Getting Started with the SOM HPC Cluster (currently in development)

SOM is implementing a new HPC cluster with much greater capabilities compared to our existing research cluster. Currently, the HPC cluster consists of eight compute nodes, each running dual AMD EPYC 7702 processors (128 cores), 512 GB of RAM, and 3 NVIDIA Quadro RTX 8000 GPUs. Totals for the cluster include 1024 CPU Cores, 4 TB of RAM, and 24 GPUs.

Getting Access to the HPC Cluster

The HPC cluster is available to the SOM community. There is no cost associated with using the cluster. To receive an account, please email somit@yale.edu to create an account request, and a cluster administrator will create the account for you. They will also contact you with basic instructions for accessing the cluster.

Getting Support

Our Confluence documentation can provide answers for many questions regarding the HPC cluster, including connecting, Slurm basics, and batch scripting with Slurm. Central Yale's YCRC site is also a great source of information, and has a cluster set up similar to SOM's. You can also create a support request at somit@yale.edu if you are having issues with the cluster.

Connecting to the Cluster

Once your account has been created, please refer to the Connecting to the HPC cluster page for detailed instructions on connecting to the cluster via different operating systems.

Copying Data to and from the Cluster

Once connected to the cluster, please refer to the Transferring files page.

Applications and Software

To list the modules available on the HPC cluster, use the module avail command. This will list all of the modules installed on the HPC cluster. To get more information on using modules, please refer to our Software Modules section.

Further Support

Getting started with Slurm
Running batch scripts with Slurm
Software modules
Transferring files
Running GPU jobs
Requesting Compute Resources
Message Passing Interface (MPI)