CSE 378 Autumn 1999

## Machine Organization and Assembly Language Programming

## Problem Set #2

Due: Thursday, October 14

- 1. By the end of the second week, you should have read Chapter 1, Chapter 3, Chapter 4 (Sections 4.1 to 4.4) and Appendix A Sections A1, A2, A6, A9, A10 (not every line of the latter!)
- 2. Do but do not turn in the exercise "Familiarization with SPIM" (go to the 378 Home page and follow the links to "Help resources" and then "Exercise: Familiarization with SPIM"). The use of *xspim* could be very valuable to check or even give you answers to some of the following exercises.
- 3. In Chapter 3 do the following exercises (recall that \$zero stands for register 0 and \$at for register 1).
  - Ex. 3.1 (give the answer as a function of n; 3.5; 3.6; 3.10 (Note that for some implementations of SPIM, some of the pseudo instructions generated an error. Did that happen to you and, if so, for which one?); 3.11
  - Ex. 3.19. Do it only for the load-store and stack architectures. One of our future programming assignments will be based on the stack architecture concept, so this exercise is important.
- 4. In Chapter 4 do exercises 4.10, 4.14 (not part (c)), and 4.19.