

Computer Organization

Project 1

Due: February 6, 2008

For each of the programs described below, write the program in MIPS assembly language and test it using the SPIM MIPS simulator. Comment your code thoroughly. Submit both a printout of your source code and an email with the source code attached.

Download SPIM at <http://pages.cs.wisc.edu/~larus/spim.html>

1. Write a program that prompts the user to enter two integers, adds the integers together, and outputs their sum. Submit the program as `sum.s`
2. Write a program that outputs the integers from 1 to 100 (inclusive) using a loop. Submit the program as `loop.s`
3. Write a program that prompts the user to enter an integer (n) and then outputs the n^{th} Fibonacci number. Use a recursive function to compute the Fibonacci numbers. Submit the program as `fibonacci.s`