University of Texas at El Paso

HiPCAT Institutional Update
June 2006

Resources & Services

• The Research and Academic Data Center has been officially opened on May 5, 2006. This event was attended by Dr Natalicio, the President of UTEP, the Deans of most of the Colleges, the Provost and many others.
• Andre Kerstens has installed the Torque scheduler on Sacagawea, UTEP’s 128 processor Scyld Linux cluster. The next step will be to integrate this with the Maui framework. Several projects have started to use the cluster for their computational needs.
• Sergio Zapata is in the process of installing the IBM LoadLeveler scheduler on the IBM p590.

Research & Development

• Michela Taufer and Andre Kerstens of UTEP and Alan Sill of TIGRE have started work on the integration of BOINC in the TIGRE framework.
• Michela Taufer of the CS department has been given the Outstanding Young Researcher Award by the Dean of the College of Engineering.
• Michela Taufer of CS and Ming-Ying Leung of the Bioinformatics Center at UTEP have received a $99,998 grant from ARP to start developing an adaptive grid computing system that, at runtime, identifies and exploits computer resources across the University of Texas at El Paso (UTEP) campus to predict secondary structures of large numbers of RNA segments using a variety of prediction programs.
• Pat Teller's student, Seelam Seetharami, was awarded his PhD on May 1, 2006. His thesis is titled ‘Towards dynamic adaptation of I/O scheduling in commodity operating systems’.
• Pat Teller’s student, Jayaraman Suresh Babu, was awarded his Master's on May 1, 2006. His thesis is titled ‘Coarse-grain dynamic adaptation for asynchronous I/O (writes) scheduling: is it needed?’
• Pat Teller was invited to the Conference on High-Speed Computing -- I/O and Data at the Grand Scale (The Salishan Conference), sponsored by Lawrence Livermore, Los Alamos, and Sandia National Laboratories, Glenden Beach, Oregon, April 24-27, 2006, where she talked in the Open Access session on Wednesday night about the DAiSES' I/O scheduling research.

Education & Outreach

• Paper accepted to the 3rd International Conference on Quantitative Evaluation of SysTemS (Qest ’06): Seetharami Seelam, Jayaraman Suresh Babu, and Patricia Teller:


• Sergio Zapata has a conference paper on analysis of cluster interconnection network topologies to be presented in the pdpta ’06 june 27th, las vegas.

• Visit at TTU in April of Michela Taufer and Andre Kerstens. Michela gave a talk on Predictor@Home while Andre gave a talk on UTEP’s high performance computing infrastructures and projects at UTEP. Both talks were very well received.