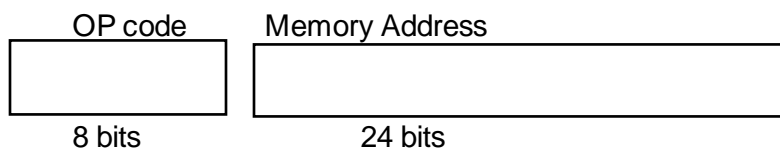


# Cameron Mathis

## Stack Machine:

---

Instruction:



Programs:

.text

|        |            |
|--------|------------|
| PUSH X | 0x01200000 |
| PUSH X | 0x01200000 |
| PUSH X | 0x01200000 |
| MULT   | 0x04000000 |
| PUSH A | 0x01200001 |
| MULT   | 0x04000000 |
| PUSH B | 0x01200002 |
| PUSH X | 0x01200000 |
| MULT   | 0x04000000 |
| PUSH C | 0x01200003 |
| PUSH   | 0x03000000 |
| ADD    | 0x03000000 |
| POP    | 0x02000000 |
| END    | 0x05000000 |

.data

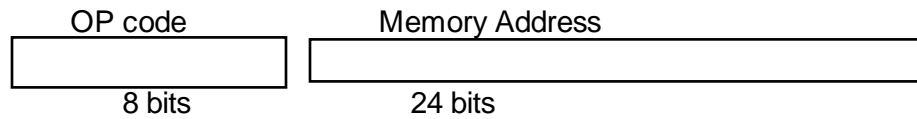
|     |              |
|-----|--------------|
| X:3 | 0x00200000:3 |
| A:7 | 0x00200001:7 |
| B:5 | 0x00200002:5 |
| C:4 | 0x00200003:4 |

Code Size: 68 bytes

Accumulator:

---

Instruction:



Programs:

```
.text
LOAD X      0x01200000
MUL X       0x04200000
MUL A       0x04200001
STO S1      0x02300000
LOAD B      0x01200002
MUL X       0x04200000
STO S2      0x02300001
LOAD C      0x01200003
ADD S1      0x03300000
ADD S2      0x03300001
END         0x05000000

.data
X:3         0x00200000:3
A:7         0x00200001:7
B:5         0x00200002:5
C:4         0x00200003:4
```

Code Size: 60 Bytes

Code Size of MIPS program: 52 Bytes