

CMSI 284

COMPUTER SYSTEMS ORGANIZATION/ SYSTEMS PROGRAMMING

Spring 2010

Term Portfolio Specifications

As we approach the end of the semester, it's time to provide some final details to the term portfolio, which is due on May 6, the same day as the final exam. Since most of you have largely done the work for this portfolio, the hope is that revising and cleaning up this work will help you in preparing for the exam.

For Submission

For your term portfolio, commit final, polished versions of the following assignments:

- Assignment 0204 (numeric encoding portion of *hw-encoding.tex*)
- The “*calculator* series:”
 - *calculator.c* from Assignment 0218
 - *calculator-plus.c* from Assignment 0318
 - *calculator.asm* from Assignment 0325
 - *calculator-plus-plus* from Assignment 0415
- The *spelling* suite from Assignment 0318, with the following change: for *spell-checker.c*, instead of performing the “spell check” from standard input, have the program accept a second argument representing the text file whose words are to be checked. The user's response on whether new words should be added to the dictionary shall continue to be read from standard input.
- *trig-art.asm* from Assignment 0415

Simply commit new versions of these files as you polish and refine them. Your portfolio constitutes whatever is committed as of May 6.

Covered Objectives

The portfolio is meant to measure where we are in terms of the following course objectives based on L. Dee Fink's *taxonomy of significant learning*, as presented in the syllabus and on the first day of class:

- your command of the *foundational knowledge* behind how computing systems are structured and operate at a level that is very close to the actual machines on which they run,
- your ability to *apply* this knowledge by being capable of manually encoding and decoding bit representations, writing programs in C and assembly language, and making connections among these levels of abstraction, and
- your *integration* of material from this and previous courses into a comprehensive picture of how abstract concepts take concrete form when they approach the physical machine.

I hope you see how the choice of portfolio assignments represents these learning objectives.

Criteria

The general criteria for evaluating your portfolio have been given in the syllabus.