Recap: The Big Picture

- Architectural support for OS

- Kernel service interface

- OS organizational approaches

Today: Processes

Hardware		OS Services
Processor	→	Processes, scheduling, synchronization
Memory	→	Allocation, protection, virtual memory
I/O	→	Disk management, filesystems, networking
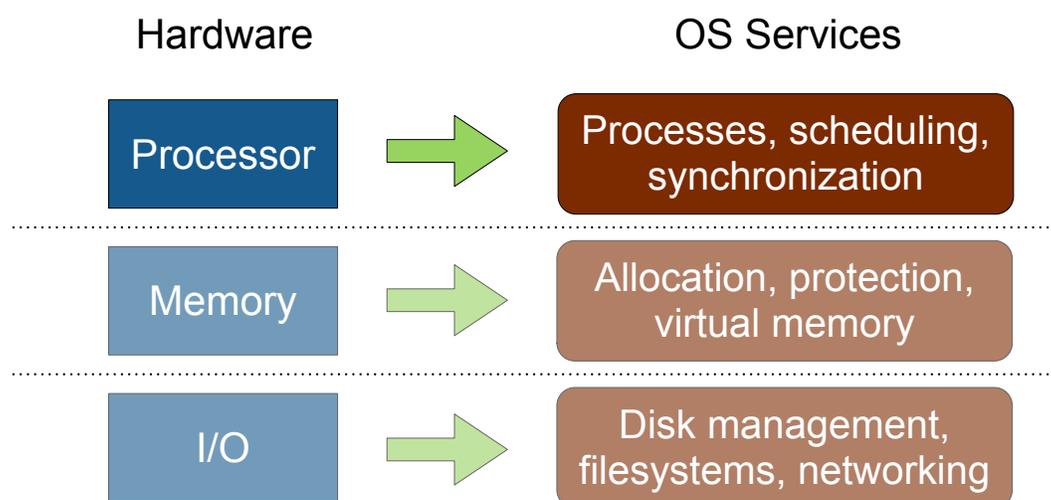
Process Execution States
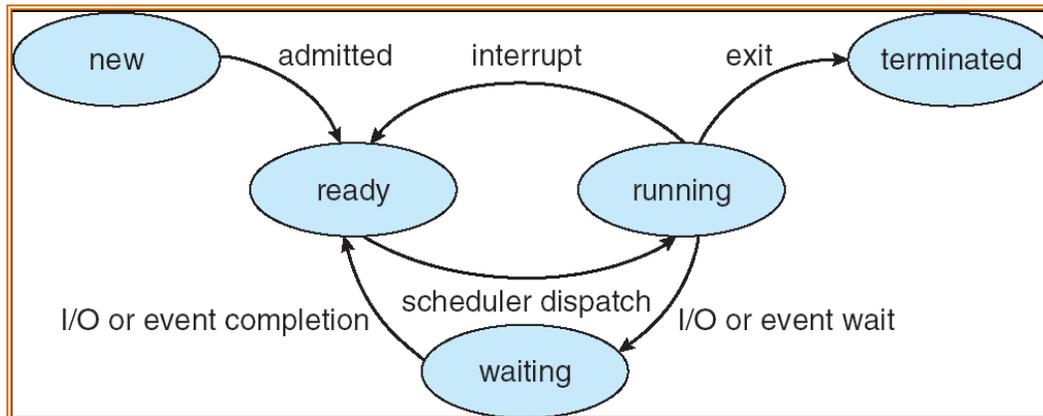
Process Control Block (PCB)

Process State
PC
CPU registers
CPU scheduling info
List of open files
...
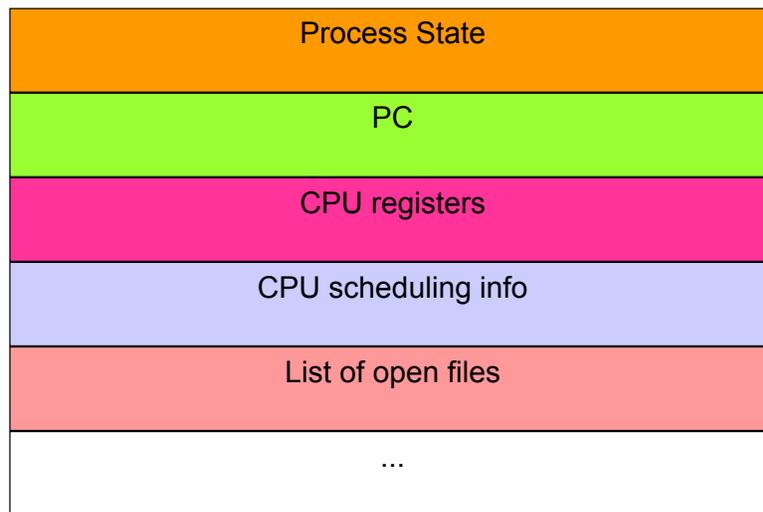
State Queues
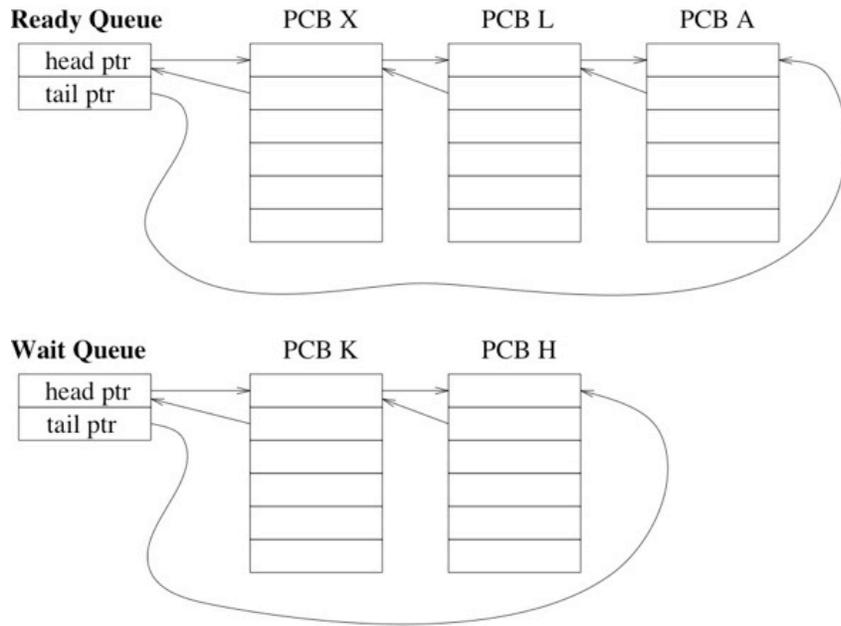
Context Switching
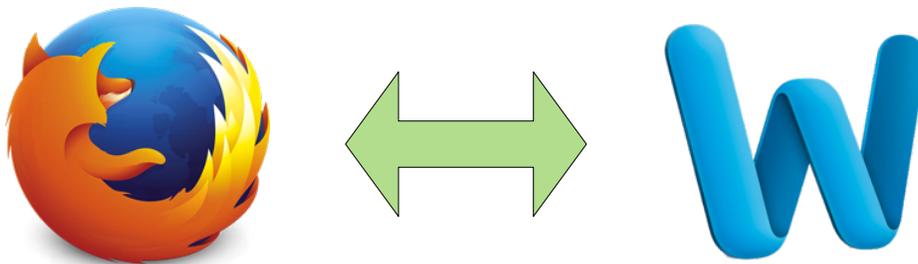
Process Creation

Process Communication
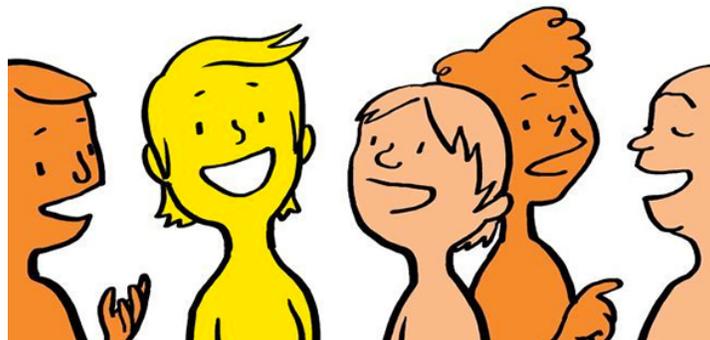
Summary: Processes

- Execution state of a program

- Lifecycle states

- OS representation

- Creation

- Communication