## CSCI 2321 (Principles of Computer Design), Spring 2004 Homework 2

Assigned: January 23, 2004.

**Due:** January 30, 2004, at 5pm.

Credit: 20 points.

## 1 Problems

Do the following problems. You may write out your answers by hand or using a word processor or other program, but please submit hard copy, either in class or in my mailbox in the department office.

- 1. (2 points) Do problem 2.1 on p. 90 of the textbook. (Your answers should be in the form "M1 is faster, by a factor of n" or "M2 is faster, by a factor of n" whichever is appropriate.)
- 2. (2 points) Do problem 2.2 on p. 90 of the textbook.
- 3. (2 points) Do problem 2.3 on p. 90 of the textbook.
- 4. (2 points) Do problem 2.4 on p. 90 of the textbook.
- 5. (2 points) Do problem 2.5 on p. 90 of the textbook.
- 6. (2 points) Do problem 2.10 on p. 91 of the textbook. (Your answer should be in terms of MIPS (millions of instructions per second, in this context).)
- 7. (4 points) Do problem 2.11 on p. 92 of the textbook. (Your answer should be in the form "M1 is faster, by a factor of n" or "M2 is faster, by a factor of n" whichever is appropriate.)
- 8. (4 points) Do problem 2.12 on p. 92 of the textbook.