

# Lecture 8: OS, Process

- Discussion topics
- New ideas welcome!

# Slide 6: Process Descriptor

- What does the processor know about the process in execution?
- Where is PCB when the process is running?
  - In registers, memory, disk?
- Where is PCB when the process is ready-to-run?
  - In registers, memory, disk?
- Where is PCB when the process is waiting?
  - In registers, memory, disk?
- Which registers belong to processor context and why?
  - R4, PC, SR, IR, TR, MBR, MAR, BASE, LIMIT?
  - How do you select registers for processor context?

# Slide 13: OS Implementation

- What advantage do you have for having an OS function as a process instead of as a subroutine?
  - What disadvantage?
- Give examples where control is transferred to OS ...
  - by calling?
  - via interrupt handling?
    - via what type of interrupts?

# Slide 16: OS example, driver

- What advantage would there be that some parts of device driver are executed in user state and some in kernel (privileged) state?