

System Calls

The need for abstraction for accessing resources

How to write a user program like the *Bash* shell that reads keyboard inputs from the user?

- ➔ Read input data from the I/O device directly? But which one?
 - The one connected to the PS2 port?
 - The one connected to the USB?
 - The one connected to the bluetooth?
 - The remote one connected to the network?

How do you synchronize access with other programs using the keyboard as well?

- User programs do not operate I/O devices directly
- ✓ The OS abstracts those functionalities and manage access through **system calls**