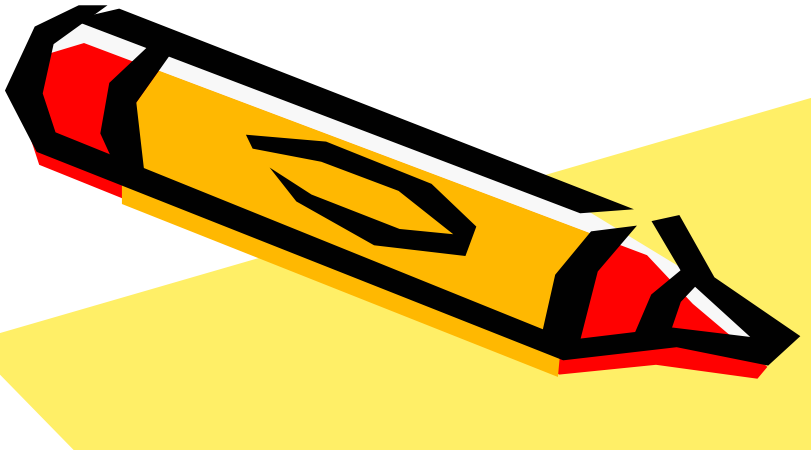
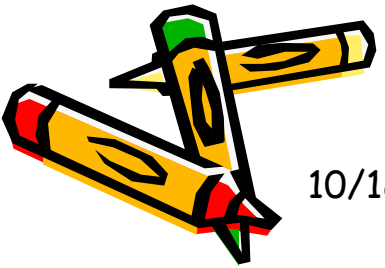


Grids in Use

B. Ramamurthy

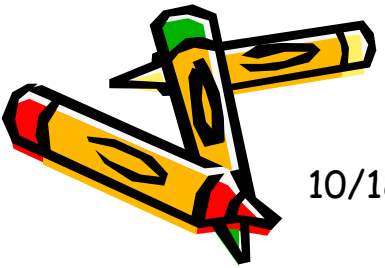
Genre 0

- Seti@home : search for extra terrestrial intelligence: http://planetary.org/html/UPDATES/seti/index.html
  - The Wow signal http://planetary.org/html/UPDATES/seti/SETI@home/wowsignal.html
- Protein Folding : **Proteins** are biology's workhorses -- its "**nanomachines**." Before proteins can carry out their biochemical function, they remarkably assemble themselves, or "**fold**."
  - http://folding.stanford.edu/
- Climate prediction: http://climateprediction.net/index.php



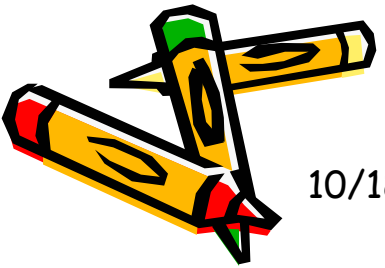
Genre 1

- Condor Grid in operation was last week's demo (10/11)



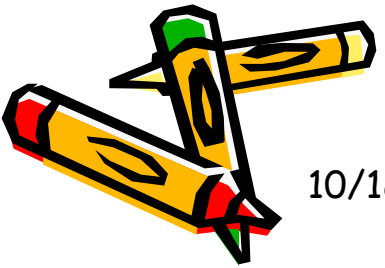
Genre 2

- Globus grid: CSELinux grid
- Linux Operating system
- Limitation: Not connected external grids
- We will look at a demo of this next Monday (10/25)



Genre 3

- Tera grid: www.teragrid.org
- http://www.teragrid.org/about/TeraGrid-Primer-Sept-02.pdf
- For solving large scale problems
- Making use of extensive "collections" of information and expertise generated by the Internet.
  - Example: National Science Digital Library (NSDL) ; http://www.nsdl.org
- State of the art microscope "resource": http://bugscope.beckman.uiuc.edu/
- Mega data bases with huge "data sets": National Center for Biotechnology Information (NCBI): http://www.ncbi.nlm.nih.gov/
  - Look at the top line menu of databases, esp. Entrez and Blast



Genre 4

- Service-Oriented Grids (SOG)
- View all the resources and functions as services.
- Build application models around services.
- Anatomy of the grid
- Physiology of the grid
  - A good presentation/interpretation of the physiology paper
- We will study the SOG in the next lectures.