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Bero

Homework 1

1. What are the three main functional areas of an operating system?

- Time Management: Ensure that multiple processes share limited resources fairly.

- Files: Hide the peculiarities of disks and other I/O devices; present the programmer with a clean model of device-independant files.

- Hardware: The OS should proxy access to the computers resources.

2. Likely not. Though processor families no longer represent a closed ecosystem of compatibility, they still help organize features and performance.

3. Text 1-14 : Key difference between a trap and an interrupt.
   Trap: pg. 21   Interrupt: pg 29

- TRAP switches from user space to the kernel to complete a task. Interrupts are signals to resume operation to complete a task.

4. Text 1;22   Difference between a block special file and character special file.   pg. 43

- Block special files are used to model devices that consist of addressable blocks. Character special files are used to model devices which I/O a character stream.

5. Text 1;24 Can client-server model be used in single computer systems? Pg. 67

9 Yes: "If the client and server run on the same machine, certain optimizations are possible"