CS 598PPM: Parallel Programming Models

Time and place

Place: 2233 Everitt Laboratory
Time: 12:30pm – 13:45pm, Tu/Th

Course personnel

Instructor:	Lawrence Rauchwerger	
	Office	4114 Siebel Center for Comp Sci
	email:	rwerger@illinois.edu
	Phone	217-244-0968
	Hours	after class

Text Book (optional)

David Culler and J.P. Singh, *Parallel Computer Architecture* Morgan Kaufmann, San Francisco, CA. 1998.

A set of papers about modern parallel computer architecture and software.

Tentative Topics

Project

You will be required to deliver a project of your choice at the end of the semester. The topic is the student's choice but must be discussed with me. Acceptable topics are simulation of hardware for parallel systems, compiler and operating system issues for parallel systems, large scientific applications that are adapted for parallel execution. Note that a simple parallelization of a code is not sufficient for a passing grade. The project has to show an innovative design and a thorough analysis.

Computing Resources

You can use any of the parallel computer systems at the NCSA or the Engineering Cluster as well as any other resources you may have access to. You must request accounts on these machines if you do not already have them.

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