

CS 241
Section Week #4

02/16/12

Topics This Section

- MP3 overview
- `printf()` / `fgets()`, `getline()` example
- `fork()` / `exec()` / `wait()` example
- `strtok()`, `chdir()` example

MP3

- Simple Unix shell
- Built-in commands
 - Change directory
 - Termination
 - History
- Non built-in commands
- Error handling
- Concepts: process, fork, exec, wait

Read the command from stdin

- Let's look at 1.c

Running Non Built-in Commands

- Requires a new process to run the binary
 - Why?
 - `fork()` creates a new process
 - `exec()` runs executable
 - `wait ()` makes the parent wait for the child to finish
- Instead of using `system()` , we use `fork + exec + wait`