COL 216 Computer Architecture

Lab-3

Evaluation of Expression With Input/Output

We haven't used 'UsefulFunctions.s' since we were using Version 1.9.0 of ARMSim. We read the file('expr.txt') using simple SWI instructions. The output is displayed on the console(stdout).

To run the code, load the files 'lab3.s' and 'lab2code.s' on ARMSim. To evaluate a new expression enter it in 'expr.txt' and run again.

Example:

- (10+10*(20-10))

    Answer: 200

- 123*10-(123*9)

    Answer: 123

- 1*(2*(3*(4*(5*6))))

    Answer: 720

    End Of File

Note: We assumed that the expression only contains digits [0-9], symbols {+, -, *}, and parentheses, as given in the assignment statement.

Rajbir Malik   2017CS10416

Rajat Jaiswal   2017CS50415