Csc\_11

Class notes

10/5/16

Expressions

Infix expressions

* a +b \*c
* Follows basic math rules (ie. Order of ops)

Postfix expressions

* RPU
  + Reverse polish notation
* Compiler
  + a, b, c are pushed onto a string
  + +, \* are stored in the stack
  + Postfix:
    - a b c \* +
  + push a,b,c onto stack
    - push a
    - push b
    - push c
  + pop values
    - pop r0 //contains C
    - pop r1 //contains b
  + Multiply
    - mul r0,r0,r1 //c\*b
    - push r0;

-g

* Enables GNU debugger in program
* Commands
  + Info registers
    - Displays registry information
  + n
    - Steps into the next function and outputs it
  + cpsr
    - computer status registry
    - first value in binary contains info
      * ex) 0x60000010
        + Check 1st number
        + 6 = 0110

Negative

Zero

Carry

Overflow