

INEL 4206: Microprocessors

Primavera de 2003

Temas a estudiar para el examen parcial 2

EL examen 2 incluye todo el material cubierto por el examen 1.

Programming the Easy I

- + Easy I assembly language programming
- + Easy I machine code programming
- + Lecturas:
 - + Transparencias de Lecture 4
 - + Notas de la clase
 - + Problem set 2

Practical Universal Computers

- + von Neumann Architecture
- + CPU Performance Metrics
 - + Cycle Time
 - + CPI
 - + Execution time
- + Data Path Design
 - + Basic Building Blocks:
 - + Registers, muxes, buses, ALU's, etc.
 - + Edge triggered components and their impact on CPU design
- + Control Unit Design and Implementation
 - + Level 0, 1, 2 flowcharts
 - + Timing and sequencing of operations. Timing diagrams.
 - + Register Transfer Language
 - + State Transition Tables
 - + Memory interfacing
- + Lecturas:
 - + Transparencias de Lectura 4 (website)
 - + Notas de la clase
 - + Capitulo 2 de Patterson & Hennessy
 - + Capitulo 5 de Patterson & Hennessy
 - + Apéndice B de Patterson & Hennessy