

Post Lab Questions

1. What are the advantages and disadvantages of using the same system call interface for manipulating both files and devices?
2. Would it be possible for the user to develop a new command interpreter using the system call interface provide by the operating system? How?

Question 1

Advantages

- All devices added can be accessed as if it is just another file within the system.
- Creates an interface to add new devices as drivers
- Creates a layer of Abstraction for developer/programing

Disadvantages

- Performance can become an issue when many files and devices are attempting to make system calls concurrently.
- Using file context may also result in a loss of functionality

Question 2

Yes, a user should be able to develop a new command interpreter using the system call interface. This can be done by creating user level programs that access system calls. Using the functionality found in the operating system it would be possible for a user to create a new CLI.