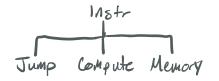


(D Design an 13A



1st thing to decide is how many? LDN LD log2N

Jump:

Compute:

Memory

· Conditional

· Arithmetic

· Read

· Unconditional

· Logial

· Write

Example: Add RI, R2
Operation

2 How many registers?

Example: Add RI, R2

0000 001 010

Saved in ROM
(Hard Disk on System)

Partition
Abi.

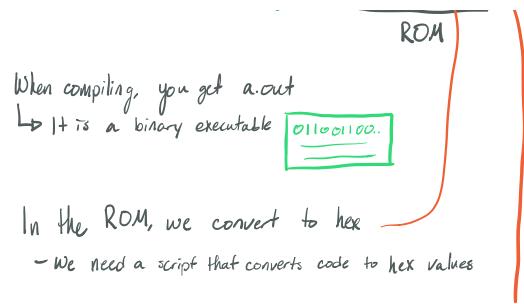
Data

Saved in ROM
(Hard Disk on System)

Instructions

Data

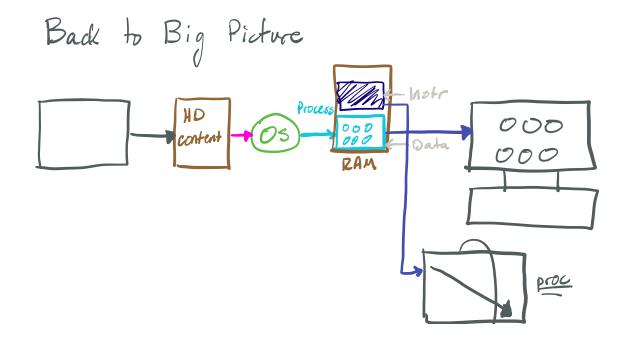
Image

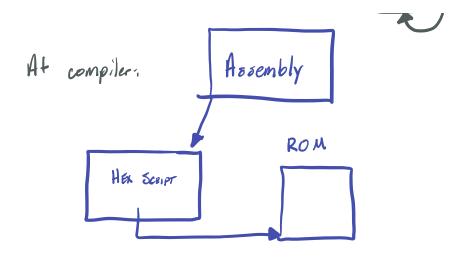


Contains your program as a stries of Hex code. Stored in ROM before simulation

Need to implement 154 on hordware! LD Different ops need different modules

- · Becomes Of code
- · Tells series of steps needed for doing an operation



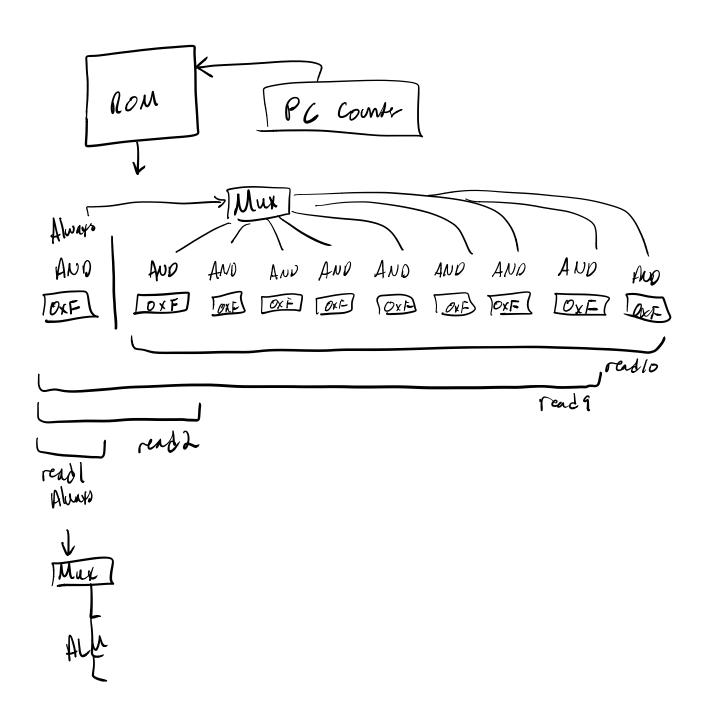


We type our stuff in HEX into the ROM block and then we can run

Must have: ADD AND Unconditional JMP SUB OR Conditional JMP

Also consider Matrix multiplication w/ JMP

Match Y86 opcodes



add	00
sub	10
mul	20
div	30
immon	4 0
irmon	6 0
thwon	7 0
numon	8
ing ing ing ing ing ing ing	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
halt	AO