Csc 11

Class Notes

10/3/2016

Printf (misc. info)

* When printf reads an \n, the program is supposed to flush the buffer, but it doesn’t.
  + Must run *bl fflush* after printing text to clear buffer
* Ex)

fmt\_string = “myValue: %d\n”;

ldr r0, = fmt\_string

ldr r1, = myValue

ldr r1, [r1]

bl printf

ldr r0, #0 //Nulls registry 0

bl fflush //Flushes buffer

and

* “and” command continues previous code
* Ex)

Main:

ldr r1, = value

ldr r0, [r1] //loads word to r0

and r2, r0, #0xff000000 //loads top 2 bytes to r2

and r3, r0, #0x00ff0000 //loads top 2 bytes to r3

add

* Def.) Adds two values
  + Does NOT set status register

adc

* Def.) add with carry function
  + Calculates registries and carries over the value from other registries

adds

* Def.) adds two registries and sets flags as needed
  + Sets status register

Study

* Binary arithmatic