Code	Operation	Type
0x0	Halt	H
0x1	IO	IO
0x2	Shift	S
0x3	load	A
0x4	store	A
0x5	add	A
0x6	sub	A
0x7	and	A
0x8	or	A
0x9	xor	A
0xA	not	A
0xB	nop	H
0xC	jmp	A
0xD	jmpe	A
0xE	jmpl	A
0xF	brl	A

Instruction Formats

- Halt - H-type
- IO - IO-Type
- Shift - S-Type
- Address - A-Type

Instr. Type	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
H-Type	0	0	0	0	x	x	x	x	x	x	x	x	x	x	x	x
IO-Type	0	0	0	1	I/O op		x	x	x	x	x	x	x	x	x	x
S-Type	0	0	1	0	Shift op		x	x	x	x	x	x	x	x	x	count
A-Type	op				address											