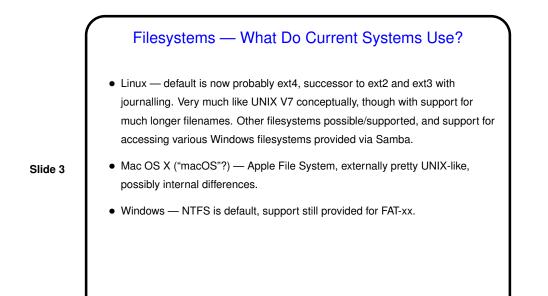
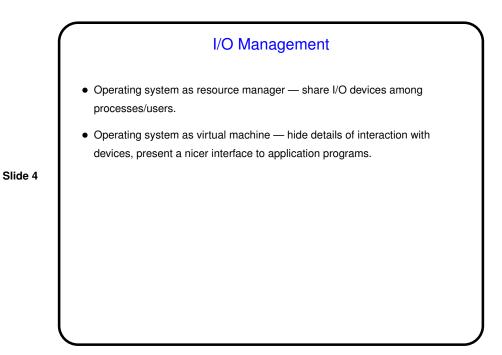
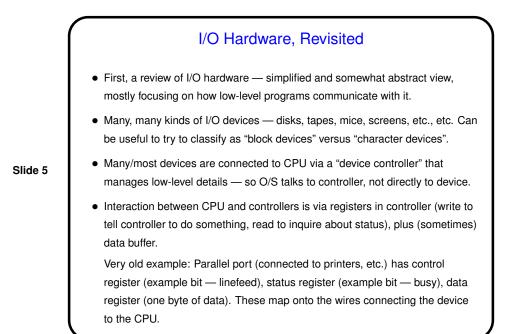
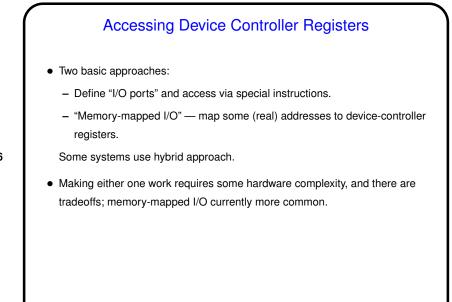


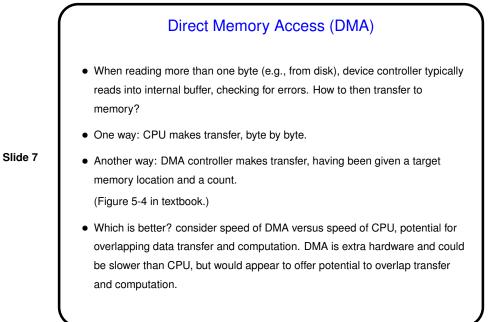
Minute Essay From Last Lecture • One person asked whether Mac OS X uses a UNIX filesystem. According to Wikipedia, no. But no current system uses exactly the filesystem described for UNIX V7 last time.

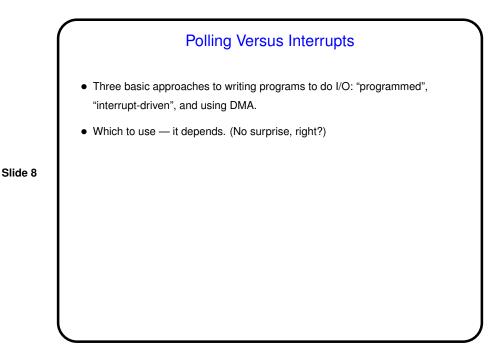


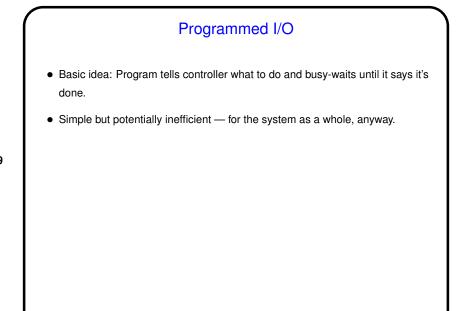


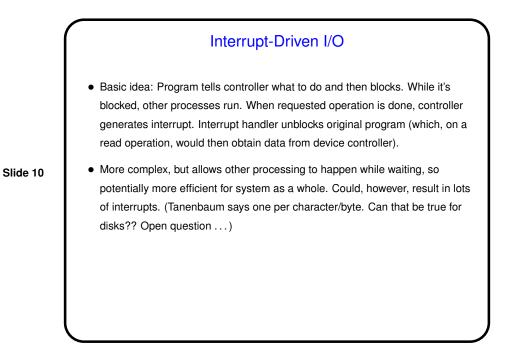


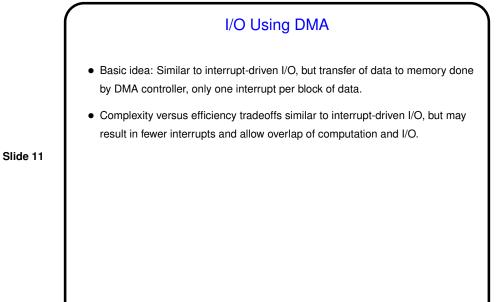


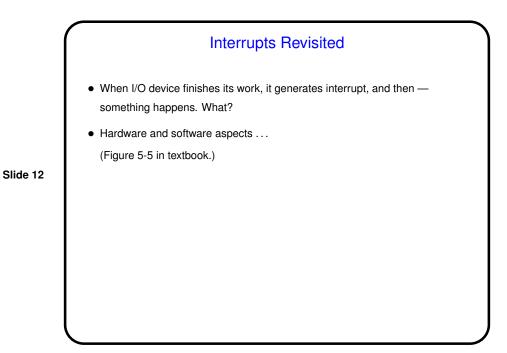


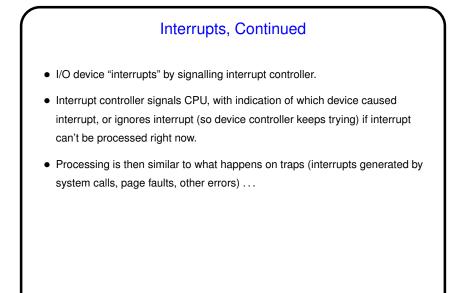




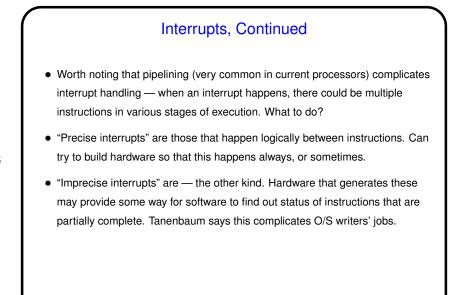


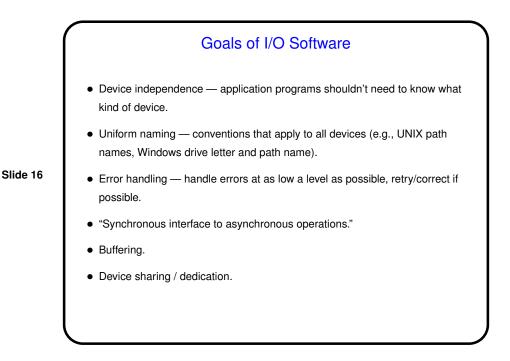


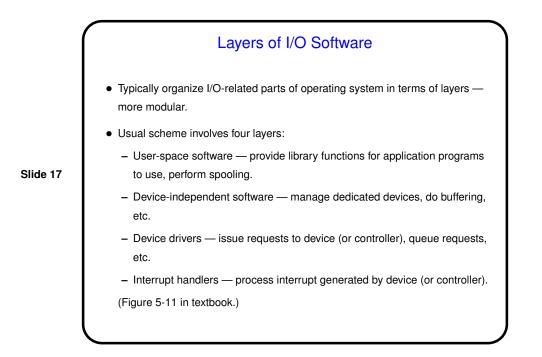


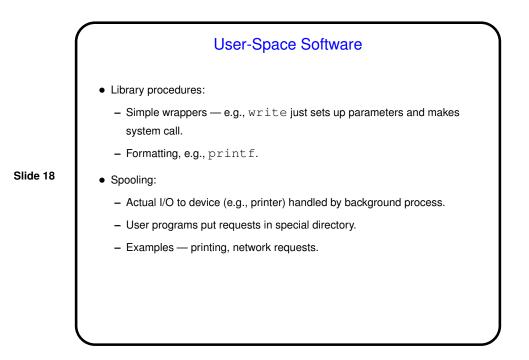


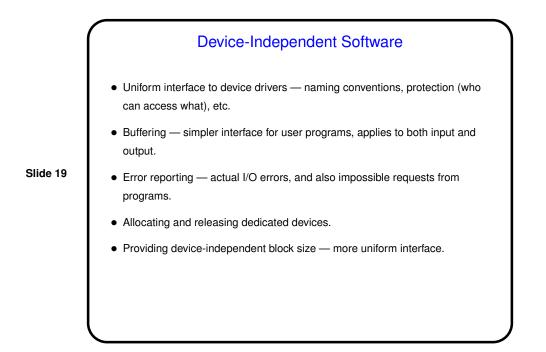
## Interrupts, Continued On interrupt, hardware locates proper interrupt handler (probably using interrupt vector), saves critical info such as program counter, and transfers control (switching into supervisor/kernel mode). Interrupt handler saves other info needed to restart interrupted process, tells interrupt controller when another interrupt can be handled, and performs minimal processing of interrupt.

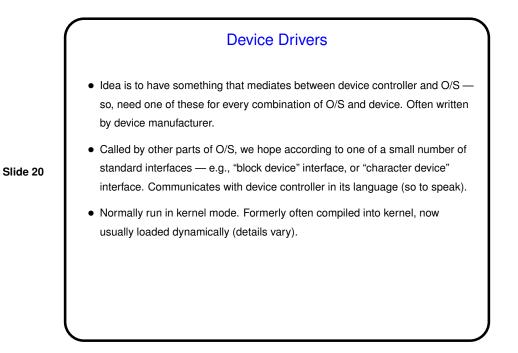


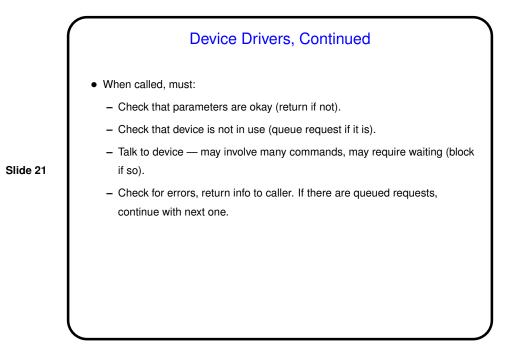












Interrupt Handlers
Background: Something at one of the higher levels has initiated an I/O operation and blocked itself (e.g., using a semaphore). When operation completes, interrupt handler is run.
Interrupt handler must:

Save state of current process so it can be restarted.
Deal with interrupt — acknowledge it (to interrupt controller), run interrupt service procedure to get info from device controller's registers/buffers.
Unblock requesting process.
Choose next process to run — maybe process that requested I/O, maybe interrupted process, maybe another — and do context switch.

