

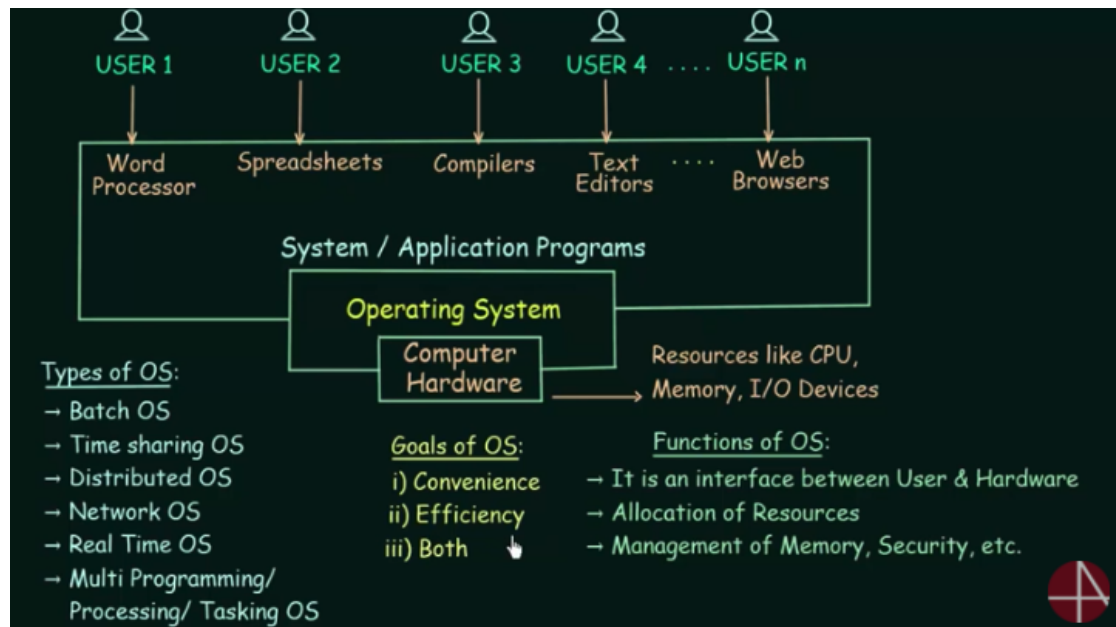
# CSC369 Week 1 Notes

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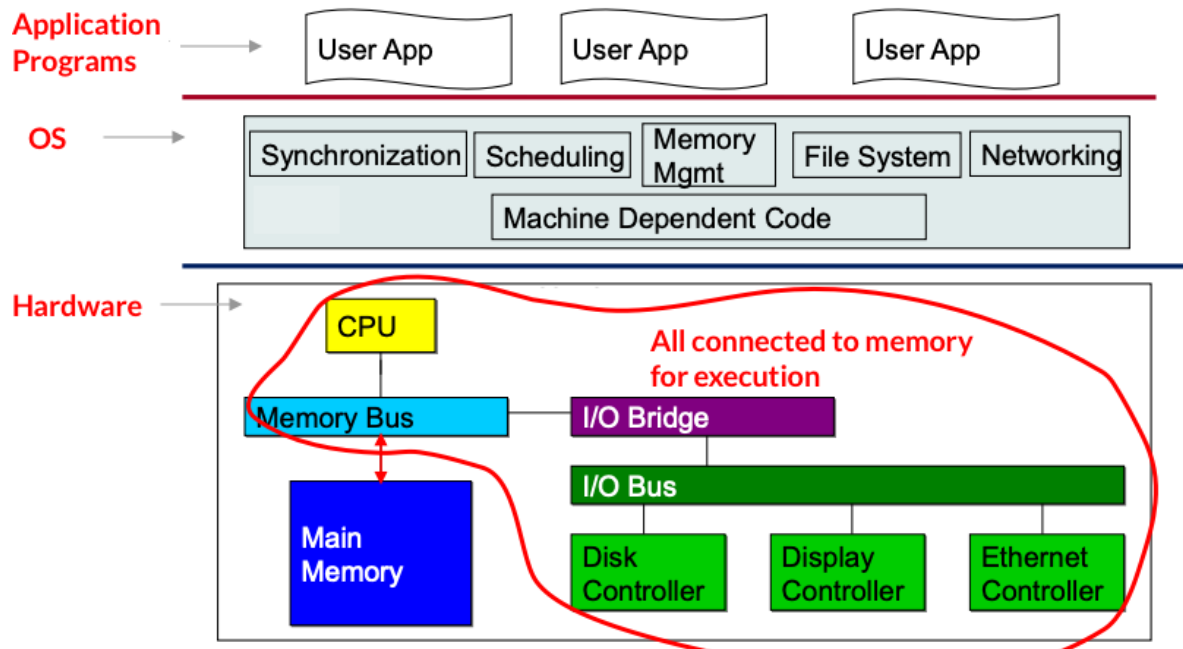
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## 1 Intro to OS

- What is Operating System
  - is the program that manages the computer hardware
  - is the software layer between user applications and hardware
  - is used for
    - \* Allocation of resources
    - \* Management of memory, security, etc.

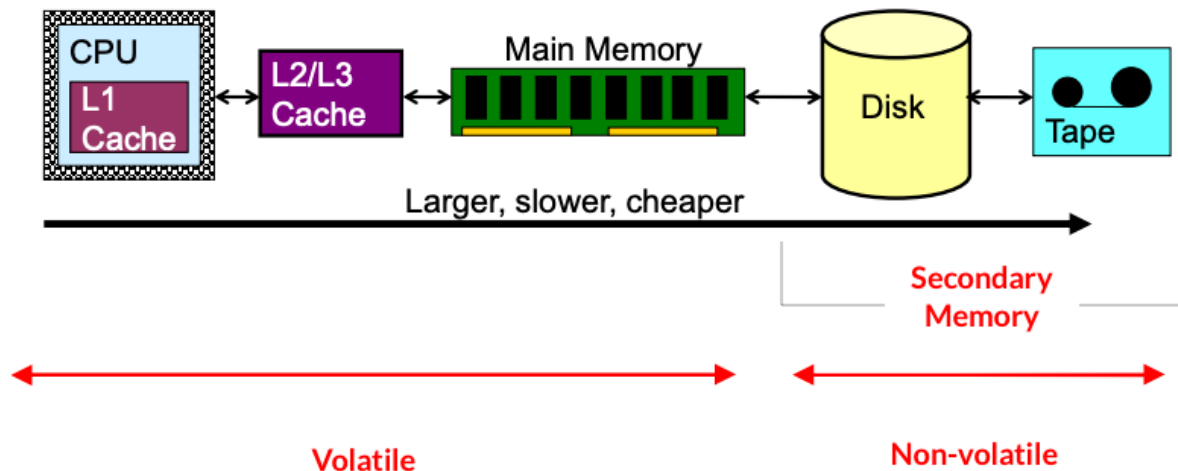


- Overview of Computer System



- All hardware devices are connected through common **bus** and are loaded to memory for execution.
- **Synchronization:** to ensure orderly acces to the shared memory

- Storage Hierarchy / Storage Structure

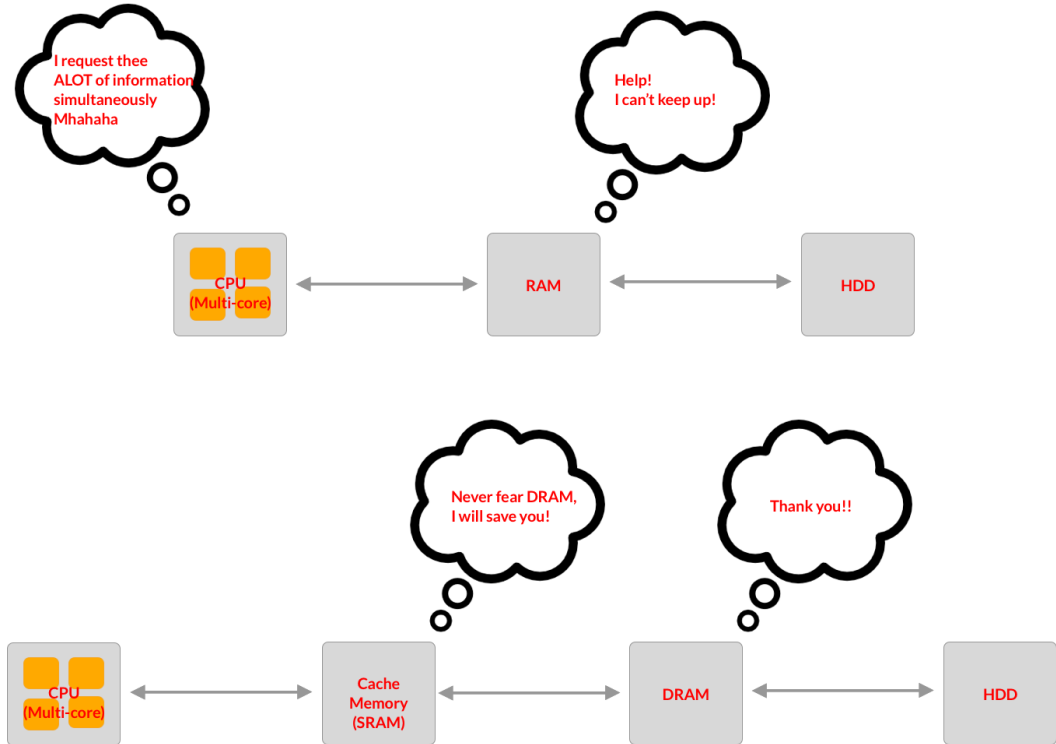


- **Volatile** → Loses contents when power is removed
- **Non-volatile** → Retains contents even when power is removed

- Caching / Cache Memory

- Is also called **Static Random Access Memory (SRAM)**
- Hides performance differences when large access-time gap exists between two levels

\* Quad-quare requesting RAM for information



– More can be found here

- Concurrency
- Aside: C Programming & Memory