

ENGR 3410: HW#2

Number Systems & MIPS Assembly

Due: October 3, 2006

The purpose of this homework is to be a diagnostic of your number systems, MIPS assembly, and machine code skills. Please show all work and annotate the people you worked with explicitly.

All homework turned in via paper must be stapled. And by stapled I do not mean folded over or punched through with a resistor or taped with electrical tape. I mean actual "from a stapler stapled". I will gladly accept L^AT_EX files and PDFs.

2.1 Number systems

Textbook problems 2.2, 2.3

2.2 MIPS instruction set

Textbook problem 2.4

2.3 Assembly coding

Textbook problem 2.6

2.4 MIPS assembly

Textbook problems 2.29, 2.59 (off of your CD, and on the wiki).

2.5 Machine code

Using the MIPS program in Exercise 2.34 (bugs and all), determine the instruction format for each instruction and the decimal (base 10) value of each instruction field.