Quiz

March 12, 2024

Which of the followings is/are true about fork()?

A — In the parent process, fork() returns 0; in the child process, fork() returns its own pid.

B — The parent and child process share the same program counter, memory content, and opened files.

C — A process may have more than one parent processes at the same time.

D — Fork() alters the parent process by adding one more process to it children process list.

提交

Which of the followings is/are true about exec()?

A When exec() returns from the calling process, it will continue executing the next instruction.

B Exec() replaces the user-space memory of the process, but keeps the program counter unchanged.

C Exec() keeps the PID of the calling process.

D Calling exec() to load the same program into the memory is equivalent to not calling exec() at all

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Which of the followings is/are true about context switch?

A Coorperative scheduling is preemptive.

B CPU scheduling may happen when the kernel takes control of the CPU.

C During context switch, the system must save the state of the old process and load the saved state for the new process

D Context switch cannot be too frequent, otherwise a high performance overhead may occur.

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