

**CMSI 284**  
**COMPUTER SYSTEMS ORGANIZATION /**  
**SYSTEMS PROGRAMMING**  
Spring 2010

### **Assignment 0204**

This assignment summarizes relevant handouts for what has been covered in class so far, plus exercises what you [should] have learned so far with numeric encoding.

#### **Not for Submission**

Review the following notes from Dr. Toal's web site as needed. Links to them can be found on the course web site:

1. "What is Systems Programming?"
2. "Information and Computation"
3. "Computer Systems Organization"
4. "Numeric Encoding"

#### **By February 2**

To separate the task of actually doing the work and learning (or refreshing your memory) about LaTeX, I recommend that you complete the exercises *on paper* first, then take a first stab at converting to LaTeX by the February 2 class. That way, you can ask questions if you get stuck, and you have a couple of days to perfect the LaTeX transcription of your work.

#### **For Submission**

Do the supplied set of numeric encoding exercises *without the aid of a computer*. All integer encodings use two's complement.

Submit the final version as a LaTeX document, using the supplied *.tex* file as a basis. Turn in hardcopy of *both* the original *.tex* source and its processed *.pdf* version.

Intermediate work is a little harder to render in LaTeX, but you may want to include it. If you want to show such intermediate computations, you may write them (clearly!) on the *.pdf* hardcopy.

Finally, keep the *.tex* source on file somewhere. We'll do more with it next week.