



Choice

Clock Button

### ALU

Source1Value	OpCode
Source2Value	+/-/...
ImmediateValue	
ALUResult	

### Alu Recognizer

OpCode
isALU

### Memory

Address1
Data1
Address2
Data2
Write Address
Write Data
Write Enable

### CPU

Clock	Address1	opCode
Reset	Register1	aluResult
isReset	Choice1	realAddress1
resetCode	Address2	realAddress2
pc	Register2	realAddressOut
	Choice2	
	AddressOut	
	RegisterOut	
	ChoiceOut	
	InstructionValue	

### Registers

AluResult
OutRegister
OutType
isALU

### Address Decoder

Address1Type	Address2Type	AddressOutType
Address1	Address2	AddressOut
RegisterAValue	RegisterBValue	RegisterOutValue
RealAddress1	RealAddress2	RealOutAddress

### Parser

Address1
Register1
Choice1
Address2
Register2
Choice2
AddressOut
RegisterOut
ChoiceOut
ImmediateValue

### PC

Reg
Call
JUMP
IF0JUMP
IF1JUMP
RESET

### Stack

Return
Call
Reset