

# Submitting Batch Jobs to the SCC

## Session 2

1/29/25

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# Getting Help

- › Research Computing Support (RCS)
  - › <http://rcs.bu.edu>
- › My Office - CAS 334G
  - › [milechin@bu.edu](mailto:milechin@bu.edu)
  - › [help@scc.bu.edu](mailto:help@scc.bu.edu)
- › Things to include in your request
  1. Job Number
  2. Screenshot of the error message
  3. Path on the SCC to the script you are running

# Outline

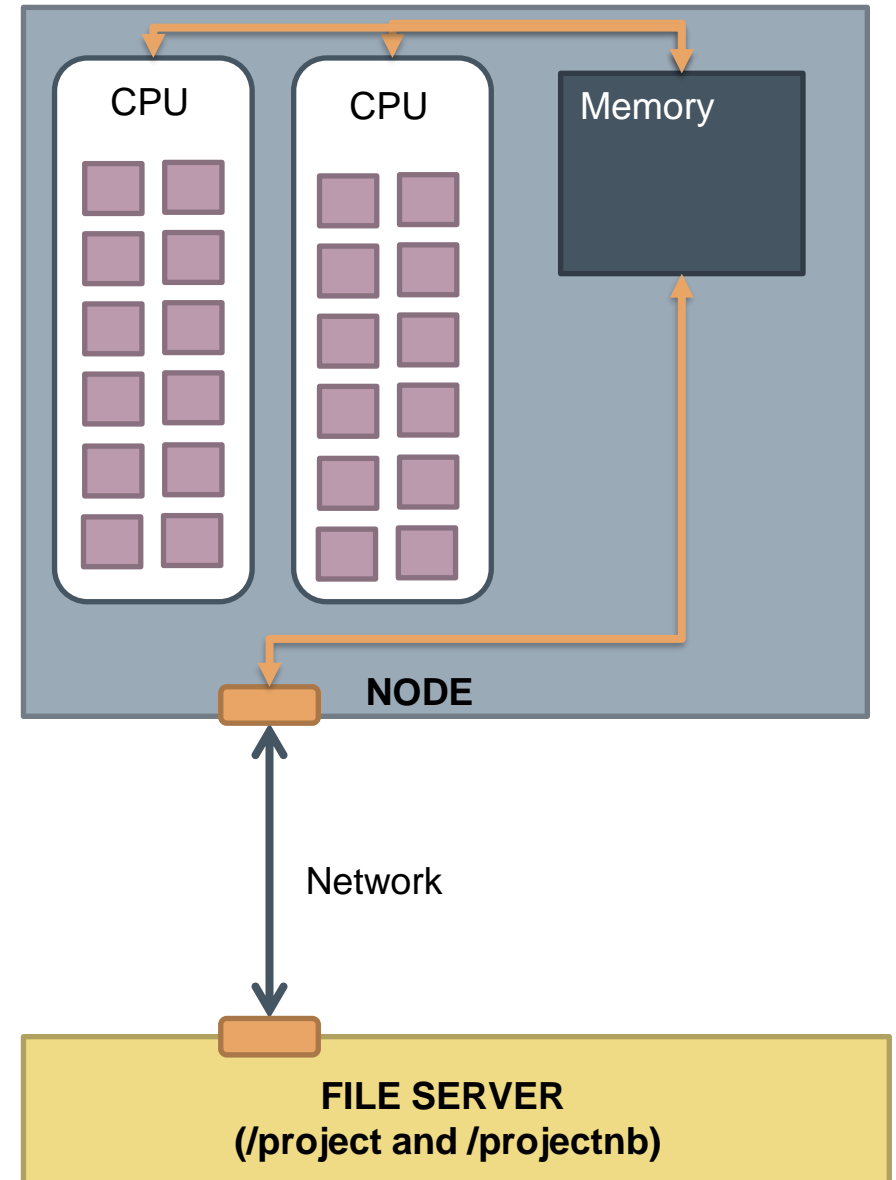
- › Session 1 (Last Week)
  - Overview of SCC
  - SCC Terminology and Architecture
  - Interactive Versus Batch Jobs
  - Create a qsub script and submit a batch job
  - SGE Directives
- › Session 2 (Today)
  - Answer questions
  - Selecting appropriate resources for your job

# Questions

# Questions about SCC Terminology and Architecture?

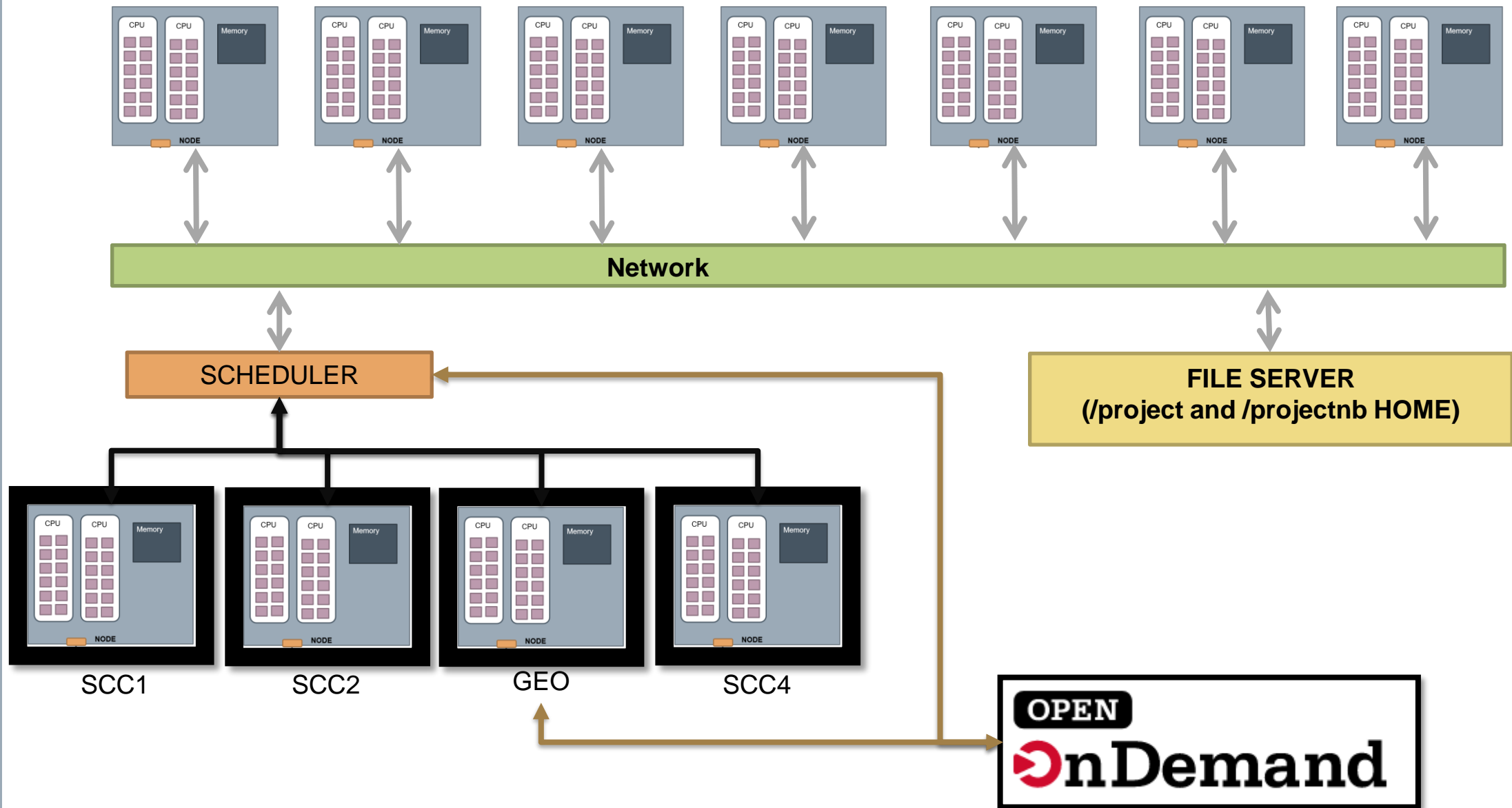
# SCC Terminology

- › **NODE** – One computer, may contain multiple CPUs
- › **CPU** – Central Processing Unit, the brain of the computer
- › **Cores (Slots)** – Workers available within the CPU.
- › **Memory** – Also known as RAM. Feeds the data to the CPU and receives computed data back.
- › **FILE SERVER** – Where all the project data is stored.



# Connecting to the SCC

**CLUSTER** – Collection of computers ( or compute nodes)



# Questions about Interactive versus Batch Jobs?



Questions about creating a simple batch script?

Let's get started with Session 2 topics.

GitHub Repo:

[https://github.com/milechin/ene\\_batch\\_jobs](https://github.com/milechin/ene_batch_jobs)