

Welcome to the
Annual Users Meeting
TAMU Supercomputer Facility
May 1, 2008

Please Fill Out the
Meeting Questionnaire!

Faculty Steering Committee for Supercomputer Facility

- Responsibilities
 - Present views and needs of TAMU faculty and students involved in HPC
(fill out the meeting questionnaire!)
 - Accordingly set policies regarding Facility access and use
 - Review requests for “large research” allocations
 - Guide operations (broadly), make recommendations on new acquisitions
 - Advise Provost, through Associate Provost for IT, on issues concerning support and development of HPC at TAMU
- Membership
 - Lee Panetta (Committee Chair), Professor, Atmospheric Sciences
 - Guy Almes, Director, Academy for Advanced Telecommunications and Learning Technologies
 - Pierce Cantrell, VP and Associate Provost for IT, Elec. & Comp. Engineering
 - Tahir Cagin, Professor, Chemical Engineering
 - Michael Hall, Professor, Chemistry
 - Steve Johnson, Analyst, Institute for Scientific Computing
 - Pete Marchbanks, Director, Computing and Information Services
 - Paul Roschke, Professor, Civil Engineering
 - Lawrence Rauchwerger, Professor, Computer Science
 - Spiros Vellas, Assoc Director, Supercomputing Facility

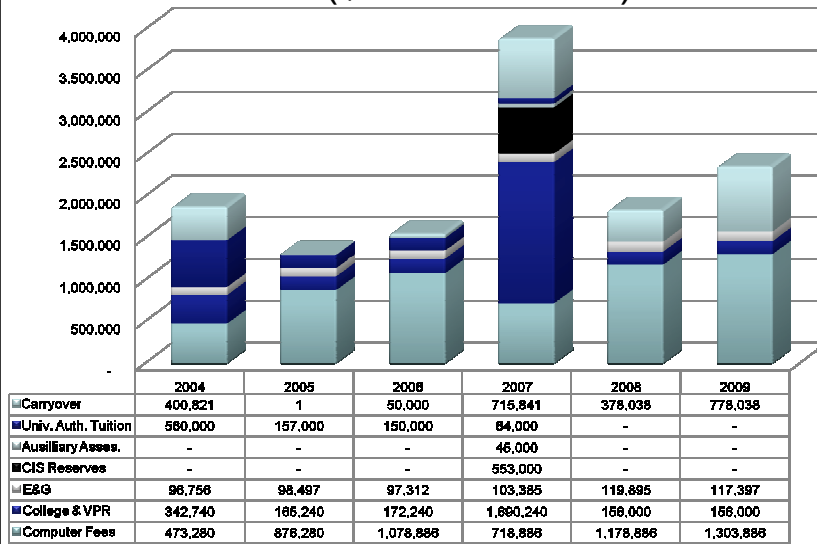
Important Issues

University Support of HPC
Partnerships
Faculty Involvement

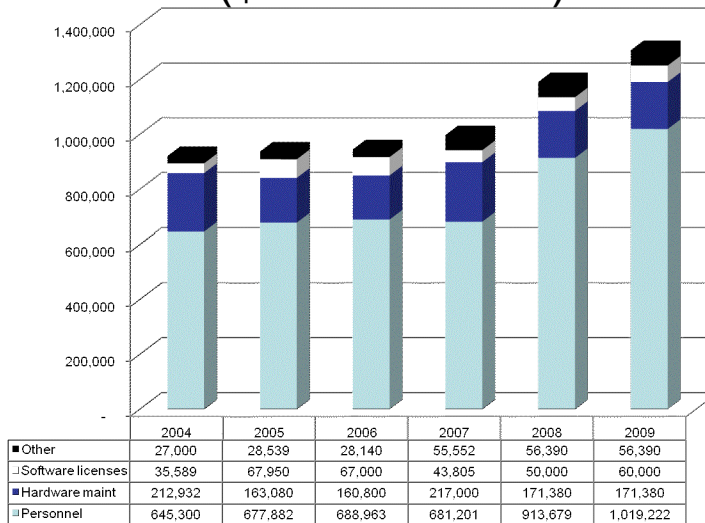
Issue 1: HPC Support

- Funding of infrastructure for HPC at TAMU is incommensurate with goals of
 - many faculty (especially with reinvestment additions)
 - Vision 2020
- TAMU \$1.5 M /yr, UT-Austin > \$7 M /yr
- **Deans are key:** they must be made aware of
 - current HPC needs of faculty in your department
 - your department's plans for expansion in computationally intensive directions
(recruitment!)

Total Funds Available (\$2.2 M in 2009)



Operating Expenses (\$1.3 M in 2009)



Important Issue 2: (Strength in Numbers)

- Partnerships can
 - Provide priority access to contributed nodes
 - Allow others to benefit from idle time
 - Result in maintenance and staff savings
 - Provide savings on AC
 - Raise profile of HPC at TAMU

Example: Hydra cost \$2.9 M (IBM p5-575+ cluster + DDN disk array + AC)

Partnership Contributions

- Inside CIS:
 - Supercomputer Facility Capital Fund \$750 K
 - Other CIS funds \$630 K
- Outside CIS
 - VPR's Office \$900 K
 - Computer Science Department \$410 K
 - College of Geosciences \$200 K

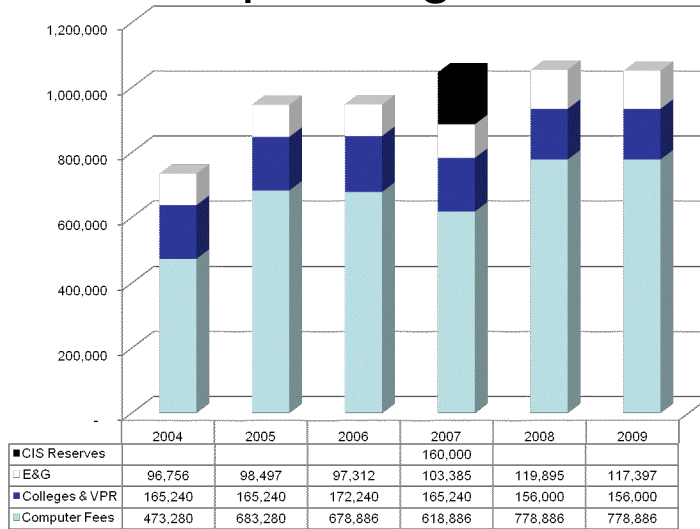
Issue 3: Faculty Participation on Steering Committee

We seek members actively involved in HPC aspects of

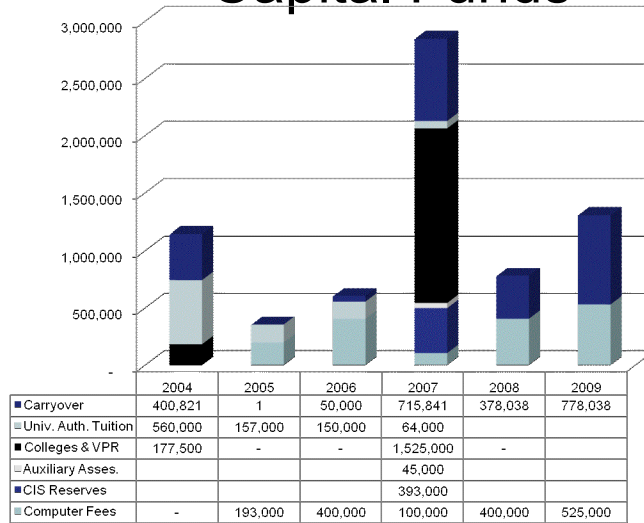
- Agriculture and Life Sciences
(Bioinformatics, Computational Biology, ...)
- Engineering
(Nuclear, Mechanical, Aero, ...)
- Science
(Physics, Astronomy, ...)

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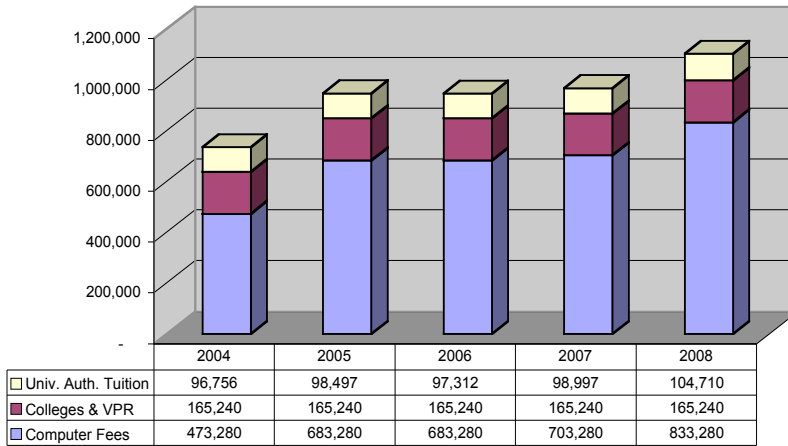
Operating Funds



Capital Funds



Operating Funds (\$1.03 M in '08)



Capital Funds (\$400 K in '08)

