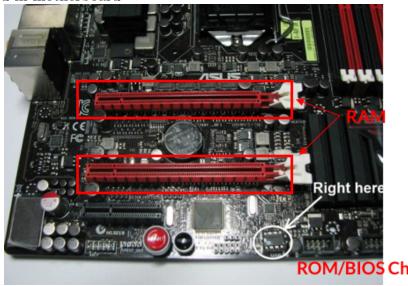
## CSC369 Week 2 Notes

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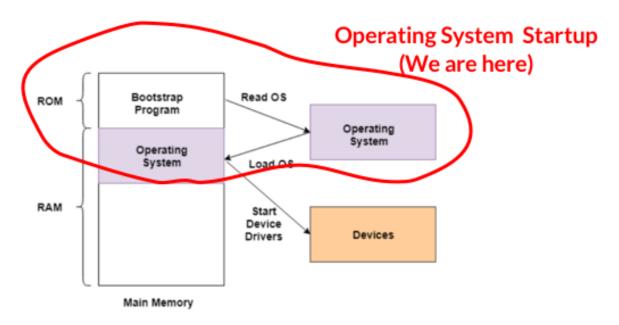
May 19, 2020

## 1 System Calls

- Bootstraping
  - Bootstraping
    - \* Bootstrap Program: is the first code that is executed when the computer system is started
    - \* is the first thing that happen when computer is turned on
    - \* Entires operating system depnds on the bootstrap program to work correctly
    - \* Locates and loads kernel (code of operating system) onto RAM
    - \* Bootstrap program is in ROM
  - ROM
    - \* is called **read-only-memory**
    - \* Is also called **BIOS chip** (Basic Input/Output System)
    - \* is non-volatile
    - \* Knows how to access simple hardware devices
      - · i.e. Disk, keyboard, display
    - \* is stored in motherboard



• Operating System Startup



- is the procedure of starting a computer by loading the kernel onto RAM
  - \* kernel = code of the operating system
  - \* kernel is in HDD
  - \* bootstrap program finds and loads it RAM
- Memory Layout
- Requesting OS Services
- Boundary Crossings
- System Calls for Process Management
- System Calls for File Management