Review for Midterm Exam #2

Midterm Exam #2 will be given 1:30-2:20pm, on Wednesday, March 30, 2011, in class (Room C-141). It will be an open text book (Andrew S. Tanenbaum, Structured Computer Organization, 5th Ed., Pearson Prentice Hall, 2006) and open notes test. The exam will be made up of short problems and short essay type questions. The use of laptops, PDAs and cell phones are strictly prohibited. Students should bring their Blue/Green Exam Pads to the exam. Students are responsible for topics covered in class and in the homework assignments, and the reading assignments. Students should turn in both their Exam Pads and their Exam Books when the time is up for the test.

Chapters of the text to be reviewed:

4.1 An Example Microarchitecture
4.2 An Example ISA: IJVM
4.3 An Example Implementation
4.4 Design of the Microarchitecture Level
4.5 Improving Performance
4.6 Examples of the Microarchitecture Level
4.7 Comparison of the Pentium, ULTRASPARC and 8051

5.1 Overview of the ISA Level
5.2 Data Types
5.3 Instruction Formats
5.4 Addressing
5.5 Instruction Types
5.6 Flow of Control

Appendix B Floating Point Numbers

Note: The Mic-1 simulator program and all ULTRASPARC III examples are excluded