# CSCI 2321 (Principles of Computer Design), Spring 2002

# Homework 2

**Assigned:** January 23, 2002.

**Due:** January 30, 2002, by the start of class.

**Credit:** 20 points.

## 1 Problems

Write out answers to the following questions (by hand or using a word-processing or text-formatting program). Please submit hardcopy.

1. (2 points) Do problem 2.1 on p. 90 of the textbook.
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.)
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.