資エン乙 408262416 陳葉特

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 the can choose which it wants to execute.

Benefit

A: Increase CPU utilization / Memory utilization

B: Increase throughput

C: CPV is never idle

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

Advantage | Kind of cost?

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.

Strengths Vis. Weaknesses

Message-pass model

- · Strenigth
 - A. Exchanging smaller amounts of data =) no conflit to avoid.
 - B. Easier to implement than share—
 memory 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. Le curity issue.

B. Make sure that they don't write in error memory location

(Same location simultaneously)

In loadable kernel modules, we don't need to implement all things in the beginning, we just need to implement when either 0s running or boot up, and implement what they want. -10

- 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 boot the computer and its new Operating system.
- X a. Failure Analysis and ...?
 - b. Performance moniforing and tuning tuning what?
 - 8. Core dump: file capturing memory of process.

 Crash dump: file containing kernel memory