread count and array size via the parameters at the top of each script. The sbatch scrips from last week can be used as templates for this assignment.  You will likely notice that the sequential version is actually faster than the parallel version in the current configuration. See if you can find some optimizations to speed up the parallel version, but don't spend too much time on this.  Finally, transfer (instructions in the most recent lecture slides) your .py, .sbatch, and .out files from Hyalite and upload them to D2L.  Alternate assignment: if you prefer, you can create your own program using shared memory instead of using the scripts I provided for bubblesort, uploading your scripts and results. | |
| Due Date |  |
| Feb 23, 2022 11:59 PM | |