

Kyle Taylor	akt0011
Michael Jones	mrj0006
Group 26	

Diagram of Binary Format for Instructions

	Push	Pop	Load	Sto	Add	Mult	End
stackSim	0x00	0x01	X	X	0x02	0x03	0x04
accumSim	X	X	0x01	0x0A	0x10	0xA0	0xAA

stackCode

Source Code	Binary Translation
.text PUSH X PUSH X MULT PUSH A MULT PUSH B PUSH X MULT ADD PUSH C ADD POP E END	.text 0x00200000 0x00200000 0x03000000 0x00200001 0x03000000 0x00200002 0x00200000 0x03000000 0x02000000 0x00200003 0x02000000 0x01200004 0x04000000
.data X: 3 A: 7 B: 5 C: 4 E: 0	.data 0x2000000000003 0x200001000007 0x200002000005 0x200003000004 0x200004000000

accumCode

Source Code	Binary Translation
.text Load x Mult b Sto b Load x Mult x Mult a Add b Add c End .data x: 3 a: 7 b: 5 c: 4	.text 0x0120000000 0xA020000002 0x0A20000002 0x0120000000 0xA020000000 0xA020000001 0x1020000002 0x1020000003 0xAA .data 0x2000000000000003 0x2000000100000007 0x2000000200000005 0x2000000300000004

Size in bytes

