

Resource inventory for the first Multiflow summer workshop.

February 20, 2013

Dedicated hardware for the workshop.

- 3 servers for serial / multicore post processing.
 - Dual 6-core Intel Xeon Westmere.
 - 192 GB memory total.
 - 30 TB of internal RAID storage at 6 GB/s.

If you plan to run serial post processing jobs that require a moderated amount of space (<5TB per group), this is the suggested resource. All the accounts created in these three servers won't be deleted in the mid-term future unless it's requested, so you can log in remotely after the workshop.

Other resources.

- 48-node CPU cluster.
 - Dual 4-core Intel Xeon Harpertown (2008).
 - 2 GB/core.
 - PBS queue manager.
- 28-node CPU/GPGPU cluster.
 - Dual 6-core Intel Xeon Westmere (2011).
 - 2 GB/core.
 - 4 Fat/GPGPU nodes.
 - * 1 Nvidia Tesla 2070.
 - * 192 GB total.
 - PBS queue manager.
- 2 Post processing servers.
 - Fairly recent dual Xeon processors.
 - 192 GB memory.

All those computational resources mount the laboratory's storage pool, that has more capacity, but it's slower. In case you need to run parallel jobs, or more than 5TB of permanent storage per group, you can request an account. Bear in mind that these accounts may be deleted some time after the workshop.

Software resources.

All servers and clusters run a recent version of Scientific Linux, either 6.1 or 6.2 (<http://www.scientificlinux.org>). This distribution comes with a comprehensive collection of scientific libraries and tools, like C and Fortran compilers, FFTW, HDF5, GSL... If you need any library not included, we can install it upon request. Matlab is also accessible from all the servers.