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- In Driver = They can teach Operating System to interact with hardware.

 For example, sound, card, networking cards, USB peripherals, and so on. All of the examples are rely on drives:
- 2. Multiprogramming. Which allow many projects in the memory simultaneously, and CPV can choose which it wants to execute.

Benefit

A: Increase CPU utilization / Memory utilization

B: Increase throughput

C: CPU is never idle

3. Multicore systems => Multiple computing cores rides on a single chip.

[Advantage]

A. The cost of Multicore system is less than Multiprocessor system.

- B. If we need to run a single program, multicore system is faster than multiprocessor system.
- 4. Message-passing model & Share-memory model.

Strongths Vis. Weaknesses

Message-pass model

- · Strenigth
 - A. Exchanging smaller amounts of data

 in no conflit to avoid.
 - B. Easier to implement than sharememory for intercomputer communication.
- · Weaknesses

 A Slower than Sharing-memory model

Sharing - memory model

· Strength.

A. allow maximum speed.

- B. better convenience of communication.
- · Weaknesses.
 - A. Lecurity issue.
 - b. Make sure that they don't write in error memory location

 (Same location simultaneously)

- 5. In loadable kernel modules, we don't need to implement all things in the beginning, we just need to implement when either 05 running or boot up, and implement what they want.
- 6. a. Writing the Operating System source code.
 - b. Configure the Operating System for system on which It will run.
 - C. Compile the Operating System.
 - d. Install the Operating System.
 - er hoot the computer and its new Operating System.
- 7. a. Failure Analysis

description to refreshire to the

- b. Performance moniforing and tuning.
- 8. Core dump: file capturing memory of process.

 Crash dump: file containing kernel memory