

Research Computing Advisory Committee

Minutes Jun 6, 2016 (taken by Erik Deumens)

Present: Because of rain many attended by phone. Paul Avery, Peter Barnes, Ana Conesa Erik Deumens, Rafa Munoz-Carpena, Richard Hennig, Lauren McIntyre, Alberto Riva

Updates

- HiPerGator 2.0 is now in full production and users are asked to migrate their data and work to the new platform.
 - o There is still 850 TB of data on /scratch/lfs that needs to be deleted if it is no longer needed or moved to /ufrc.
 - o All users have their login name synchronized with their GatorLink name, except 18.
 - o The Moab scheduler license expires June 30. Then SLURM will manage both HPG2 and HPG1.
 - o Users will no longer be allowed to run jobs on HPG1 after July 15.
 - o Some date after that /scratch/lfs will be reformatted and the new storage will be merged into /ufrc to give it the designed size of 3 PB.
- ResVault is in early user mode. A final security redesign is in progress. The Security evaluation and assessment to make it FISMA moderate NIST 800-53 and CUI NIST 800-171 compliant is in progress.
- The summary from the FLR-SSERCA Summit with strategic planning for the next 5 years resulted in a set of ideas, shown in the appendix to the minutes.
- All universities in the State have identified the need for cheap archival storage at a cost around \$25 per TB per year. FLR will take the lead in investigating building such infrastructure.
- With the expansion of systems to operate and maintain that occurred during this academic year, RC staff needs to focus on becoming more efficient. We added 30,000 core with HiPerGator 2.0, the FISMA complaint system ResShield and ResVault. Some effort will be directed towards more careful vetting of projects we take on and more detailed planning to ensure timely execution and implementation.

Discussion

The group discussed the outreach efforts towards K-12 that is listed as an FLR-SSERCA strategic effort. Several faculty are already in touch with high school students who then come work as summer interns. They believe a small group of interested and highly motivated teachers in Alachua County can be the core of a group to start such a program.

Regarding the increased load, it was suggested to compare the size of the systems at UF and number of cores per staff member with other institutions UF compares with to see if more staff is justified.

Organization

Next meeting will be on Monday July 18, 2016 at the usual location in NPB 2205 from 1:30 – 2:30 pm. July 4th is a holiday and Aug 1st is the SSERCA summit.

Appendix

Summary from the FLR-SSERCA Summit held in Tampa on May 2.

SSERCA Researchers Group

Raw notes from FLR & SSERCA Joint Retreat

May 2, 2016

Tampa, FL

Top 3-5 within the next 12 months:

1. Indoctrination session for institutional security personnel.
2. Identify infrastructure that sources and syncs.
3. Distributed normalized data share/catalog.
4. Move SSERCA WOS clusters to Science DMZ.
5. FLR/SSERCA joint birds of a feather on Science DMZ.
6. Joint FLR/SSERCA one-page “what we are” for campus researchers.
 - o Include non-technical research focus = Arts, Social Science, etc.

Top 3-5 within the next 3-5 years:

1. Simplified interface for Researchers to access network based services.
2. Better negotiation of contract terms (MATLAB).
 - o FLR Central Contract Agent.
3. Develop K-12 comprehensive plan for improving science and technology education and K-12/State Colleges.
4. “Smart Cities” integration w/Education (NSF funding).