Introduction to mini-app

How to compile and run the code on icsmaster

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Log-in to icsmaster with X-forwarding

- Log-in to icsmaster with X-forwarding
 - switch -X or -Y
 - You will need this for visualization of results
 - \$ ssh -Y icsmaster
- Load gcc and python modules
 - \$ module load gcc/6.1.0 python/2.7.12
- Update the git repository
 - \$ cd HPC_2019/
 - \$ git pull

Compile and run the code

- Go to mini-app directory
 - \$ cd HPC_2019/Mini-project4/miniapp_openmp/
- Use makefile to compile the code
 - \$ make
- Connect to compute node
 - \$ salloc
- Run the app on compute node
 - \$./main 128 128 100 0.01

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Visualize results

- The application generates two files with the final solution
 - output.bin
 - output.bov
- There is a Python script that converts these data files to png image
 - \$./plotting.py

Visualize results (t=0.01)

