

Research Computing Advisory Committee

Minutes Apr 12, 2021 (taken by Erik Deumens)

Present: Paul Avery, S. Balachandar, Chris Barnes, Nikolay Bliznyuk, Anna Conesa, Susmita Datta, Erik Deumens, Richard Hennig, Bill Hogan, Guillaume Labilloy, Damon Lamb, Jenny Lo-Ciganic, Lauren McIntyre, George Michailidis, Rafa Munoz-Carpena, Parisa Rashidi, Alberto Riva, Erik Schmidt, Plato Smith, Doug Spearot, Jack Stenner, Laurie Taylor, Bruce Vogel

Updates

- HiPerGator 3.0
 - o Phase 2 was delivered in Apr 7 and is expected to be production around the end of May.
 - o Some maintenance cleanup on cabling is in progress for phase 1 is continuing; the cabling for phase 2 was done better by the manufacturer at our instigation.
 - o The HiPerGator 1.0 partition is no longer active and has been turned off.
 - o The total core count is now 60,000.
 - o Phase 2 will add 9,600.
- HiPerGator AI
 - o Early user access continues through April.
 - o We will produce benchmarks for top500, green500, io500, and MLPerf by end of April.
- HiPerGator RV
 - o RsVault will be rebranded to show that it runs on HiPerGator and is an integral, but more secure, part of it.
 - o ResVault is being migrated to new hardware of HiPerGator 3.0 in April.

Discussion

- GatorTron project
 - o One big science project is testing the whole machine on one natural language processing problem. This project created GatorTron a transformer NLP model. See the talk at GTC21 here “Gatortron Team: Gatortron - the Biggest Clinical Language Model” https://gtc21.event.nvidia.com/media/1_gk7im9ni
 - o Bill Hogan, on the committee, was part of the UF science team working on this project, which involved many people in UFIT, UFHealth, and NVIDIA.
- The UF administration has made HiPerGator and HiPerGator AI available to all universities in the State of Florida under the same conditions as UF faculty can use it:
 - o Free for teaching classes
 - o Subsidized rates for research, including graduate student research.

Next meeting will be on May 10, 2021 from 1:00 – 1:50 pm. The meeting will be Zoom only. An invitation will be sent.