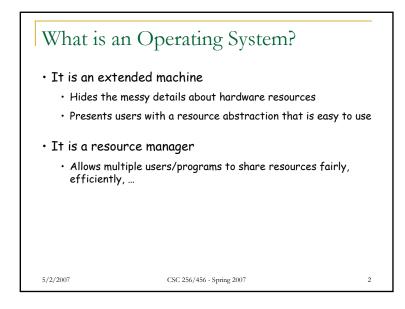
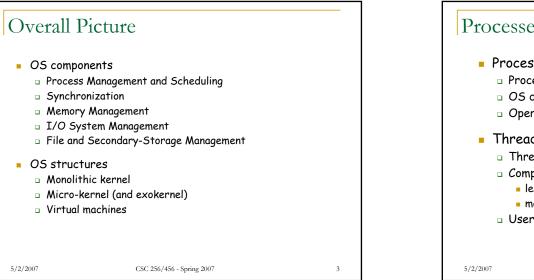
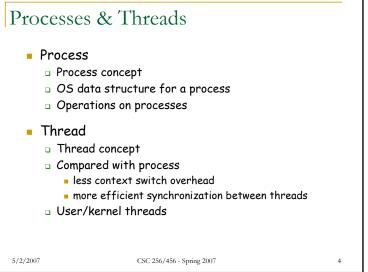
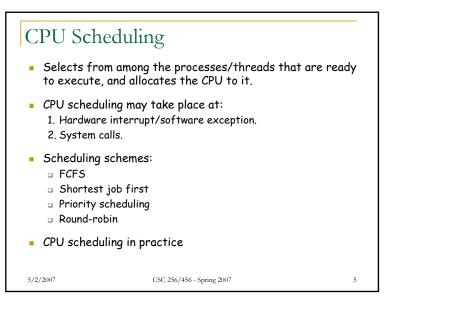
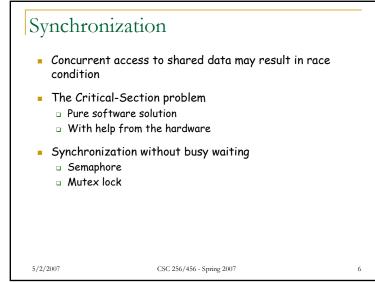
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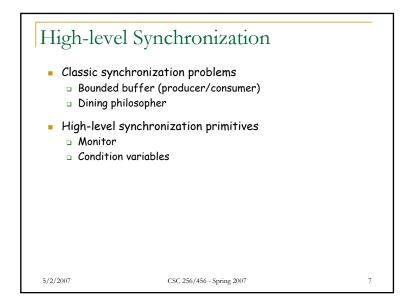


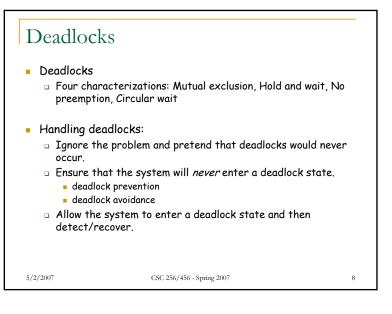


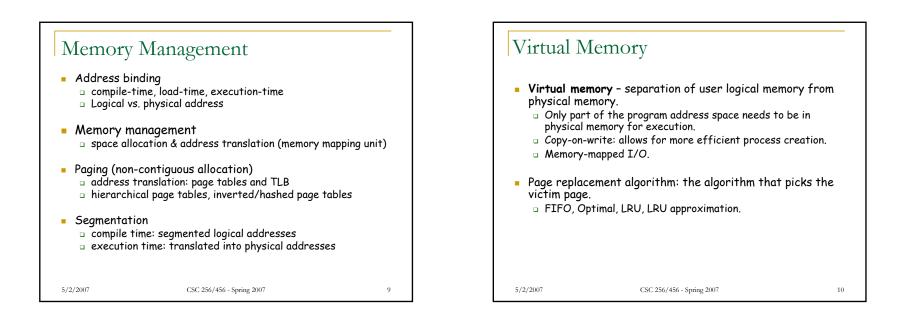


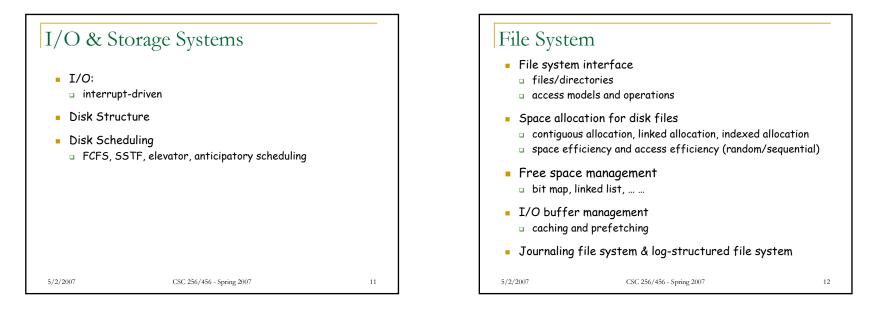


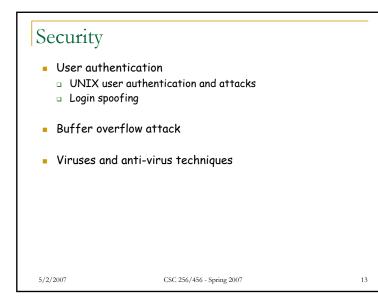






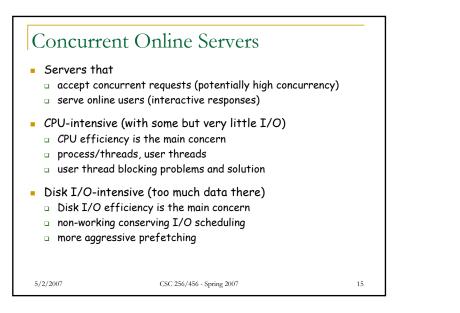






## Protection Operating system consists of a collection of objects, hardware or software (e.g., files, printers) Protection problem - ensure that each object is accessed correctly and only by those processes that are allowed to do so Access control list & capabilities Covert channels

5/2/2007



## Microkernel Microkernel structure: Moves functionalities from the kernel into "user" space. Benefits: Modular design? • More reliable (less code is running in kernel mode) Disadvantage on performance: Tend to have more frequent domain crossings. Two types of micro-kernels: Running user-level OS in a trusted server - Mach Running user-level OS within untrusted user processes -Fxokernel more secure (less trusted code) more flexibility (user-level customization is easy) 5/2/2007 CSC 256/456 - Spring 2007 16

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