

Scheduling

- ▶ Scheduler uses scheduling algorithm to choose a process from the ready queue
- ▶ Scheduling doesn't matter much on simple PCs, because
 1. Most of the time there is only one active process
 2. The CPU is too fast to be a scarce resource any more
- ▶ Scheduler has to make efficient use of the CPU because process switching is expensive
 1. User mode → kernel mode
 2. Save process state, registers, memory map...
 3. Selecting a new process to run by running the scheduling algorithm
 4. Load the memory map of the new process
 5. The process switch usually invalidates the entire memory cache