Resources & Services

• Top Gun, the IBM P4 p690 16-processor SMP system, moved into the new Academic Server Room in UTEP's IT department.
• Star, the new IBM P5 p590 24-processor SMP system, arrived at UTEP and will be installed in the new Academic Server Room (next to Top Gun). An IBM SUR grant brought to UTEP the base system; a Stars award to Pat Teller allowed this system, as well as Top Gun, to be enhanced. An event to celebrate this is being organized for the end of September.
• A new IBM P5 p550 4-processor, disk-rich SMP system arrived at UTEP and will be installed in the Academic Server Room.
• Luis Hernandez was appointed UTEP's HiPCAT representative from the IT-department.
• Phil Smith, HiPCAT director, officially appointed Andre Kerstens as HiPCAT secretary.
• The IT department approved a new position for a staff member who will coordinate and administer the equipment in the Academic Server Room.
• A dedicated copper Gigabit switch was installed in the Academic Server Room.
• A dedicated 100KVA UPS was purchased and is scheduled for installation in the Academic Server Room.
• NetBotz (http://www.netbotz.com/) is being reviewed for surveillance and environmental monitoring of the Academic Server Room.
• The Distributed Computing Lab in Electrical and Computer Engineering is beta testing ROCKS 4.0 software on Jaws, a small 16-processor P4 cluster. If the performance is acceptable and robust, ROCKS 4.0 will be loaded on Virgo, a 42-processor Xeon cluster, sometime in September.

Research & Development

• The paper entitled “Profiling Memory Subsystem Performance in an Advanced POWER Virtualization Environment” authored by Diana Villa, Mitesh Meswani and Pat Teller, was accepted for publication and presentation at the Workshop on Operating System Interference for High Performance Applications, which is being held in conjunction with the 14th International Conference on Parallel Architectures and Compilation Techniques, Saint Louis, Missouri. Diana and Mitesh are Ph.D. students working with Pat Teller.
• The paper entitled "Automatic I/O Scheduler Selection for Latency And Bandwidth Optimization" authored by Seetharami Seelam, Jayaraman Suresh and Pat Teller, also was accepted for publication and presentation at the Workshop on Operating System Interference for High Performance Applications. Seelam is a Ph.D. student and Jay is a Master's student working with Pat Teller.
• The paper entitled "Towards a Cross-Platform Microbenchmark Suite for Evaluating Hardware Performance Counter Data" authored by Roberto Araiza, Maria Gabriela Aguilera, Thientam Pham, and Pat Teller was accepted for publication at the Richard Tapia Celebration of Diversity in Computing Conference 2005 that takes place in Albuquerque, New Mexico from October 19 to 22, 2005.
• Richard Zamudio, a student of Michela Taufer, recently returned from San Diego Supercomputer Center where he spent the Summer working on the Topaz project, a
Mozilla Protocol extension for gridFTP. The successful internship of Richard solidified the collaboration between UTEP and SDSC. The project is continuing and the SDSC-UTEP team is now working on a demo and the first release of Topaz 1.0 for SC2005.

- Pat Teller has been elected finance chair for SC2006.

**Education & Outreach**

- Pat Teller, Michela Taufer and Andre Kerstens are organizing and preparing materials for UTEP’s attendance at SuperComputing 2005. UTEP is sharing a research exhibit booth together with New Mexico State University, New Mexico Tech and University of New Mexico: education and research along the Rio Grande.