Group 12

Tarence Beard Jr. & Jacob Varner

Stack Binary Diagram

Opcode	Hex Format	Binary Format
PUSH	0x00	00000000
POP	0x01	00000001
ADD	0x02	00000002
MULT	0x03	00000003
END	0x04	00000004

Accumulator Binary Diagram

Opcode	Hex Format	Binary Format
LOAD	0x00	00000000
STO	0x01	00000001
ADD	0x02	00000002
MULT	0x03	00000003
END	0x04	00000004

Assembled Stack

ASCII	Binary
.data	.data
0x00000000 3	0x0000000000000003
0x00000001 7	0x0000000100000007
0x00000002 5	0x0000000200000005
0x00000003 4	0x0000000300000004
0x00000004 0	0x0000000400000000
.text	.text
PUSH 0x00000000	0x0000000000
PUSH 0x00000000	0x0000000000
MULT	0x0300000000
PUSH 0x00000001	0x0000000001
MULT	0x0300000000
PUSH 0x00000000	0x0000000000
PUSH 0x00000002	0x0000000002
MULT	0x0300000000
ADD	0x0200000000
PUSH 0x00000003	0x0000000003
ADD	0x0200000000
POP 0x00000004	0x0100000004
END	0x0400000000

TOTAL BYTES: 105

Assembled Accumulator

ASCII	Binary
. data	.data
0x00000000 3	0x0000000000000003
0x00000001 7	0x0000000100000007
0x00000002 5	0x0000000200000005
0x00000003 4	0x0000000300000004
0x00000004 0	0x0000000400000000
.text	.text
LOAD 0x00000000	0x0000000000
MULT 0x00000000	0x0300000000
MULT 0x00000001	0x0300000001
STO 0x00000004	0x0100000004
LOAD 0x00000000	0x0000000000
MULT 0x00000002	0x0300000002
ADD 0x00000004	0x0200000004
ADD 0x00000003	0x0200000003
END	0x0400000000

TOTAL BYTES: 85

TOTAL MIPS BYTES: 104