


Midterm Overview

Basic Information

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Exam Information

- 50 minutes
- May contain multiple choice and short answer questions
- You may be required to write assembly code



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What Will Be Covered

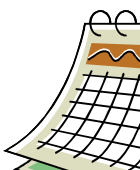
- Exam will cover Parts 1 to 4
- Lab activities
- No question will be asked that is not in the lecture notes
- Download from: athena.ecs.csus.edu/~dcook/35

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Exam Time & Date

- Sections 5, 8, 10
 - Wednesday, October 2nd
 - Normal class time
- Section 1
 - Thursday, October 3rd
 - Normal class time




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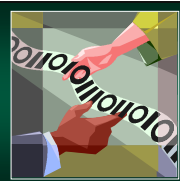
What you need to bring

- Exam booklets will be provided for the midterm
- So, you only need to bring a pen or pencil
- No** electronics allowed
- No** notes allowed



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Data & Memory

Part 1

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Part 1 – Important to Understand

- Binary numbers
- Hexadecimal numbers
- How text is stored
- Memory is an array
- Addresses!



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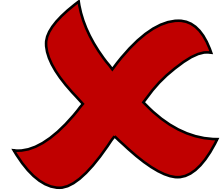
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Part 1 – Don't Worry About

- History of the Hindu-Arabic system
- EBCDIC and the details of Unicode
- History of ASCII
- ASCII character code values



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Processors

Part 2

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Part 2 – Important to Understand

- Control Logic Unit
- Execution Unit
- ALU
- Registers (x64)



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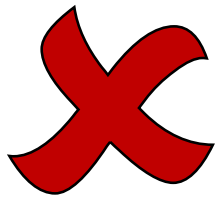
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Part 2 – Don't Worry About

- Example processors
- History of the Intel x86



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Programs

Part 3

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Part 3 – Important to Understand

- Program language generations
- Compilers
- Assemblers
- Linkers
- Assembly basics
- UNIX



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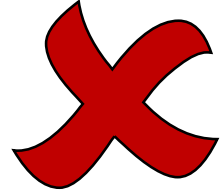
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Part 3 – Don't Worry About

- AT&T vs Intel syntax



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Control Logic

Part 4

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Part 4 – Important to Understand

- Unconditional Jumps
- Conditional Jumps
- If Statements
- While Loops
- Switch Statements



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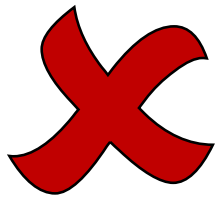
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Part 4 – Don't Worry About

- *Know it all*



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