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Operating Systems

Reading 2

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1. What does `fork()` do?

creates a new process, that is a copy of the current process.

2. When a process calls `fork()`, what value is returned to the child? What value is returned to the parent?

0 is returned to the child, and the child's PID is returned to the parent.

3. Which process runs first, the child or the parent?

The parent

4. What does `exec()` do?

executes a new process given the name of an executable and some arguments. a successful call to `exec` does not return. it essentially transforms a process into another. the original memory space of the process is re-initialized for the new process.

5. What does `pipe()` do?

connects the standard output of one process, to the standard input of another process.

6. What is `SIGINT`?

signal used to interrupt/terminate a process (`ctrl-c`).