HiPCAT Attendees:
• James Abbott (TTU)
• Borries Demeler (UTSCSA)
• Nick Grishin (UTSW)
• Lennart Johnsson (UH)
• Andre Kerstens (UTEP)
• Chuck Koelbel (Rice)
• Josten Ma (UH)
• Jan Odegard (Rice)
• Lee Panetta (TAMU)
• Jerry Perez (TTU)
• Paul Roberts (UH)
• Phil Smith (TTU)
• Warren Smith (TACC)
• David Steffen (BCM)

• Introduction: Dr. Jim Patrick, BCM VP Office of Research – talked about Baylor's research, education and advanced genome sequencing center.
• Introduction: Jennifer Jarriel, BCM VP of Information Technology – talked about network connectivity to other institutes (Internet2 / OC3 / future OC12). Discussion regarding what services can be offered by IT to the different projects (TIGRE, LEARN) and how information flow and decision making can be improved in the several committees; many attendees think that good decisions can only be made when high-level people and technical people get together and think about systems/projects that make sense economically. Another discussion that came up was whether the fiber infrastructure that will be needed to ensure the success of future science projects can be funded by individual projects; the common consensus seems to be that the funding agencies will cooperate if you have the right justification (e.g., collaboration, high-level research).
• Institutional updates:
  ➢ Phil Smith (TTU) – TTU is implementing a campus-wide grid infrastructure using a product from Avaki Corp. (bought by Sybase recently).
  ➢ Jan Odegard, Chuck Koelbel (Rice) – No updates.
  ➢ Lennart Johnsson, Paul Roberts (UH) – UH is implementing a very-high-bandwidth fiber infrastructure for research and commodity use.
  ➢ David Steffen (BCM) – Baylor is moving many HPC resources into a newly built central data center.
  ➢ Andre Kerstens (UTEP) – Biggest challenge of moving HPC resources into the new academic server room at UTEP will be the 'people': many researchers like to have a 100% control over their systems and feel reluctant about moving their hardware into another building. Many other HiPCAT institutions experience this as well. What is the solution? Things that came up were: 1) Make the grass
greener in the central location: when people see that systems just work on the other side of the wall and hear this from their colleagues, they are less reluctant to stay behind. 2) Don't try to force people into moving, but show them the advantages (power, A/C and space). 3) Get in contact with researchers before they buy the systems or help them when they select equipment when they are writing their proposals (incl. the central data center).

➢ Warren Smith (TACC) – Walked us through the list already on paper.
➢ Nick Grishin (UTSW) – UTSW has a new facilitator person on campus who works closely with TACC.

• Talk of Borries Demeler (UTSCSA) – Potential new HiPCAT member.
• Presentation: Dr. Terry Lohrenz of BCM's Human Neuroimaging Laboratory – The lab images people's brains using functional MRI (fMRI). They are working on a true parallel matlab implementation of their algorithms (currently they are using their cluster in a way that distributes data of different experiments to separate nodes of the cluster). His opinion is that the software development process/time for distributed systems is the true bottleneck in his lab.
• Presentation: Dr. Stephen Ludtke of BCM's Center for Macromolecular Imaging – This lab is working on Cryo-Electron Microscopy and Dr. Ludtke showed us how they get from the raw microscope data to detailed 3D models of particles.
• David Steffen (BCM) brought up the issue of grid resources and difficulties. How easy (or difficult) is it currently for a one-man project to use a grid resource with a custom application? Examples were provided for Teragrid and the Open Science Grid projects.

• HiPCAT business:
  ➢ The HiPCAT website should be much better utilized than it currently is. Josten Ma is working on a new release of the site which uses the new version of the Zope/Plone framework.
  ➢ We should have subscription rules for the HiPCAT email lists. People are confused about which list is accessible by who and for what they are used.
  ➢ The minutes of the HiPCAT meetings should be published on the website.
  ➢ The question was raised as to whether commercial presentations should be allowed in the face-to-face meetings. The general consensus seems to be that this should not be allowed.
  ➢ Is the informal dinner the evening before the meeting a good idea? Again, the general consensus seems to be yes, but it should be kept as informal as possible.
  ➢ Should HiPCAT members look for more collaboration in projects together? Most people seem to think that common projects or proposals will come out of HiPCAT, but that this will mostly come down to interpersonal networking during the meetings. HiPCAT itself does not have a budget for such projects.
  ➢ The next face-to-face meeting will tentatively be held at UT Southwestern around mid-September. Nick will confirm this with his dean.
  ➢ Should there be a concerted HiPCAT effort during SC2005? Most institutions are going and have a booth and HiPCAT pamphlets, posters, flyers are a possibility. Should be discussed more during the next meeting.

• Tour of the Genome Sequencing Center of Baylor.
• Tour of the Human Neuroimaging Laboratory of Baylor.
• 3:30 pm: meeting adjourned.