

# 15-213 Recitation 7 – 3/5/01

## Outline

- Control Flow
- Memory Allocation
  - Lab 3 Details

## Reminders

- Lab 3: Conservative Garbage Collector
  - Checkpoint Due 3/13
  - Lab Due 3/21
- At least there's nothing over Spring Break (I think)

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## Exceptional Control Flow

- Higher level abstractions for dealing with miscellaneous conditions:
  - Error conditions that require errors to be thrown up many stack frames (functions)
  - Interrupt handling (I/O – Keyboard, Mouse, Network, etc.)
  - Familiarize yourself with `wait(2)`, `exec(3)`, `fork(2)`, `signal(2)`, etc.

# **sigsetjmp(3) & siglongjmp(3)**

`sigsetjmp(3)`

- Saves state about:
  - Stack Context
  - Registers
  - Program Counter
  - Blocked Signals

`siglongjmp(3)`

- Starts executing by immediately executing code from `sigsetjmp()`
- Man page says: "setjmp() and sigsetjmp make programs hard to understand and maintain. If possible an alternative should be used."
  - But we make you do it anyway