Resources & Services
• Today, a new 64-node, 128-processor Linux cluster from Penguin Computing will be
delivered to UTEP’s academic server room. The nodes have dual (single-core) AMD
Opteron processors, 4 GB RAM, 160 GB disk space and are interconnected by a Gb
network. The cluster also contains a head node with a 3 TB storage array. The system will
be used for both research and education and has been paid for by funding from Drs Gates
and Kreinovich STAR Award (CS Department).
• The migration of users from Top Gun, the IBM p690, to Star, the IBM p590, is going
forward and expected to finish by the end of next week. Top Gun will be used exclusively
by Pat Teller’s research group in the future.
• The server infrastructure for Michela Taufer’s Global Computing project, DAPLDS, is in
place. It consists of a 4-way dual-core AMD Opteron compute server with 8 GB of RAM, a
2.5 TB storage array and a tape backup library capable of storing 4.8 TB compressed
data.

Research & Development
Brooks III: Metrics for Effective Resource Management in Global Computing
Environments. The paper will appear in the Proceedings of the 1st IEEE International
Melbourne, Australia.
• NSF grant (NSF, #0506429, SCI TESTBEDS, ($655626)) awarded to Drs. Taufer, Teller,
and Ceberio: DAPLDS - a Dynamically Adaptive Protein-Ligand Docking System based on
multi-scale modeling In collaboration with the group of Dr. Charles L. Brooks III at the
Scripps Research Institute (TSRI ) and David Anderson ( UC Berkeley Space Sciences
Laboratory).
• Visit of Dr. David Anderson (SSL, UC Berkeley, SETI@Home) and Dr. Felix Rauch
(NICTA, Australia) at UTEP.

Education & Outreach
• A very successful Matlab Computing seminar took place at UTEP last week. The seminar
also included a section on distributed computing with Matlab. It’s a fairly interesting
product, but at the moment only usable for very coarse-grained problems, because inter-
node communication is unsupported.
• 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. We have created a trifold which
shows the research ongoing at the 4 universities and a number of posters that give an
overview of UTEP’s computing research.
• Richard Zamudio has been selected as volunteer student for SC 2005. His trip to SC will
be supported by the conference.