

Research Computing Advisory Committee

Minutes Jan 25, 2020 (taken by Erik Deumens)

Present: Paul Avery, Nikolay Bliznyuk, Ana Conesa, Erik Deumens, Richard Hennig, Guillaume Labilloy, Lauren McIntyre, George Michailidis, Rafa Munoz-Carpena, Parisa Rashidi, Plato Smith, Douglas Spearot

Updates

- HiPerGator 3.0 phase I
 - o The system is running final stress testing (HPL = high-performance Linpack)
 - o It will be in production by Jan 31.
- HiPerGator AI
 - o The additional 1.6 MW of power is now available (dec 31, 2020) and goes through the new UPS (uninterruptable power supply) since Jan 15, 2021.
 - o The system is also running stress and validation tests to find failing hardware components and configuration errors.
 - o The first set of science calculations from the group of faculty who are part of the DGX pilot program since June 2020 will be run before Jan 31.
 - o The months of Feb through April will be early user access for HiPerGator AI. That means that maintenance activities and special tests may need to take over the system at short notice.
- Training
 - o Training materials will be developed together with NVIDIA as part of the Deep Learning Institute (DLI).
 - o A full training manu will be available on a new web page being developed.
- UFIT RC Staff
 - o Six new staff members have joined or are joining UFIT RC this month.
 - o One position for advanced Linux engineer is posted.

Discussion

- UF and Nvidia are engaged in a high-visibility project to demonstrate the power of the new system and contribute to advance the state-of-the-art in AI.
 - o The project is lead by Bill Hogan, Jiang Bian, and Yonghui Wu in HOBI (Health Outcomes and Biomedical Informatics).
 - o It will use the new BERT technology in natural language processing to create an AI for recognizing PHI in medical notes, based on work done by Wu and Bian, but at a much larger scale of an estimated 100 billion words.

Next meeting will be on February 15, 2021 from 1:00 – 1:50 pm. The meeting will be Zoom only. An invitation will be sent.