

Control Unit

Knob & Switch Settings

A Addr:	B Addr:	ALU Op:	Switch Pos:	C Addr:	RW Addr:
00	00	00	0000	00	00000

Reset
PC: 0

Instruction Interpretation

+1

IR: 1110100000001110

Main Memory

View As:	Value:	RW
2	0: 1000000100000101	<input checked="" type="radio"/>
2	1: 1000000100100110	<input type="radio"/>
2	2: 1010000100100001	<input type="radio"/>
2	3: 1000001001000111	<input type="radio"/>
2	4: 1111111111111111	<input type="radio"/>
2	5: 00000000000001001	<input type="radio"/>
2	6: 00000000000000001	<input type="radio"/>
2	7: 00000000000000000	<input type="radio"/>
Auto	8: 0	<input type="radio"/>

Data Path

Register Bank

C Bus Address	R0:0	A Bus Address	B Bus Address
	R1:0		
	R2:0		
	R3:0		

Execute

Pause

Animation Speed: Medium

Number Base: +-10

C Bus

0



24933

Main Memory Bus

A Bus

0

B Bus

0

A: 0 B: 0

Arithmetic and Logic Unit (ALU)

C: 0

- ☒ Zero
- ☐ Negative
- ☐ Unsigned Overflow
- ☐ Signed Overflow

ALU Operation

A+B
A-B
A/B
A&B

Machine/Assembly Language Instructions