

## Lecture 1

Jason Lowe-Power

Office hours: Wed 1-2pm

Tues 10-11am

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### Goals

- Computer Architecture intro
- H/W + S/W interact'
- C programming
- a little Operating System

1) trick question      2) 500

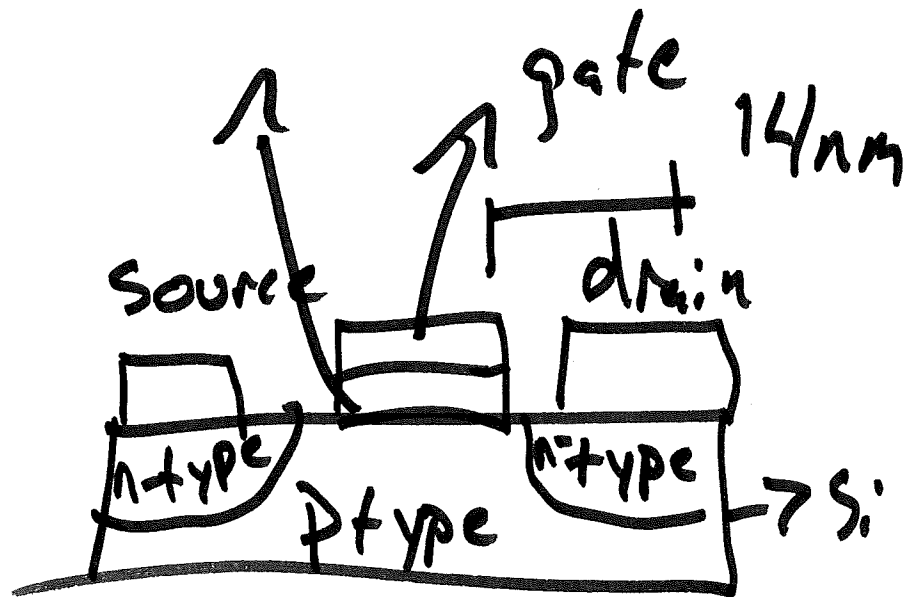
3) 1000

$$\begin{array}{l}
 \text{mi?} \\
 500
 \end{array}
 \cdot \frac{30,000 \text{ mi}}{\text{hr}} \cdot \frac{1 \text{ min}}{60 \text{ min}}$$


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- Computer Science:

- abstractions of abstractions

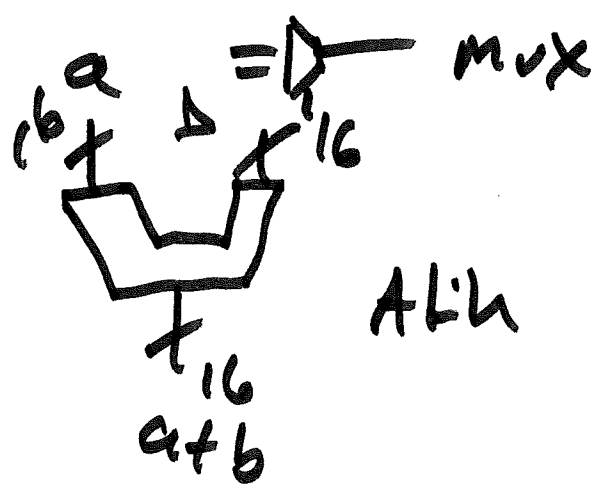
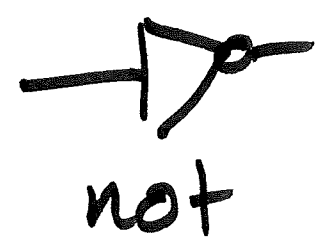
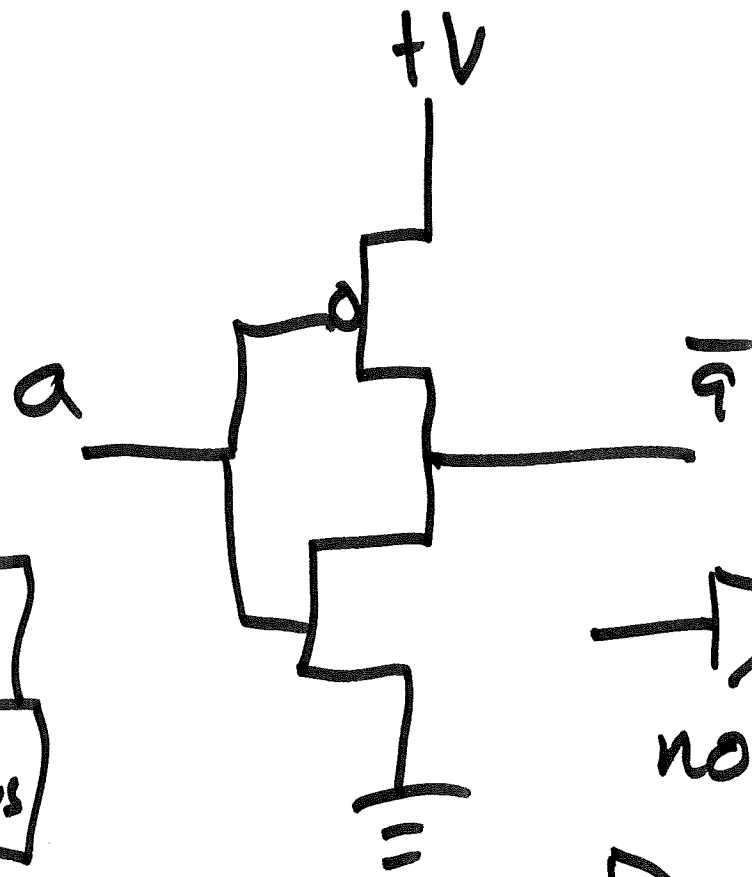


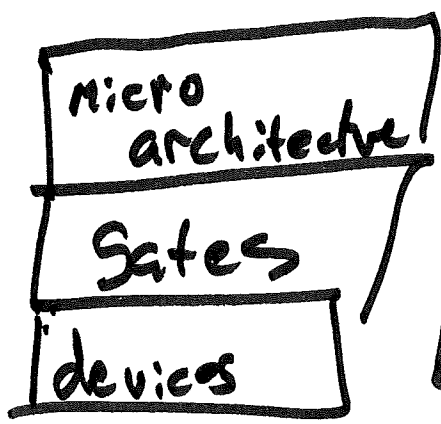
x-istors

electric signals

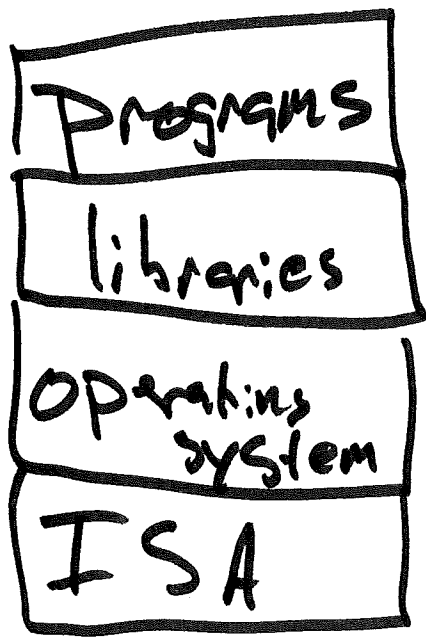
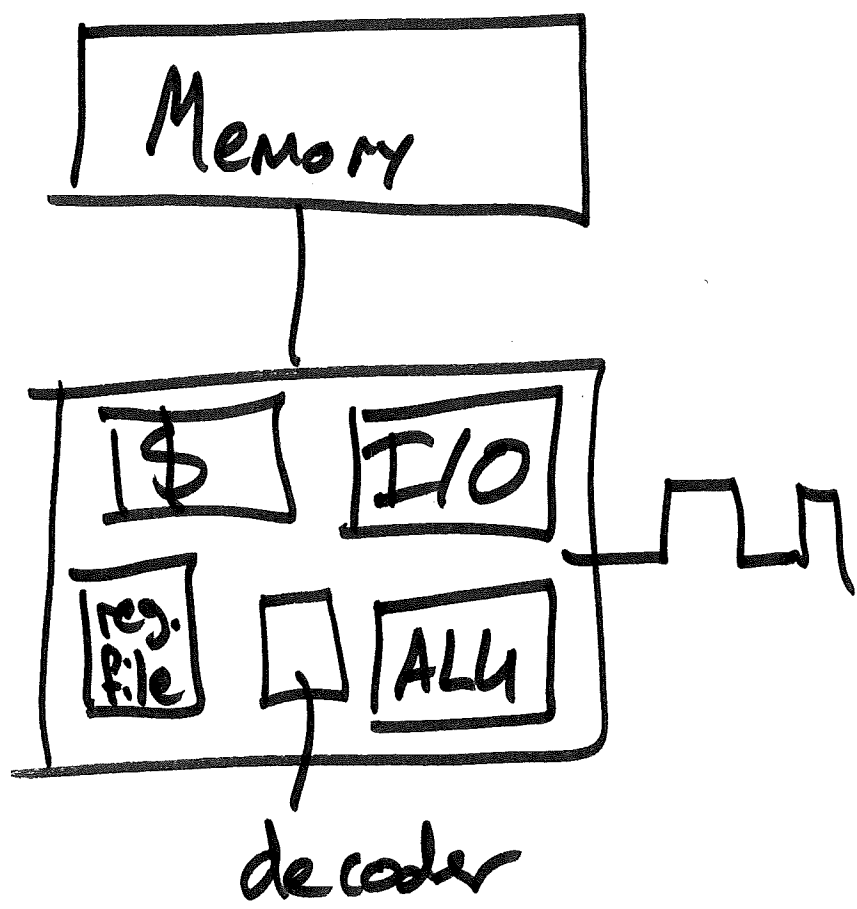
Quantum Mechanics

gates  
devices/phys





CPU



Instruction Set architecture