Welcome to CBSE/BME

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Computing at CBSE/BME

- Computing systems available
  - Workstations (Linux, Mac, Windows)
    - Many workstations around PSB
    - General available SOE workstations in BE 308 and 315
  - Public servers
    - Compute servers and interactive servers
    - Login to sundance and look at message
  - Clusters (ROCKS)
- Networking available
  - Wired Static
  - Wired DHCP
  - Wireless

Accessing the Network

- How do I connect to the network?
    - You should have an SOE account by now
    - SOE wireless
        - Requires your name, MAC address and OS
        - Send a request to techstaff to add your machine
    - Wired connections
        - Only if it says DHCP
- How do I print?
    - Your printers are psbprint (should be default) and psb3color
    - Only print to color printer when you **need** color
    - They are located in PSB 309
    - See SOE FAQ to set up printing from your laptop

Filesystems/Storage

- **Where do I put my files?**
  - Technologies in use: RAID and NFS servers
  - Home directories
  - /projects/compbiousr
  - /projects/sysbio
  - /projects/lowelab
  - /projects/paro
- **Are things backed up?**
  - Data is rsync'd and backed up to hard disk; Only for a couple of months
  - SOE Home directories – Yes, but very little space
  - Network filesystems – Some
  - The bigger the space, the less frequent the backups
  - When in doubt, DIY

Online Documentation

- Is there documentation online?
  - Just go to www.soe.ucsc.edu and look around. You will find:
  - http://www.soe.ucsc.edu/administration/computing-support
  - https://twiki.soe.ucsc.edu/twiki/bin/view/SOEFAQ/WebHome

Clusters

- SOEcluster – 4 years old
  - 15 nodes, 2.6 GHz P4, 2 GB RAM
- BMEcluster - 3 years old
  - 25 nodes, Dual Processor 1.8 GHz AMD, 2 GB RAM
- Swarm - 0 years old
  - 256 nodes, Quad core 2 GHz Intel, 8 GB RAM
- Pita cluster - 4 years old
  - 198 nodes, Dual Processor 2 GHz AMD, 4 GB RAM
- Memk – 1 year old
  - 8 nodes, Dual dual core 1GHz AMD, 32 GB RAM

Using the Clusters

- How do I get access to the cluster(s)?
  - Requested by professor.
  - Briefing on usage
- How do I use the cluster(s)?
  - Account has to be created for some. Others have open access.
- Parasol

  http://hgwdev.cse.ucsc.edu/eng/parasol.html

  Appropriate usage

Requesting Tech-Support

- Who do I talk to if I run into problems?
    - Use itrequest (itrequest.ucsc.edu)
    - Go to SOE computing support desk (Baskin Engineering 311)

Mailing Lists

- Mailing Lists
  - compbio@soe.ucsc.edu - General BME Faculty and students. To subscribe, go to:
    - http://www.soe.ucsc.edu/mailman/listinfo/compbio
  - Talk to your Lab Faculty to get on their own list

Network Proper Usage

- Proper usage
  - Do NOT plug/unplug any network devices into any port other than DHCP without alerting techstaff
  - No sharing of passwords.
  - No P2P software.
  - No distributing copyrighted materials at all.
  - Installing network daemons (including web servers, mail servers, P2P applications like eMule, BitTorrent, database servers with network listeners, etc) REQUIRES faculty advisor approval and 1 business day notification to techstaff
  - Do not bring in SOHO routers to SOE networks.

Advantages of being a student

- Freebies
  - SOE has an MSDN-AA partnership and any SOE grad can have free copies of Microsoft Windows XP and Windows Vista (as well as many other Microsoft packages – most of their software aside from Office) for their personal use. They can get an account by submitting an IT request

- Apple discounts
  - Check out the bookstore from time to time for special deals from Apple