

University of Minnesota
Center for Magnetic Resonance Research
Standard Operating Procedure

C122-01 - Compute servers at the CMRR

Where should I run my processes?

There are four types of compute resources at the CMRR. In general, there are:

- Group Servers
- Shared Servers
- Restricted Servers
- Magnet Servers

Group Servers

Group servers are usually restricted to one PI's group, and have been purchased with that group's grant funds. Your group may have file servers, compute servers, or both.

Check with your PI about where to run your processes, and if your group has one or more preferred compute servers to use. You should use your group's servers whenever possible.

Shared Servers

Shared servers are open to all users that need to run processing such as Matlab.

The shared servers are generally named "atlas" followed by a number. Some of these servers have GPUs (graphical processing units) on board for high-performance computing. Some of the servers named "atlas" are restricted.

There are also shared file servers named "range" followed by a number. These servers are generally not appropriate for running programs like Matlab. Use the "atlas" servers instead.

- atlas1 - has a small GPU
- atlas2 - has a small GPU
- atlas3 - has a small GPU
- atlas4 - has a small GPU
- atlas7
- atlas8

- atlas9 - has K80 GPUs
- atlas10
- atlas11
- atlas13

Restricted Servers

Restricted servers are reserved for a small group of users for a special purpose. Most of these servers usually have “gpu” in the name. Be sure to get permission before using these servers.

- gpu4sim1
- gpu4sim2
- gpu4ku
- gpu4gar
- atlas12

Magnet Servers

Some of the magnets have servers installed locally to service that magnet. You may have permission to log in, but don't use these servers unless you are at the magnet itself. These usually include “shim” in the computer name.

- shim7tas
- shim105t
- terra-shim

Please contact help@cmrr.umn.edu if you have any questions.