

Lab One

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1 QUESTIONS

1.1 Q1

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

The advantages of using the same system call interface for the two include being able to utilize abstraction, and allowing basic tasks to be implemented faster. The disadvantage of this approach is because of the generality in manipulating both files and devices, if a more complex task is required this implementation would limit how much functionality you can do.

1.2 Q2

Would it be possible for the user to develop a new command interpreter using the system call interface provide by the operation system? How?

Yes it would be possible and does exist! A shell is essentially a command interpreter (providing users with an interface) which generally use the same system call interfaces and just display them differently. Users can choose which shell they would like to use purely based on one's preference.