

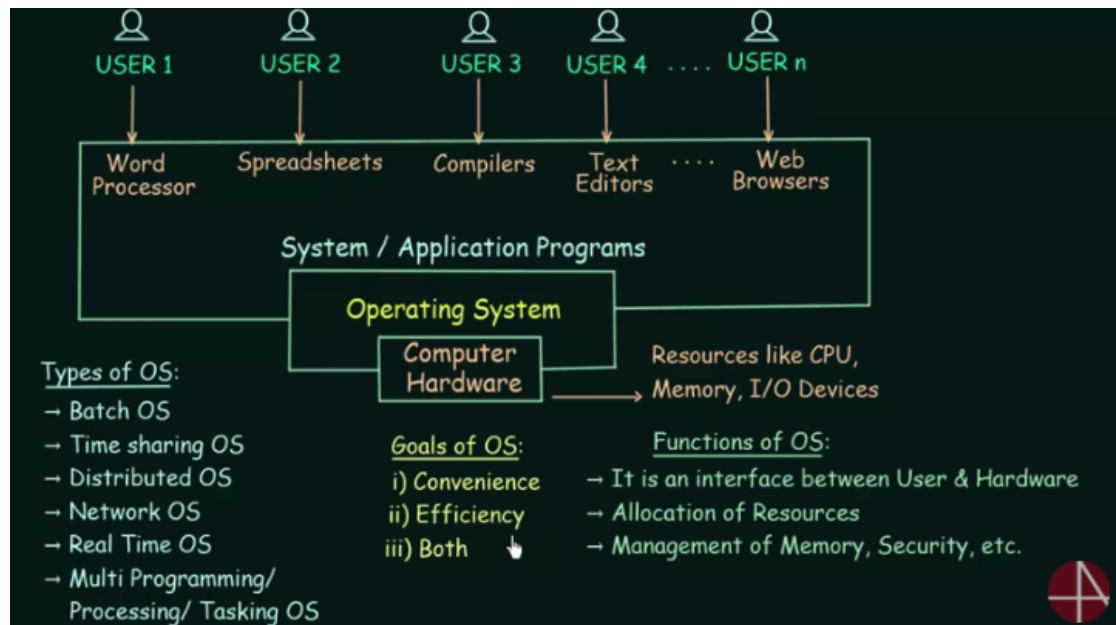
CSC369 Week 1 Notes

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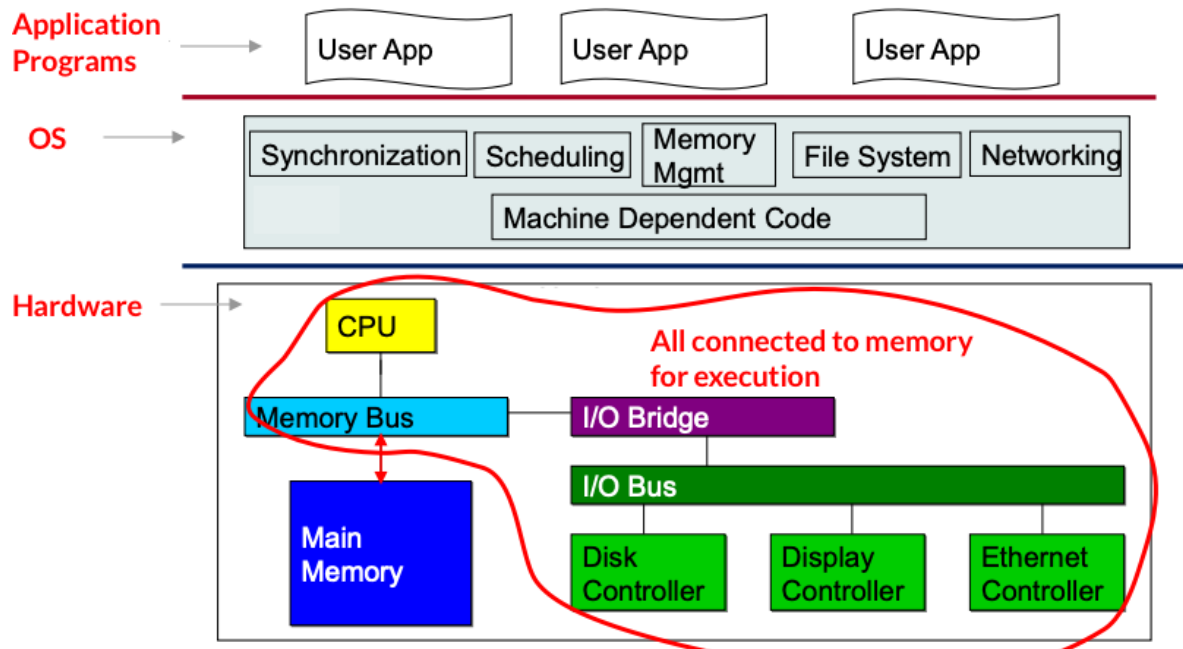
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1 Intro to OS

- 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.

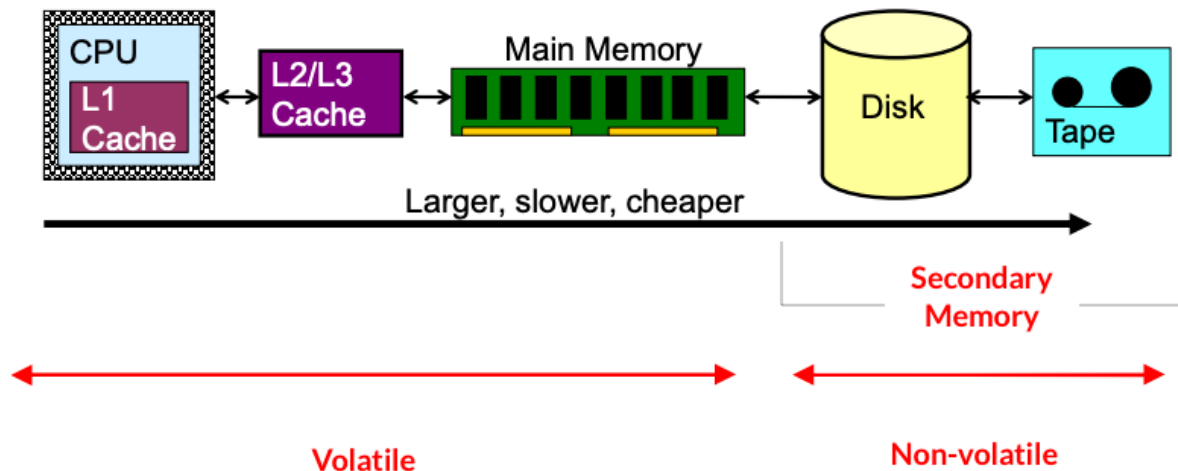


- Overview of Computer System



- 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-queue requesting RAM for information
 - More can be found here
- Concurrency
- Aside: C Programming & Memory