



Intro to MIPS Memory Structure and MIPS Assembly Language

Example Programs to illustrate basic I/O and computation

Program 1: Hello World (because it is a tradition!)

Program 2: Ask for an integer input and write it back out to the screen.

Program 3: Ask for integer values for A and B, compute $A+B - (B//2)$, echo input and print out answer.

In Class Assignment: Write a program that asks for an integer, a, and an exponent, e and computes a^e

Programs to Write This Afternoon

1. Write a complete program that asks the user for an integer number of days and displays how many seconds those days represent with a statement like
7 days contain 604800 seconds.
All on one line.
2. Write a complete program that asks the user for integer values for a, b, c, and x, and then calculates and displays the value of $ax^2 + bx + c$ with an appropriate label.
3. Write a complete program that computes and writes out all the powers of 2 up to 2^{10} .