

Instruction Set

Instruction\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
ADD (immediate)	imm								dest		src		000			1
ADD (register)	000000							dest	src2		src		000			0

SUB (immediate)	imm								dest		src		001			1
SUB (register)	000000							dest	src2		src		001			0

LOAD (immediate)	imm		dest	00	010	1
LOAD (register)	000000	dest	00	src	010	0
LOAD (relative)	imm		dest	src	010	1
BANK SWITCH	imm		1111		010	0

STORE (immediate)	imm								src		00		011			1
STORE (register)	000000							dest	00		src		011			0
STORE (relative)	imm								src2		src		011			1

JUMP (immediate)	imm	0000		100	1	
JUMP (register)	0000000000			src	100	0
JUMP (relative)	imm	00	1	100	1	
HALT	11111111	0000		100	0	

JUMPZ (immediate)	imm								0000				101			1
JUMPZ (register)	0000000000										src		101			0
JUMPZ (relative)	imm								00		1		101			1

JUMPNZ (immediate)	imm								0000				110			1
JUMPNZ (register)	0000000000										src		110			0
JUMPNZ (relative)	imm								00		1		110			1

JUMPN (immediate)	imm								0000				111			1
JUMPN (register)	0000000000										src		111			0
JUMPN (relative)	imm								00		1		111			1