

[illegible]

Space	Sopr_instruction	S-Oopcode	Type	Syntax	Description	Psuedocode	Operand						Binary Visual															
0	SET_0	0b0000	single_opr	< S_OPR > < SET0 > < R2 > < R3 >	set to 0	A => 0	0	0	0	0	R2	R3																
1	RSH	0b0001	single_opr	< S_OPR > < RSH > < R2 > < R3 >	right shift	A >> 1 => B	0	0	0	1	R2	R3																
2	LSH	0b0010	single_opr	< S_OPR > < LSH > < R2 > < R3 >	left shift	A << 1 => B	0	0	1	0	R2	R3																
3	RCL	0b0011	single_opr	< S_OPR > < RCL > < R2 > < R3 >	right shift clock	A clockwise => B	0	0	1	1	R2	R3																
4	LCL	0b0100	single_opr	< S_OPR > < LCL > < R2 > < R3 >	left shift clock	A antic. => B	0	1	0	0	R2	R3																
5	NOT	0b0101	single_opr	< S_OPR > < NOT > < R2 > < R3 >	bitwise not	A ~ => B	0	1	0	1	R2	R3																
6	MUL_8-15	0b0110	single_opr	< S_OPR > < MUL > < R2 > < R3 >	remaining 8-15th bit	pre mul data => B	0	1	1	0	R2	R3																
7	R++	0b0111	single_opr	< S_OPR > < R++ > < R2 > < R3 >	increment by 1	A + 1 => B	0	1	1	1	R2	R3																
8	R--	0b1000	single_opr	< S_OPR > < R-- > < R2 > < R3 >	decreemtn by 1	A - 1 => B	1	0	0	0	R2	R3																
9	NEG	0b1001	single_opr	< S_OPR > < NEG > < R2 > < R3 >	negative	-A => B	1	0	0	1	R2	R3																
10	ODD	0b1010	single_opr	< S_OPR > < ODD > < R2 > < R3 >	returns 1 if odd else 0	bin(A) & 0b1 => B	1	0	1	0	R2	R3																
11	MSB	0b1011	single_opr	< S_OPR > < MSB > < R2 > < R3 >	most signif. bit	msb(A) => B	1	0	1	1	R2	R3																
12	LSB	0b1100	single_opr	< S_OPR > < LSB > < R2 > < R3 >	least signif. bit	lsb(A) => B	1	1	0	0	R2	R3																
13	LEN	0b1101	single_opr	< S_OPR > < LEN > < R2 > < R3 >	len of binary	len(A) => B	1	1	0	1	R2	R3																
14		0b1110	single_opr	< S_OPR > < < < < R2 > < R3 >			1	1	1	0	R2	R3																
15		0b1111	single_opr	< S_OPR > < < < < R2 > < R3 >			1	1	1	1	R2	R3																

Space	Type_instruction	T-Oopcode	Type	Syntax	Description	Pseudocode	Operand								Binary Visual															
0	FLAG	0b0000	cmp	< CMP > < FLAG > < R1 > < R2 >	returns {=,!=,...,even} as data	A- B	0	0	0	0	R1				R2															
1	=	0b0001	cmp	< CMP > < = > < R1 > < R2 >	equal	A- B	0	0	0	1	R1				R2															
2	!=	0b0010	cmp	< CMP > < != > < R1 > < R2 >	not equal	A- B	0	0	1	0	R1				R2															
3	<	0b0011	cmp	< CMP > < < > < R1 > < R2 >	only -ve	A- B	0	0	1	1	R1				R2															
4	>	0b0100	cmp	< CMP > < > > < R1 > < R2 >	not negative	A- B	0	1	0	0	R1				R2															
5	>	0b0101	cmp	< CMP > < > > < R1 > < R2 >	only +ve	A- B	0	1	0	1	R1				R2															
6	=<	0b0110	cmp	< CMP > < = < > < R1 > < R2 >	not positive	A- B	0	1	1	0	R1				R2															
7	odd	0b0111	cmp	< CMP > < ODD > < R1 > < R2 >	odd	A & 0b1	0	1	1	1	R1				0	0	0	0												
8	even	0b1000	cmp	< CMP > < EVEN > < R1 > < R2 >	even	A & 0b1	1	0	0	0	R1				0	0	0	0												
9		0b1001	cmp	< CMP > < < < < R1 > < R2 >			1	0	0	1	R1				R2															
10		0b1010	cmp	< CMP > < < < < R1 > < R2 >			1	0	1	0	R1				R2															
11		0b1011	cmp	< CMP > < < < < R1 > < R2 >			1	0	1	1	R1				R2															
12		0b1100	cmp	< CMP > < < < < R1 > < R2 >			1	1	0	0	R1				R2															
13		0b1101	cmp	< CMP > < < < < R1 > < R2 >			1	1	0	1	R1				R2															
14		0b1110	cmp	< CMP > < < < < R1 > < R2 >			1	1	1	0	R1				R2															
15		0b1111	cmp	< CMP > < < < < R1 > < R2 >			1	1	1	1	R1				R2															