

Lab One

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1 PROBLEM ONE

1.1 USING THE SAME SYSTEM CALL INTERFACE

An advantage of using the same system call interface to manipulate files and devices is that every device is accessible. The user program code and device driver code can be written to access files the same way devices are accessed and vice versa. A disadvantage is possible loss of functionality or performance of devices when using a file access API.

2 PROBLEM TWO

2.1 CAN THE USER MAKE A NEW COMMAND INTERPRETER?

It is possible for the user to create a new command interpreter using the system call interface from the operating system. The command interpreter lets the user manage and create different processes and allows them to determine how they communicate. This functionality would be available using the system calls of the operating system.