







Non-preemptive vs. Preemptive scheduling

- CPU scheduling decisions may take place when a process:
 - 1. Switches from running to waiting state.
 - 2. Switches from running to ready state.
 - 3. Switches from waiting to ready.
 - 4. Terminates.
- Non-preemptive scheduling takes place under 1 and 4.
 - Once the CPU has been allocated to a process, the process keeps the CPU until it releases CPU.
- Preemptive scheduling takes place in 1,2,3,4.
 - A running process can be preempted by another process
 - Not easy to make OS kernel to support preemptive scheduling
 - How about if the preempted process is updating some critical data structure?
 - Disable interrupt / Safety pointsProcess synchronization





































