Graduate students taking CSC 561 will study a topic related to computer architecture and report their studies in the form of a short term paper and in-class presentation. The following are some suggestions for topics.

**Suggested Topics**

- Superscalar and VILW (Very Long Instruction Word) processors.
- Architecture of a commercial chip or system with respect to aspects such as pipelining, caching, use of multiple processors, disk arrays, etc... Examples include Intel Pentium, Intel Itanium, AMD Athlon, Sun Sparc, Dec Alpha.
- Special purpose processors.
- New applications such as: Mobile computing, video on demand, wireless systems.

**Some Resources**

- Textbook has some discussions of advanced architectures and systems, which should be supplemented with additional readings from other resources.
- [http://www.intel.com](http://www.intel.com);
  [http://www.amd.com](http://www.amd.com);
  [http://www.sun.com](http://www.sun.com);

**Due Dates:**

Please email your term paper to me **BEFORE or ON Wednesday April 4, 2007**. Presentations will be scheduled for Monday April 9, 2007 or later. Please also submit a hard copy of your term paper in class on the day of your presentation.

In addition to your term paper, please also email to me your presentation (e.g., in Power Point) on the day of your presentation.