Meeting Minutes

Date: February 17, 2011

Time: 10:30 AM

Location: SEL

Attendees: Brad, Elliot, Ryan, Zach, Evan

Secretary: Zach

* Discussed ways to improve our grades from last lab, like:
  + Adding a table of contents for the code in the programmer’s guide
  + Applying consistent formatting to code, in terms of line lengths and comments
  + Using Javadocs to comment methods and classes
* Went over several errors in program currently
  + Program always behaved as if input file was relocatable
  + Code was not compiling in eclipse due to a line being incorrectly commented out
  + Location counter was giving incorrect values
  + Output going all to one line in file
  + Making specification of an output file a requirement
* Decided that main focus now is to test and implement error messages
  + Some test cases to implement include
    - Testing limits on number of symbols, literals, and records
    - Testing all machine ops and pseudo-ops
    - Ensuring forward referencing works
    - Beginning execution at last address in memory
    - Having a program span a page boundary
    - Input files missing a .ORIG and/or .END
    - Incorrect input formats
      * Having characters in the white spaces between operands or a label longer than 6 characters
      * Using a symbol, pseudo-op, or operation that does not exist
      * Redefining a symbol
      * Using a literal incorrectly (in wrong operand)
      * Incorrect values for immediates (outside of appropriate range)
      * Incorrect values for registers (between 0-7)
    - Testing all of these on both relocatable and absolute programs
    - Edge-case behaviors not listed
  + Errors reporting needs to be implemented
    - Use method similar to last lab, create a list of errors and output them all to the user
    - Impose a limit on number of errors to output to console, that way user is not overwhelmed with error messages (though maybe save all of the other ones somewhere so they can look at them all?) (or even make it a command line argument, like either verbose error output or capped to a certain number)
* Discussed repository issue and potential ways to deal with it
  + Will likely stay with current system, but may change name of webpage to make it more obscure
* Set next meeting as a Skype chat on Sunday, Feb. 20, at 7:00 PM
  + Tasks: each have at least a test case to contribute
* Final meeting: Tuesday, Feb. 22 at 10:30 a.m. in SEL
  + Tasks: have everything done (or very nearly done!) so we can go over everything as a group and ensure we met all of the lab requirements
  + Give documentation to Elliot by 6:00 p.m. for free printing!