Lab One

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1 QUESTIONS

1.1 WHAT ARE THE ADVANTAGES AND DISADVANTAGES OF USING THE SAME SYSTEM CALL INTERFACE FOR MANIPULATING BOTH FILES AND DEVICES?

An advantage to using the same system call interface for both file and devices is the relative ease of adding a new device, because devices are accessed as if they were files. A disadvantage to this is the potential for loss of functionality or performance of devices.

1.2 WOULD IT BE POSSIBLE FOR THE USER TO DEVELOP A NEW COMMAND INTERPRETER USING THE SYSTEM CALL INTERFACE PROVIDED BY THE OPERATING SYSTEM? HOW?

It would be possible for a user to create a new command interpreter using the system call interface provided by the OS. The system call interface provides all necessary functionality for a user to create a new command interpreter, such as process control, file manipulation, device manipulation, information maintenance, communication, and protection.