

**ILOC Reference**  
**CS 480 - Spring 2015**  
**(Abbreviated Lab Version)**

Form	Op1	Op2	Op3	Comment
<b>Integer Arithmetic</b>				
add op1, op2 => op3	reg	reg	reg	addition
mult op1, op2 => op3	reg	reg	reg	multiplication
addI op1, op2 => op3	reg	imm	reg	addition w/ constant
multI op1, op2 => op3	reg	imm	reg	multiplication w/ constant
<b>Data Movement</b>				
i2i op1 => op2	reg	reg		register copy
loadI op1 => op2	imm	reg		load integer constant
loadAI [op1+op2] => op3	reg	imm	reg	load from base+index
storeAI op1 => [op2+op3]	reg	reg	imm	store to base+index
<b>Comparison</b>				
cmp_LT op1, op2 => op3	reg	reg	reg	less-than comparison
<b>Control Flow</b>				
label ("op1:")	lbl			control flow label
jump op1	lbl			unconditional branch
cbr op1 => op2, op3	reg	lbl	lbl	conditional branch

Op	Meaning
reg	register (int or bool)
imm	immediate (int constant)
lbl	jump label