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Outage affecting ALL NYC clusters and storage

From 8pm May 30 until 8pm May 31, 2014, all machines in the South Data Center - including all NYU HPC clusters except BuTinah, and including all HPC filesystems - will be shut down for repairs to the cooling systems in the data center. Please mark this in your calendar and plan compute work to allow for this outage.

New account management system

NYU HPC is the first group to use NYU’s new identity management system, IdentityIQ, for creating and renewing HPC accounts. Kinks in the system are still being ironed out - please contact us at hpc@nyu.edu if you experience difficulties getting or renewing your HPC account.

/work filesystem for HPC Stakeholders

Users who are part of an HPC Stakeholder group now have 500GB of non-flushed storage which can be accessed from the compute nodes of Bowery. Soon all users will have the same.

The new storage is mounted on /work/NetID on the login and compute nodes of Bowery. It is:

- not backed up
- not flushed
- visible to batch jobs running on the compute
nodes

- intended for storage, not job I/O

The HPC Wiki has updated information about storage on the NYU clusters under Managing Data and a page specifically about /work here. All users will be given a 500GB space under /work space will be rolled out and announced to all users soon.

Upcoming HPC refresh

During the first half of 2014 a new HPC cluster named Mercer will come online. Soon afterwards Bowery will be merged into Mercer and Union Square and Cardiac will be decommissioned.

We are in the process of installing a new cluster, to be named Mercer, with 3200 cores and 16TB of memory in 160 nodes. Mercer will be open to all NYU HPC users early in May. After two months, most of Bowery’s hardware will be merged into Mercer to form a single heterogeneous system with more than 5000 cores and 24TB memory. At this time Union Square and Cardiac will be decommissioned.

We strongly encourage all HPC users, especially those using Cardiac and Union Square, to migrate your workload Mercer as soon as it becomes available. Contact us for help with this.

Upcoming Lustre upgrade

The Lustre storage system underpinning /scratch will be upgraded during June/July 2014. For one week /scratch will be unavailable and there is a high probability that all files on /scratch will be lost.

At least four weeks before the Lustre upgrade, all users will have 500GB space on /work. Whilst we will endeavor to prevent files from being lost in the upgrade, we highly recommend that users prepare for the upgrade by copying files from /scratch to /work. One way you can do this is with rsync, as is described in the HPC Wiki.

We will keep you informed as /work becomes fully available and as the Lustre upgrade approaches.

Hadoop cluster

NYU HPC’s best-kept secret is a 100-node Hadoop cluster. This cluster is available for NYU researchers to use - contact us at hpc@nyu.edu for access.

The Hadoop cluster is nearing its end of life and we wish to gauge the interest level in ongoing Hadoop support with NYU HPC. The best way to indicate interest is to request an account and make use of the cluster!

XSEDE International Summer School 2014 on
HPC Challenges in Computational Sciences

Graduate students and postdoctoral scholars are encouraged to apply by March 9, 2014 for this expenses-paid program to be held June 1-6, 2014, in Budapest, Hungary. Leading American, Canadian, European and Japanese computational scientists and HPC technologists will offer instruction on a variety of topics, including:

- Access to EU, U.S., Japanese and Canadian HPC-infrastructures
- HPC challenges by discipline (e.g., bioinformatics, computer science, chemistry, and physics)
- HPC programming proficiencies
- Performance analysis & profiling
- Algorithmic approaches numerical libraries
- Data-intensive computing
- Scientific visualization

See http://www.prace-ri.eu/International-Summer-School-2014 for more information.

SC14 Student Cluster Competition

Supercomputing 2014, Nov 16-21 in New Orleans, is now accepting applications for the Student Cluster Competition, a high energy event featuring young supercomputing talent from around the world competing to build and operate powerful cluster computers. Applications are now being accepted and the deadline for team submissions is Friday, April 11, 2014.


Applications for the George Michael Memorial HPC Fellowship are now open

The George Michael Fellowship honors exceptional PhD students researching HPC applications, networking, storage or large-scale data analysis. The fellowship includes a $5000 honorarium and registration and travel to SC14 in New Orleans. Applications close May 1, 2014.


Wiki update and new user tutorials

The HPC Wiki is undergoing a major renovation, which will go live in the next few weeks. Alongside the update a series of HPC tutorials, initially aimed at new users, will commence.

Dates and details of the tutorials will be published on the updated Wiki front page. The existing HPC Wiki will also remain available for some time.

HPC Research Gallery and newsletter
Published something interesting? Tell us about it! We're updating the HPC research gallery and looking for stories of NYU HPC users' achievements. Email us at hpc@nyu.edu to showcase your work on the HPC Wiki.

New York University High Performance Computing - http://wikis.nyu.edu/display/NYUHPC