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://hgwd.dev.cse.ucsc.edu/eng/parasol.html](http://hgwd.dev.cse.ucsc.edu/eng/parasol.html)
  Appropriate usage
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](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.