Lecture 1

Jason Lowe-Power

Office hours: Wed 1-2 pm
Tues 10-11am

Goals

- Computer Architecture intro
- H/W + S/W interaction
- C programming
- A little Operating System

1) trick question
2) 500
3) 1000
500 mi = $\frac{30,000 \text{ mi}}{\text{hr}} \cdot \frac{1 \text{ min}}{60 \text{ min}}$

Computer Science:
- Abstractions of abstractions

X-istors

Electric Signals

Quantum Mechanics
gates
demical/phys

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Instruction Set Architecture

Microarchitecture

CPU

Memory

Decoder

Register File

ALU

I/O

Memory

Programs

Libraries

Operating System

ISA