



## Instructions:

NOP	\$00 00	; null device to null device
MOV	\$00 dd	; device to device
JMP	\$00 d1	; device to program counter
BRC	\$01 d1	; device to program counter if alu carry
BRN	\$02 d1	; device to program counter if alu nergative
BRE	\$03 d1	; device to program counter if alu equal
BRF	\$04 d1	; device to program counter if accumulator (device f)
BRX	\$05 d1	; device to program counter if x
BRY	\$06 d1	; device to program counter if y
BRZ	\$07 d1	; device to program counter if z
ADD	\$29 dd	; left plus right to f
SUB	\$26 dd	; left minus right to f
BUF	\$2F d0	; left to f
NOT	\$20 d0	; not left to f
SHL	\$3C d0	; shift left left to f
AND	\$3B dd	; left and right to f
NAND	\$34 dd	; left nand right to f
OR	\$3E dd	; left or right to f
NOR	\$31 dd	; left nor right to f
XOR	\$36 dd	; left xor right to f
XNOR	\$39 dd	; left xnor right to f
INC	\$4 0d0	; increment device
DEC	\$4 00d	; decrement device
RESET	\$4 d00	; reset device

## Examples:

NOP	%0000000001110001	\$0000	<i>move null to null</i>
MOV X, PC	%0000000001110001	\$0071	<i>move X to PC</i>
MOV X, \$0000	%0000000001110100	\$0074 \$0000	<i>move X to RAM[\$0000]</i>
MOV \$2002, A	%0000000001001010	\$0047 \$2002	<i>move \$2002 to A</i>
MVC X, PC	%0000000101110001	\$0171	<i>move X to PC if alu carry set</i>
MVE A, X	%0000001110100111	\$03A7	<i>move A to X if alu equals set</i>
ADD A, B	%0010100110101011	\$29AB	<i>A plus B</i>
NOT Z	%0011000010010000	\$3090	<i>NOT Z</i>
OR X, Y	%0011111001111000	\$3E78	<i>X OR Y</i>
INC X	%0100000001110000	\$6070	<i>increment X</i>
DEC X	%0100000000000111	\$6007	<i>decrement X</i>
RESET X	%0100011100000000	\$6700	<i>reset X to a zero value</i>