



Linux and High Performance Computing Boot Camp

Agenda

sessions will be held in the Information Technology Center Room 171

Monday, July 18

9:00 am – noon | Introduction to Linux

using Linux terminal, useful commands, BASH scripting, customizing Linux environment, nonGUI text editing

Noon – 1:00 pm | Lunch Break*

1:00 pm – 2:30 pm | Mount Moran Environment

learn the basics of using Mount Moran including: logging in, job management, compilers, etc.

2:30 pm – 4:30 pm | Programming in C

writing C code, debugging, profiling, memory management, data structures program organization, loops, C libraries, compiling, running C programs

Tuesday, July 19

9:00 am – 10:00 am | Tour Mount Moran

tour the UWYO data center and learn about Mount Moran

10:00 am – noon | Parallel Programming in C

beginning MPI

Noon – 1:00 pm | Lunch Break*

1:00 pm – 4:30 pm | Parallel Programming in C

MPI Wrap-up, OpenMP, OpenACC, advanced job submission topics

Wednesday, July 20

9:00 am – 10:30 am | Data Transfer and Data Management

Data management topics and transfer utilities including: sftp, scp, rsync, CIFS mounts, Globus Online

10:30 am – noon | Open topics session and Discussion

catchup for those who need, discuss the workshop, and open question session

Noon – 1:00 pm | Lunch Break*

1:00 pm – 3:30 pm | Application Use case

Show us what you learned by going through an application process. This will include data transfer, compiling, and using Mount Moran

3:30 pm – 4:30 pm | Visualization Center Tour

Visit the Shell 3D Viz Center and get hands on experience with a variety of data. Increase your awareness and understanding of how data visualization can enhance your research and how immersive tech can be a valuable aid in the communication and dissemination of your work.

* Lunch will not be provided during the workshop. There are several places to eat within two blocks of the IT center including: Subway, Niko Sushi & Steak, 17 th Street Cafe, O'Dwyers, and the Union. If you venture a few blocks further, there are even more options.