CS790Z Software Engineering Spring 2000

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E-Books

- **Beowulf:** http://beowulf.gsfc.nasa.gov/
- **Parallel Computing Archive:** http://www.hensa.ac.uk/parallel/index.html
- **PVM: Parallel Virtual Machine** http://www.epm.ornl.gov/pvm/
- **MPI: Message Passing Interface** http://www-unix.mcs.anl.gov/mpi/index.html
- **Latex2Html:** Use LaTex and publish on the web using Latex2html.
  http://www-dsed.llnl.gov/files/programs/unix/latex2html/manual/
- **Computational Science Textbook:** http://csep1.phy.ornl.gov/csep.html

Syllabus

The course focuses on projects, their conceptualization, design, and implementation. Almost all projects in this course can be considered computational science projects. Our preferred approach is to build a prototype, learn from it, then build a better prototype.

There are two constraints.

- We are interested in web interfaces to our projects.
- All work will be expected to interface with the Generic Object Oriented Graphical Utility (Googu) which you can see at http://gaslab.cs.unr.edu

Please look in http://www.cs.unr.edu/~sushil/class/790z/ for pointers to papers and other information useful for this course. I would like each of you to set up a home page and keep a pointer to your most current work (graphical or textual). You will also have access and accounts on a Beowulf parallel supercomputer (gaspac) running *linux*, a free Unix OS clone (Unix is a registered trademark). Your grade will depend on progress made towards completing your project. A complete project would be an industrial strength implementation, with user and programmer manuals, and a web interface like the one at http://pinon.cs.unr.edu/~sushil/tsp/appnew/. A tentative schedule is posted on the class web page at http://www.cs.unr.edu/~sushil/class/790z

Communications

If I need to communicate with the class as group I'll be using email. You are required to check your email every day. Other Internet resources can be found on the class web page