

Information Science and Technology Center Open Forum on CSU High Performance Computing Capabilities and Needs

Wednesday, September 3, 2008

1:00 – 3:30 PM, LSC 214-216

Agenda

1. Introduction and ISTeC Overview (5 minutes) - Speaker: H.J. Siegel (ECE), Director of ISTeC
2. Background on CSU's HPC History and Activities (10 minutes) - Speaker: Pat Burns, VP for IT
 - a. History of the Cyber 205 and the Visualization Lab
 - b. CSU's current strategy: enable supercomputing via high-performance networking
 - c. NSF's current program in cyberinfrastructure: promotes campuswide approaches for institutionalization and sustainability (see: <http://www.nsf.gov/dir/index.jsp?org=OCI>)
 - d. Possible joint initiatives: regional Track 2, GECO, NSF's Expeditions in Computing (see: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503169) , emphasis on developing expert HPC consultants
 - e. Sharing HPC infrastructure
3. Findings from ISTeC's HPC Survey (20 minutes) - Speaker: Ricky Kwok (ECE), Co-Chair of ISTeC's Research Advisory Committee
4. Advanced Networking Capabilities at CSU (15 minutes) - Speaker: Scott Baily, Director of ACNS
 - a. Architecture, BiSON optical network
 - b. Traffic stats to NLR and I2
 - c. Funding model for networking at CSU
 - d. Strategic planning effort for networking for FY 09
5. Educational Activities in HPC (20 minutes) - Speakers: Sanjay Rajopadhye and Wim Bohm (Computer Science)
 - a. Computational science = CS + math algorithms + applications
 - b. Grad 510 and Grad 511
6. Plan for an ISTeC Visualization Facility (5 minutes) - Speaker: H.J. Siegel, Director of ISTeC
7. NERSC and the INCITE Program as a Viable Alternative (5 minutes) - Speaker: Josh Ladd (Mathematics)
8. Open Discussion – Faculty Needs and Directions (45 minutes) - Moderators: H.J. Siegel and Ricky Kwok
 - a. Potential enhancements to our HPC environment
 - b. Sharing clusters?
 - c. Sharing infrastructure (power, cooling, security)?
 - d. Campus-wide HPC platform?
 - e. Cycles from national labs?
 - f. local desktop grids
 - g. HPC consultancy?
9. Adjourn