

Supercomputing Facility Staff

- Associate Director
 - Spiros Vellas
- Analyst Staff
 - Michael Thomadakis
 - Keith Jackson
 - Francis Dang
 - Two to be hired
- TIGRE Staff
 - Ping Luo
 - Kim Taesung
- Administration
 - Greta Thomas
- Helpdesk Staff (GANTS)
 - Videsh Sadafar
 - Heeyeol Yu
 - Xiaoyan Zhao

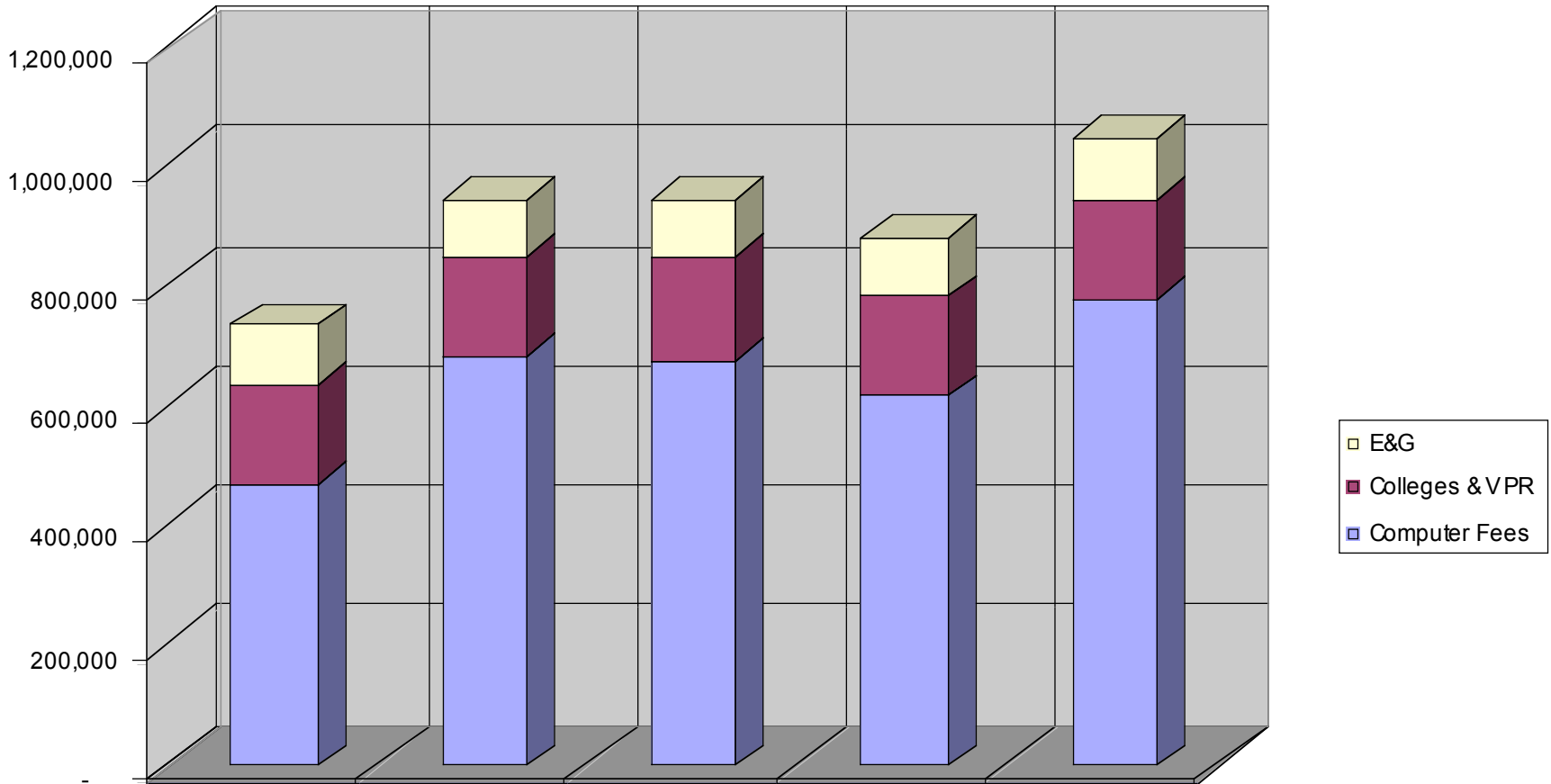
Supercomputing Services

- Short-courses
 - Each semester 2-4 courses are taught (subject to staff availability)
 - Spring 2007 courses
 - Intro to HYDRA (2 x 2 hrs)
 - Parallelization with MPI (3 x 2 hrs)
 - Other courses taught in the past
 - Intro to Shared Memory Parallelization Using OpenMP (3 x 2 hrs)
 - Intro to Scalar Code Optimization (3 x 2 hrs)
 - Computer Organization for Scientific Programmers (3 x 2 hrs)
 - Intro and Intermediate Unix (4 x 2 hrs)
 - Intro to SGI Altix (2 x 2 hrs)
 - Intro to IBM Regatta (2 x 2 hrs)
 - Matlab Graphics
 - Scientific Visualization Using Enight
 - Code Debugging and Common Errors

High Performance Computing Steering Committee

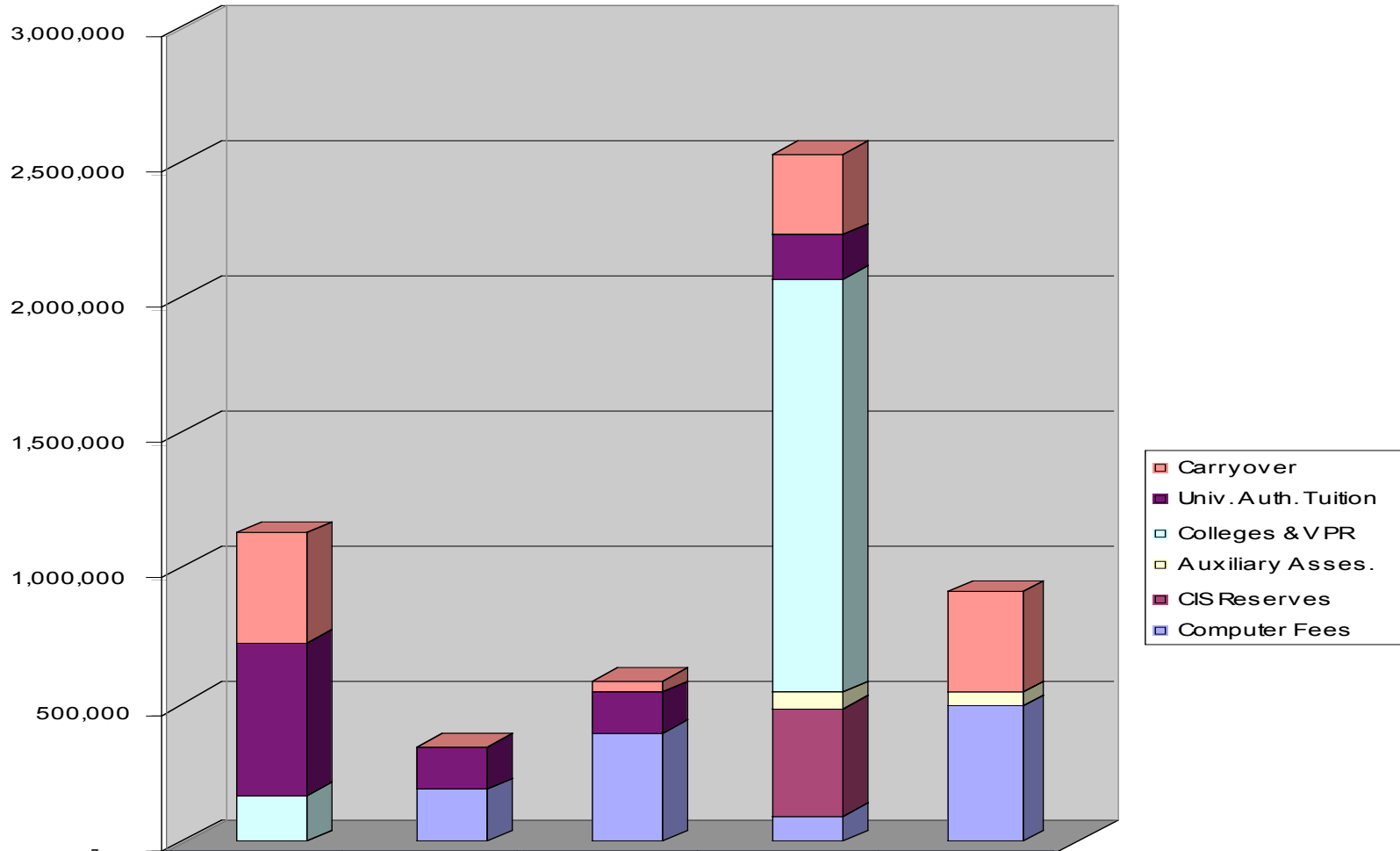
- Faculty Steering Committee
 - Sets policy
 - Reviews computer time requests for “large research” grants.
 - Makes recommendations on new hardware
 - “Advises Provost, through Assoc. Provost for IT, regarding the University’s plan and guidelines for High Performance Computing resources and their allocation, guidance and advice to the operational management of these resources, and the development of mechanisms for enhancing the HPC environment at Texas A&M University.”
- Membership
 - Lee Panetta, Chair, Atmospheric Sciences
 - Tahir Cagin, Chemical Engineering
 - Mike Hall, Chemistry
 - Dave Adelson, Animal Science
 - Paul Roschke, Civil Engineering
 - Lawrence Rauchwerger, Computer Science
 - Spiros Vellas, ex officio, Assoc Director CIS for Supercomputing
 - Steve Johnson, Institute for Scientific Computing
 - Tom Putnam, ex officio, Director CIS
 - Pierce Cantrell, ex officio, Assoc Provost & VP for IT

Operating Funds



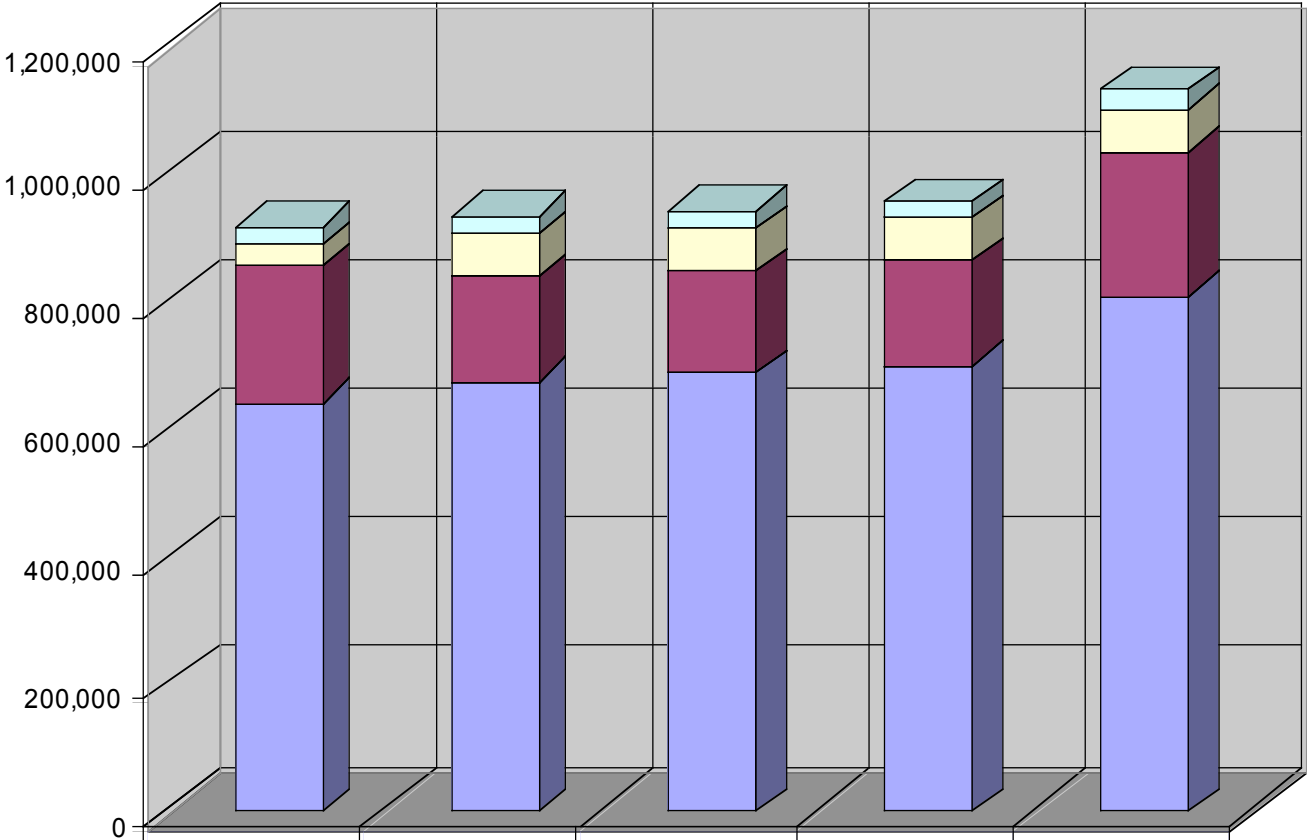
	2004	2005	2006	2007	2008
E&G	96,756	98,497	97,312	99,315	103,011
Colleges & VPR	165,240	165,240	172,240	165,240	165,240
Computer Fees	488,004	706,263	703,538	645,445	831,749

Capital Funds



	2004	2005	2006	2007	2008
Carryover	400,821	1	50,000	300,000	370,546
Univ. Auth. Tuition	560,000	157,000	150,000	164,788	
Colleges & VPR	177,500	-	-	1,525,000	-
Auxiliary Asses.				57,000	50,000
CIS Reserves				393,000	
Computer Fees					

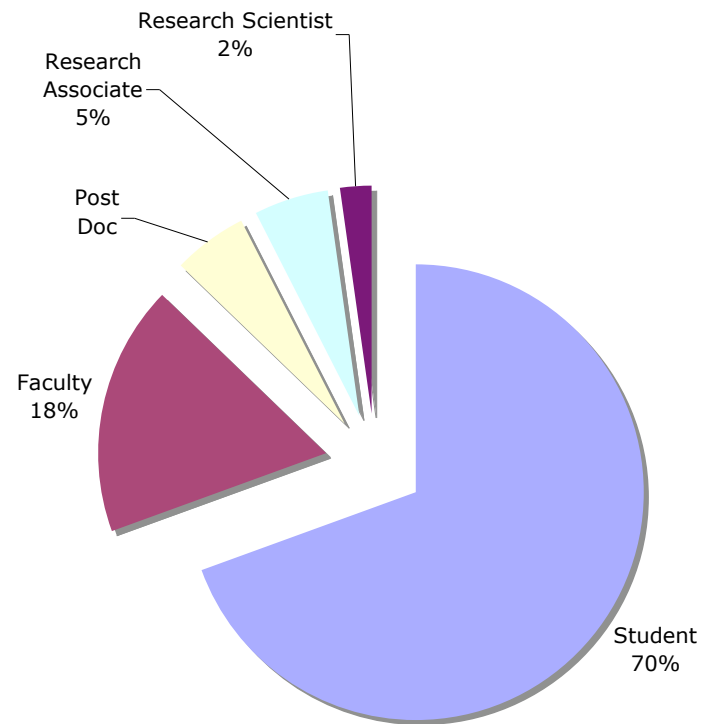
Operating Expenses



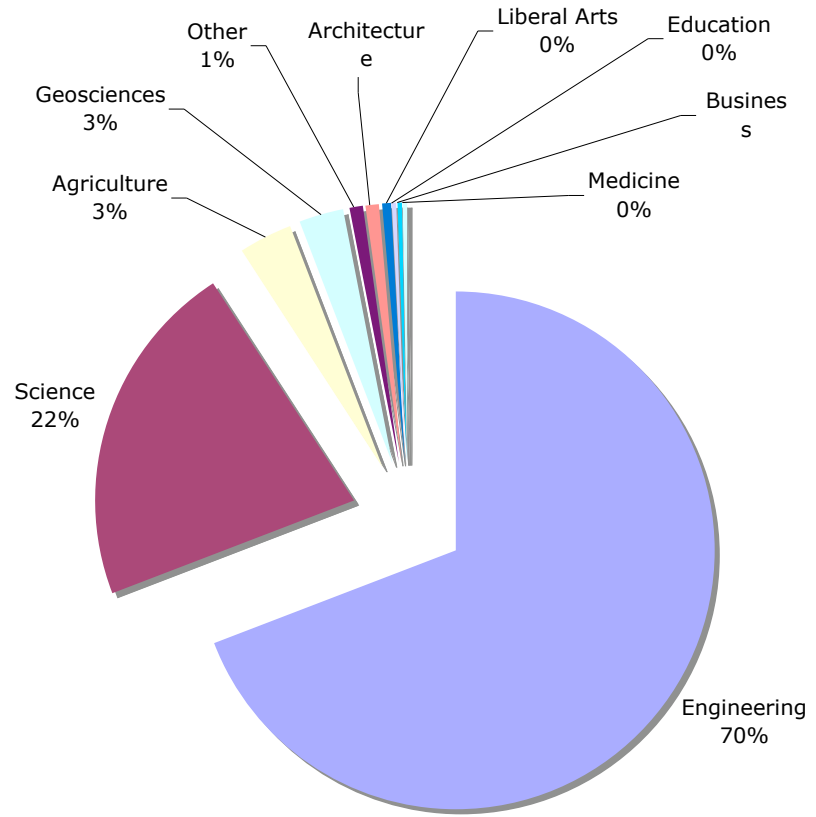
Other
Software licenses
Hardware maint
Personnel

	2004	2005	2006	2007	2008
Other	27,000	28,539	28,140	28,140	28,140
Software licenses	35,589	67,950	67,000	67,000	67,000
Hardware maint	212,932	163,080	160,800	160,800	227,800

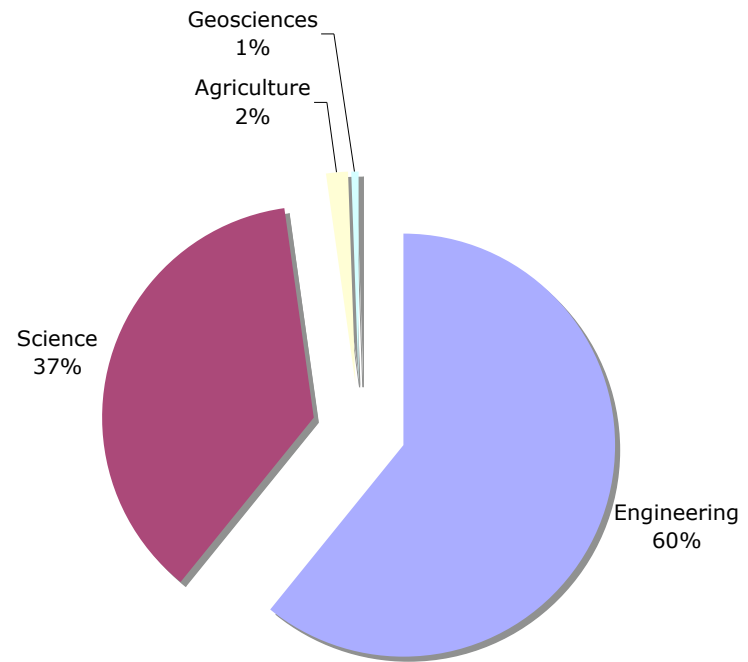
Users By Type

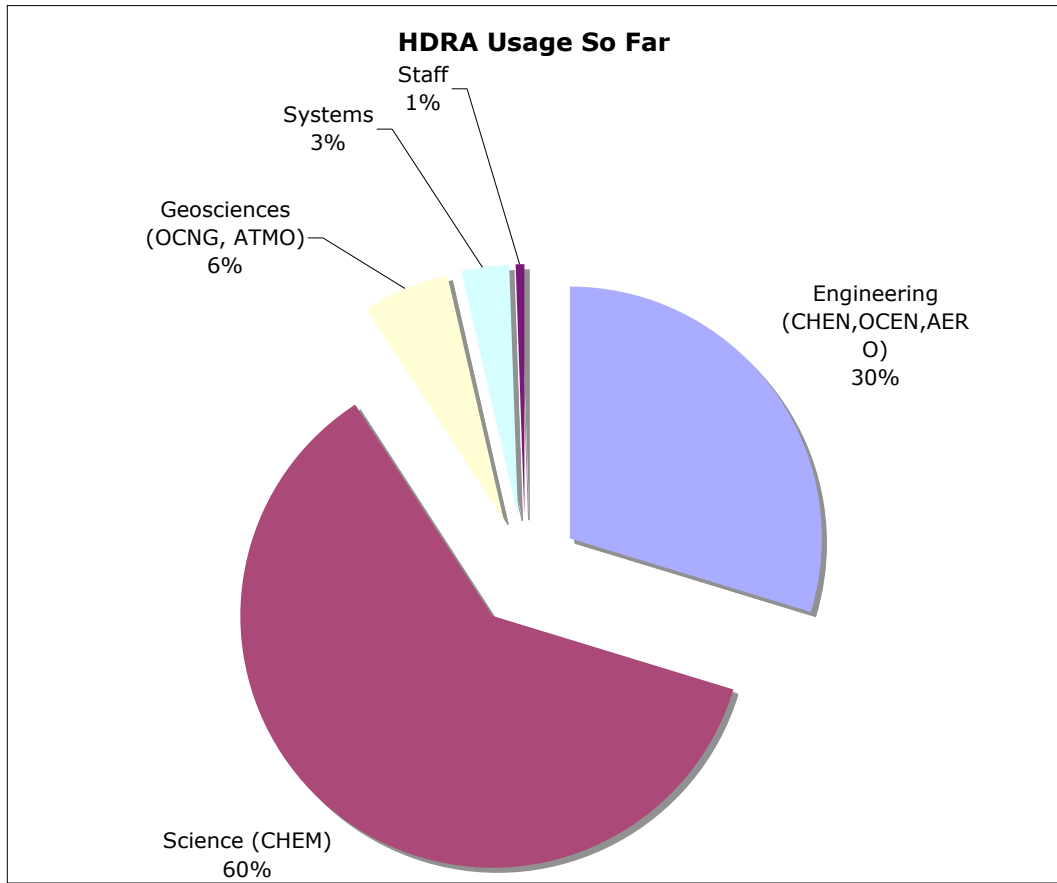


Number of Users By College



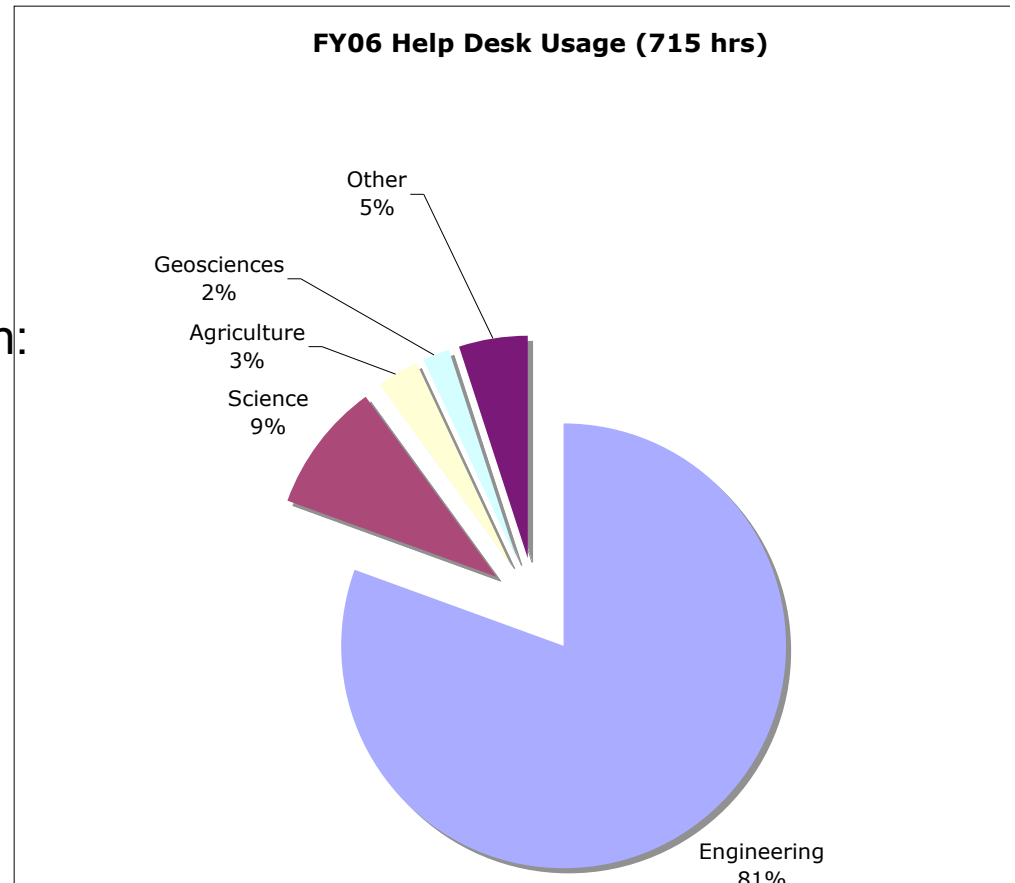
**FY 2006 Cpu Usage by College
(pre-HYDRA)**





- Helpdesk

- M-F, 9:00 am to 5:00 pm
- Staffed by three rotating GANT's
- All full-time staff also participate
- Services for users include help with:
 - code parallelization (MPI and OpenMP)
 - debugging
 - math library selection and call interfacing
 - script writing (especially for batch)
 - I/O and scalar code optimization
 - code porting
 - software installation
 - account activation/management



Supercomputing Systems: some issues

- Balance of usage:
 - highly parallel vs serial
 - **value** of “product” versus **tool** used
 - queue configuration
- **Shared** cpus and **priority** usage
- **Optimal** level of machine usage
- How to treat aging systems

Questions

- What features of current operations do you particularly like?
- What features of current operations do you particularly dislike?
(Specific suggestions for improvement will be useful!)
- In what directions (acquisitions or HPC activities) would you want to see the Supercomputer Facility move forward?
- Comments on short courses?
- Comments on web site?
- Other?