

# Homework 1: CS621, Fall 2009

**Due Date: 3:15PM, September 17, 2007**

Go to the Top 500 Supercomputers site (<http://www.top500.org/>) and study the five most powerful supercomputers in each of the last five years.

1. (10 points) What are the predominant architectures used to build the most powerful supercomputers in the past five years?
2. (10 points) Based on your own analysis, what architectures can you predict for the supercomputers in the next few years?
3. (10 points) Which countries are the ones that have the most powerful supercomputers? What applications are the main targets of these supercomputers?
4. (20 points) Give a detailed example of supercomputers being used in a business situation. You need to collect some information from this business's web pages.