CSE 378 Winter 1999

## Machine Organization and Assembly Language Programming

## Problem Set #7

Due: Thursday, February 25

This assignment is on pipelining. You should have read Chapter 6, Sections 1 through 6.

- 1. Exercises 6.2, 6.4 and 6.14 (data dependences)
- 2. Exercise 6.9 (Pipeline structure and control)
- 3. Exercises 6.15, 6.19 and 6.20
- 4. Recall the "instruction"  $R_t \leftarrow R_t + Mem[R_s + offset]$  that you saw in your midterm. Why would it be hard to add this instruction to the MIPS pipeline?
- 5. Exercise 6.28