Assignment 1

- Administration
  - Linux Servers
    - **alpha.eecs.uci.edu** (NSF client)
    - **gamma.eecs.uci.edu** (NSF client)
    - **mu.eecs.uci.edu** (NSF host)
    - Intel Pentium based PCs
    - RedHat Linux (Fedora Core 12)
    - Access via secure shell protocol (**ssh**)
  - Accounts
    - User ID same as your UCI net ID
    - Password as discussed in class
  - SpecC Software (© by CECS, UCI)
    - SpecC Compiler and Simulator
    - System-on-Chip Environment (SCE)

Assignment 1

- Login on Server via SSH
  - Account infos will be emailed
- Install MP3 Decoder example
  - **mkdir eecs222c**
  - **cd eecs222c**
  - **gtar xvzf /home/doemer/EECS222C/mad_C.tar.gz**
  - **cd mad_C**
  - **make clean**
  - **make**
  - **make test**
- Become familiar with the application and its structure
  - Browse and read the source files
  - Draw a block diagram of the major functions

Assignment 1

- Analyze the given MP3 Decoder application
- Example questions to investigate:
  - Example MP3 streams
    - Do they play?
    - Length in seconds?
    - Number of samples?
  - Application source code
    - How many source files?
    - How many lines of code?
    - How many functions?
  - What are the major functions?
    - How do they relate?
    - Function call graph?
  - What are the most critical functions?
    - Where is the most time spent?
  - What type of operations are performed?
    - Floating point?
    - Others?
  - Where is any potential for parallel execution?