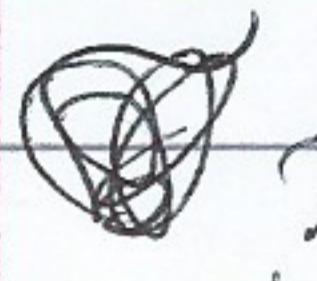


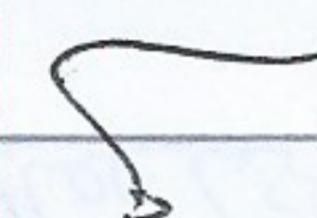
Virtual memory / Main memory



(measure of how many operations can be performed simultaneously)

ILP - Instruction Level Parallelism

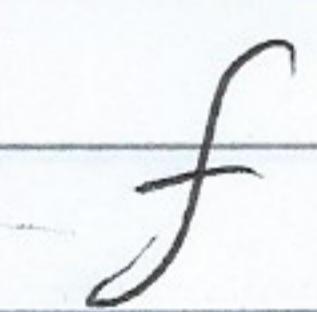
$$P = \frac{1}{2} \times \text{Coproficiency} \times \text{Voltage}^2 \Rightarrow P \propto V^2$$



Used by assembler to know the type of a specific code.

-data, etc are directives

-align



e) AL jumps to linked address and stores program  
MSB bits endian  
calculator (address of current instruction) to the register  
SRA

0 111 ... 1101  $\Rightarrow$  into processor

first, c

d) Bus condition means the MSB is read into the processor

RISC faster but CISC more clock cycles per SEC.

number of cycles each takes to complete an instruction

c) The key difference between RISC & CISC is the

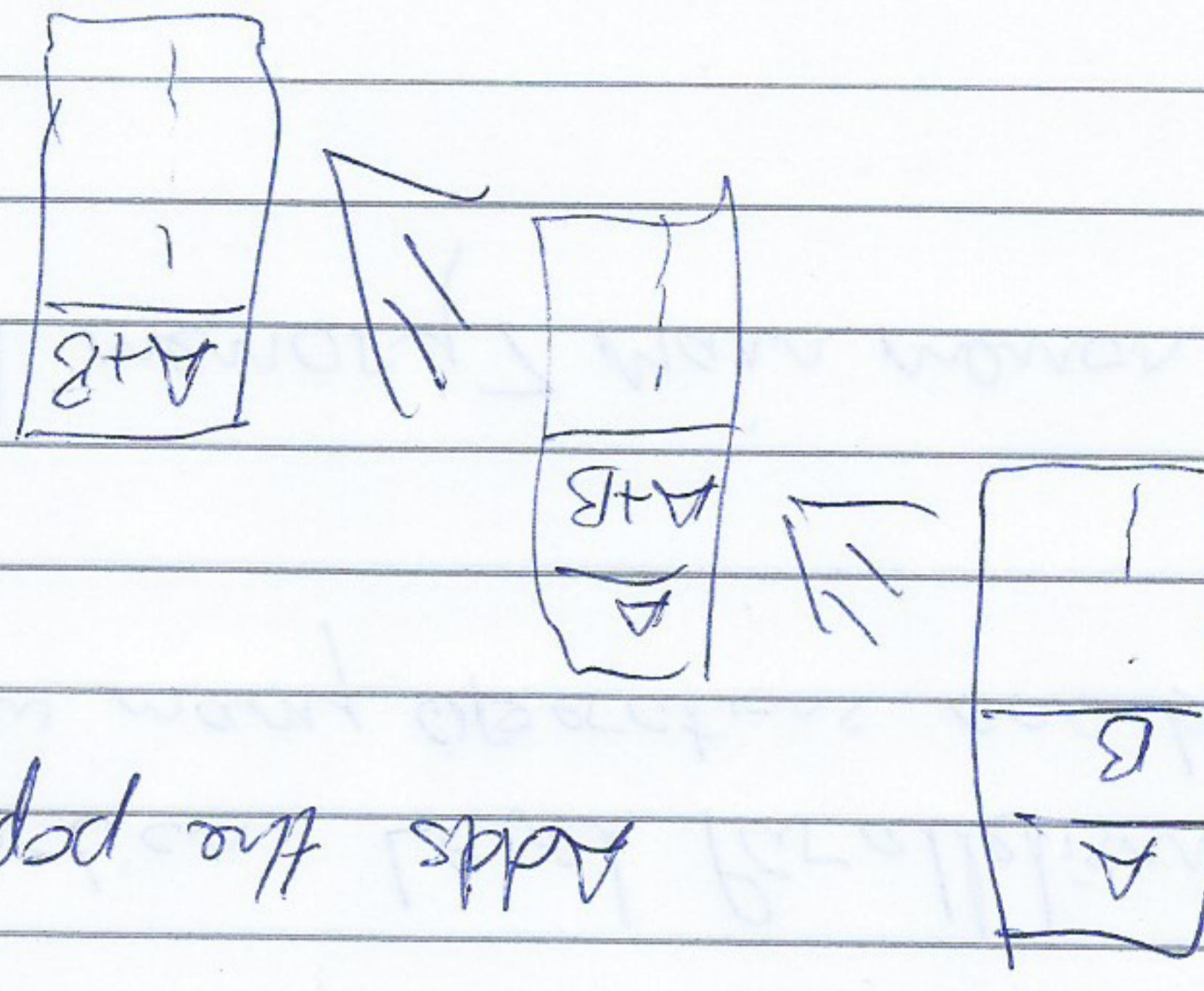
part of view

b) TISA is the early processor from the programmers

a) FETCH - DECODE - EXECUTE

15/16 REST





Adds the parts

C adds

Same native code for 'hot', methods for 'full' use

Use native code when 'hot', method called  
compile 'hot' methods to active machine code  
Profile code to find 'hot', (regularly used) methods

Then interpret code

n JIT = Just In Time compilers

Bytecode is Java equivalent of a line of equivalent assembly code, holding a byte or two of opcode and a few bytes for passing parameters.  
Instruction set for Java virtual machine

True - add can directly access registers, immediates

carry

"

ECX

"

SI

"

CLFLCW Tag

"

SI

"

ECX

"

CLFLC

"

SI

"

ECX

"

CLFLC

"

SI

"

CLFLC

"

SI