

- Reminder (as if you needed one!): Final December 13. Review sheet on the Web.
- Solutions to homework problems and midterm distributed in hardcopy; ask me if you missed one. (I will also put copies in the folder on Google Drive I shared earlier.)

Slide 1

- Grade summaries sent by e-mail.
- Final deadline for turning in homework (including revisions) the day before the exam at 11:59pm.
- Expanded list of extra-credit problems posted. (I may add others in the next few days.) Can only help your grade. Turn in no later than 12/14 at noon.
- Office hours as announced in e-mail: "Open lab" 12/05; office hours 12/10 and 12/11. Also e-mail is usually a good way to reach me.





Course Recap
Four key areas (the gospel according to former chair Pitts):

Process management.
Memory management.
Filesystem management.
I/O management.

Two views of operating systems:

"Virtual machine" that provides useful abstractions for applications programs, end users.
Resource manager.

Also a little about history, a little about security.



Slide 5





I/O Management
O/S as virtual machine: Layered abstractions for working with I/O devices (user-level s/w, device-independent s/w, etc.).
O/S as resource manager: Implementation of above, plus a little about lower-level interaction with devices (programmed versus interrupt-driven I/O versus DMA).





