

Linux device model

Linux kernel classifies devices

Have following categories:

- bus: corresponds to hardware bus (usb, pci)
- classes: classes of devices
- devices: physical (or virtual) devices

sysfs file system

Kernel maintains virtual file system called sysfs mounted at `/sys`
interface between user space and kernel, more advanced than
`/proc`

Object with properties and actions represented as directory and
files used for reading writing respectively
device model represented in sysfs file system

Subdirectories of /sys:

- **bus**: hardware bus
- **class** device classes
- **devices**: physical devices
- **fs**: file systems
- **module**: module information
- **kernel**: linux kernel