

Lab 1 Questions

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1 What are the advantages and disadvantages of using the same system call interface for manipulating both files and devices?

There are some notable advantages for using the same system call interface. The first advantage is simplicity. Programmers/Developers would have an easier time learning and using a single set of commands. Another advantage would be reusability, so Programmers/Developers can reuse code, which is better for saving time in the long run.

2 2. Would it be possible for the user to develop a new command interpreter using the system call interface provided by the operating system? How?

Yes, it is possible unless the system is a real-time operating system, which is hard because you have to map out the timing constraints. But without that, it would be possible with an understanding of what a shell is and how to let it interact with the operating system kernel through a system call to allow for commands to be executed.