

Quiz

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Which of the following is/are true about dual-mode operation?

- ☐ A The operating system must maintain a global bit to represent the current execution mode
- ☐ B Certain operations are not permitted in the kernel mode and will be trapped to the user mode
- ☒ C Three ways to transit from user to kernel mode: system call, interrupt, and exception
- ☐ D Dual-mode operations are needed because applications need to be protected from OS

提交

What are the differences between an interrupt and an exception?

- ☒ A Interrupts are usually asynchronous with the program execution, but exceptions are usually synchronous
- ☐ B Interrupts may happen due to an abnormal condition, but exceptions are typically caused by normal conditions
- ☐ C Interrupts and exceptions are handled in different ways
- ☒ D Interrupts include notifications from devices or hardware components (e.g., APIC) but exceptions do not

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Which of the followings belong to operating system services?

- ☒ A Error detection and handling
- ☒ B Inter-process communication and networking
- ☐ C CPU scheduling
- ☒ D User interface

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