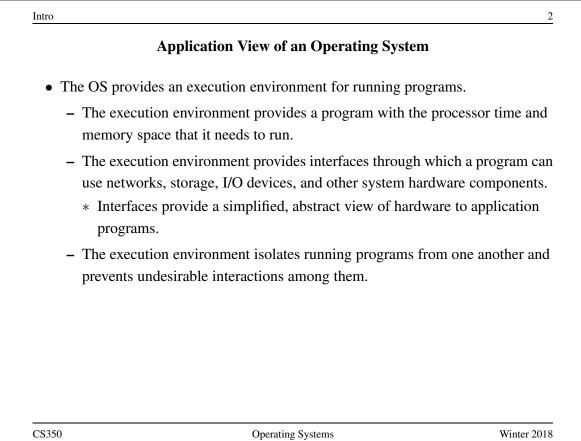
	What is an Operating System?	
• Three views of an	operating system	
Application View	what services does it provide?	
System View: wh	at problems does it solve?	
Implementation V	iew: how is it built?	
An operating syste	m is part cop, part facilitator.	
Thi operating system		



Other Views of an Operating System

System View: The OS manages the hardware resources of a computer system.

- Resources include processors, memory, disks and other storage devices, network interfaces, I/O devices such as keyboards, mice and monitors, and so on.
- The operating system allocates resources among running programs. It controls the sharing of resources among programs.
- The OS itself also uses resources, which it must share with application programs.

Implementation View: The OS is a concurrent, real-time program.

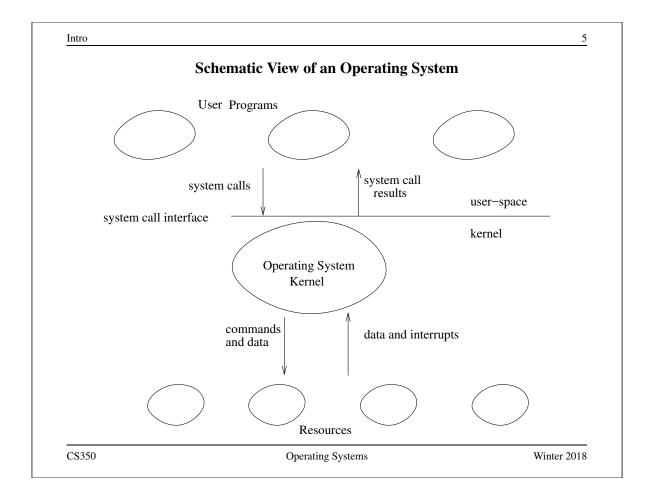
- Concurrency arises naturally in an OS when it supports concurrent applications, and because it must interact directly with the hardware.
- Hardware interactions also impose timing constraints.

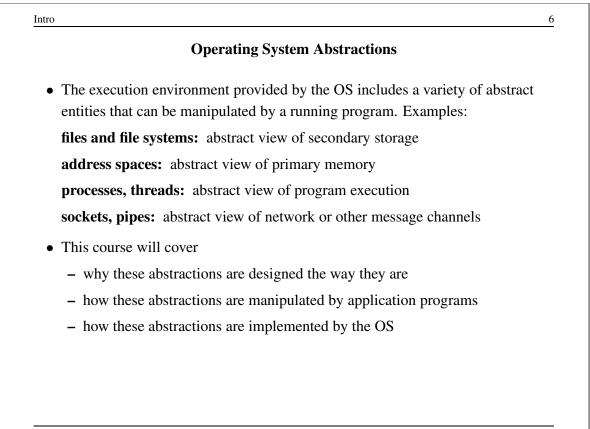
CS350

Operating Systems

Winter 2018

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	Course Outline	
• Introduction		
• Threads and Concur	rrency	
• Synchronization		
• Processes and the K	ernel	
• Virtual Memory		
• Scheduling		
• Devices and Device	Management	
• File Systems		
Interprocess Comm	unication and Networking (time permit	ting)
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