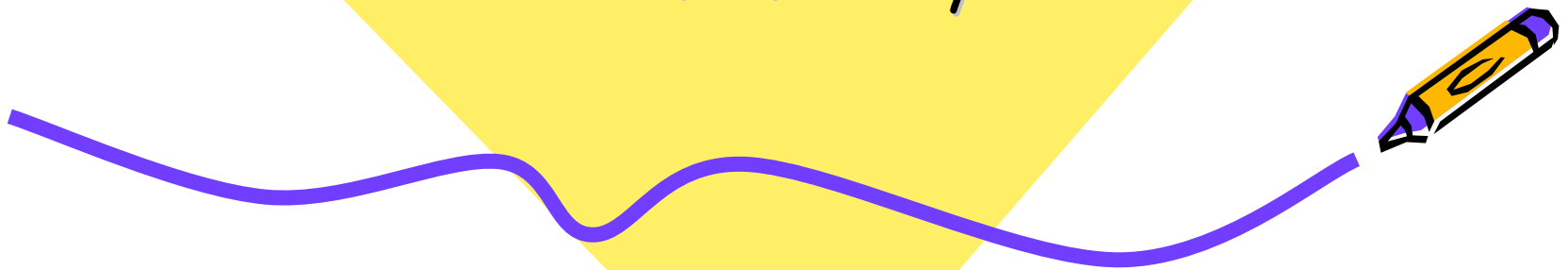


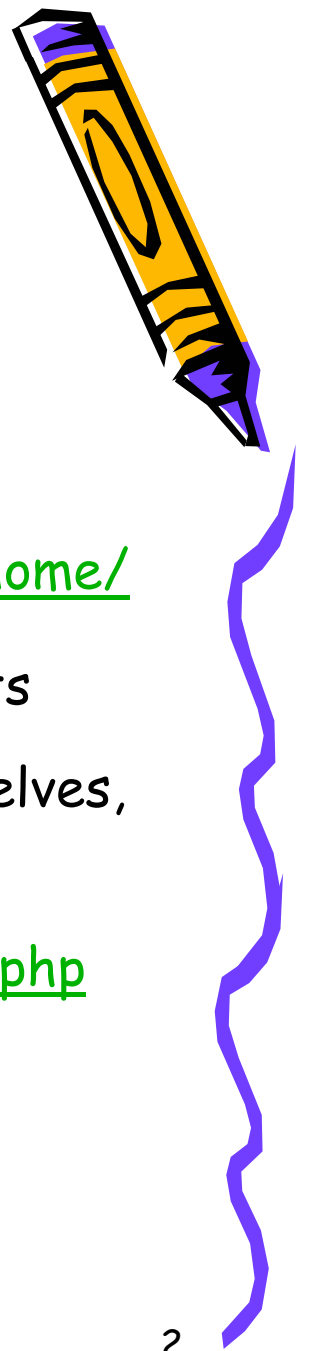


Grids in Use

B. Ramamurthy



Genre 0

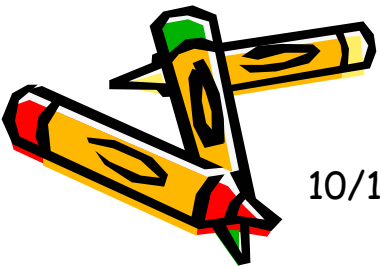
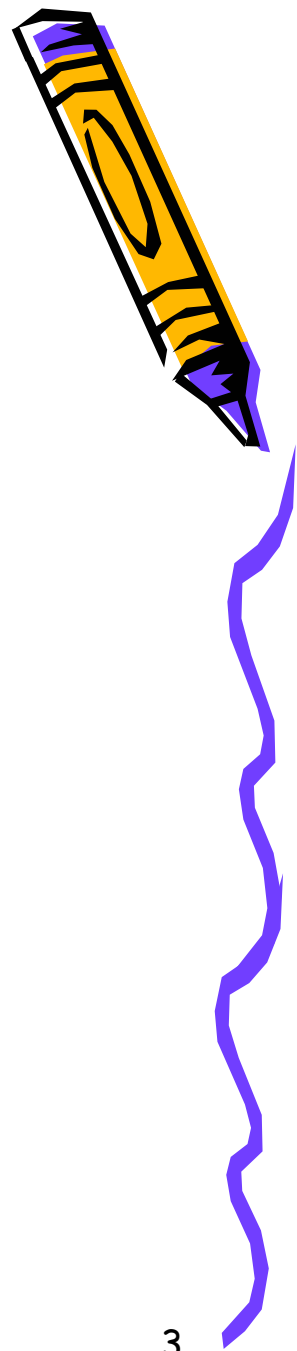


- Seti@home : search for extra terrestrial intelligence: <http://planetary.org/html/UPDATES/seti/index.html>
 - The Wow signal
<http://planetary.org/html/UPDATES/seti/SETI@home/wowsignal.html>
- Protein Folding : **Proteins** are biology's workhorses -- its "**nanomachines**." Before proteins can carry 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)

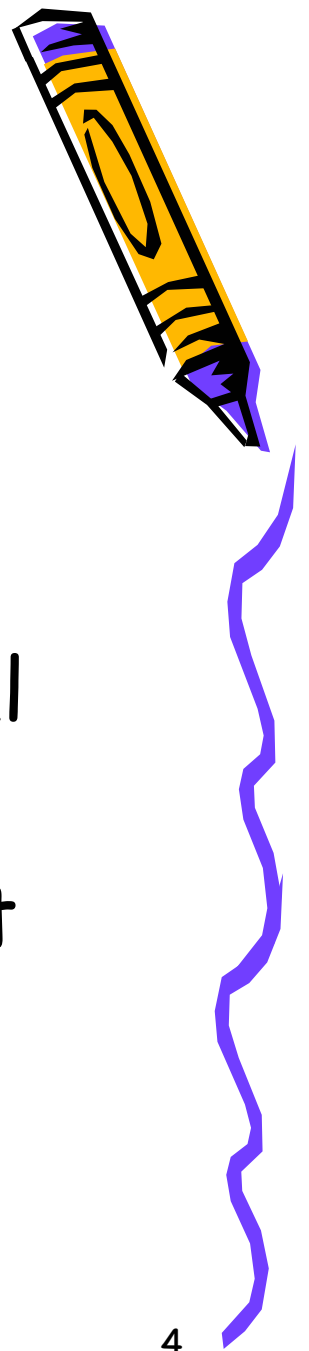


10/18/2004

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3

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)



10/18/2004

BR

4

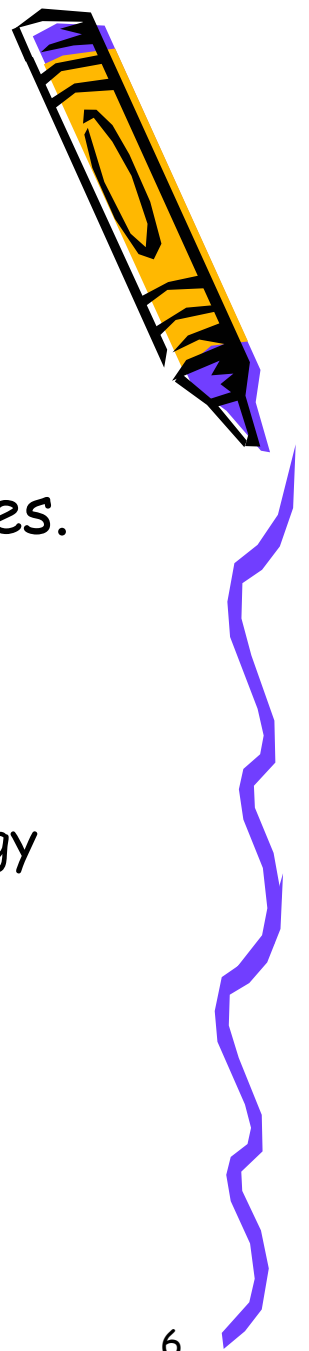
Genre 3



- 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.nsd.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.

