

Programming using compiler

INSTRUCTION	Parameter 1	Parameter 2	Parameter 3	Parameter 4	Usage
NOP	-	-	-	-	Wait for 4 CLK pulses (one cycle)
GOTO	LABEL NAME	-	-	-	go to the label
CALL	LABEL NAME	-	-	-	call label (use return to go back)
RETURN	-	-	-	-	Return to last call
OP	OP NAME	A	B	Result	Operation
MVMW	REG address	Module address	Data address	-	Move from Module to Work
MVWM	REG address	Module address	Data address	-	Move from Work to Module
LLW	REG address	litteral	-	-	Load litteral to work
OPSKI	OP NAME	A	B	Result address(optionnal)	Operation skip the next instruction if result = 0. If result address is specified, the result will be stored

Format is : **INSTR P1,P2,P3,P4**
Label are lines begining by ":"

OPNAME	USAGE	Result
RETA	Returns A (used for comparison or copying data)	A
AND	AND logical operator	A AND B
OR	OR logical operator	A OR B
XOR	XOR logical operator	A XOR B
NOTA	NOT operator on A	NOT(A)
ROTLA	Rotation Left on A	
ROTRA	Rotation Right on A	
SHFTLA	Shift Left on A	
SHFTRA	Shift Right on A	
ADD	Addition	A + B
SUB	Substraction	A - B
DECA	Decrement A	A-1