

## Debates/Discussions – Week 3

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- (1) Explain the two benefits of multi-tasking.
- (2) Why do we need so many types of memories (e.g., CPU register, cache, RAM)? What is the advantage?
- (3) Explain the difference between high-level language (HLL), assembly language, and machine language.
- (4) When your program reads a file from disk, then what happens? Use the following terms for your explanation: **I/O request, device driver, device controller, interrupt.**
- (5) What is dual-mode (CPU mode) operation, and why do we need this? Also, explain why system call is used.