

# Device Drivers Practice Lab - 1

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## Exercise 1

List at least 10 Daemons running in your machine and explain each in one or two lines.

## Command

```
ps -U0 -o 'tty,pid,comm' | grep ^?
```

## Daemons Running in Machine

- **systemd**

systemd is replacement of init, the Unix program which spawns all other processes.

- **kthreadd**

kthreadd is the kernel thread daemon. Creation of new kernel threads is done via kthreadd so that a clean environment is obtained even if this were to be invoked by userspace by way of modprobe, hotplug cpu, etc.

- **ksoftirqd**

ksoftirqd is a per-cpu kernel thread daemon that runs when the machine is under heavy soft-interrupt load. Soft interrupts are normally serviced on return from a hard interrupt, but it's possible for soft interrupts to be triggered more quickly than they can be serviced.

- **kmd**

kmd is key management daemon. The key management daemon is a separate process from algod that is solely responsible for key management.

- **kauditd**

kauditd is a daemon which is the userspace component to the Linux Auditing System. It's responsible for writing audit records to the disk.

- **watchdogd**

watchdogd is an advanced system and process supervisor daemon. By default, it periodically kicks the system watchdog timer (WDT) to prevent it from resetting the system. When a system starts up, watchdogd determines the reset cause by querying the kernel.

- **kthrotld**

controlling IO bandwidth on a request queue by throttling requests.

- **acpid**

acpid is a flexible and extensible daemon for delivering ACPI events. When an event occurs, it executes programs to handle the event. These events are triggered by certain actions, such as:

- Pressing special keys, including the Power/Sleep/Suspend button,
- Closing a notebook lid,
- (Un)Plugging an AC power adapter from a notebook,
- (Un)Plugging phone jack etc.

- **cupsd**

cupsd is a common UNIX printing system daemon. *cupsd* is the scheduler for the Common UNIX Printing System. It implements a printing system based upon the Internet Printing Protocol. If no options are specified on the command-line then the default configuration file */etc/cups/cupsd.conf* will be used.

- **polkitd**

polkitd is PolicyKit daemon. polkitd provides the *org.freedesktop.PolicyKit* D-Bus service on the system message bus. Users or administrators should never need to start this daemon as it will be automatically started by dbus-daemon whenever an application calls into the service.

- **udisksd**

udisksd is The udisks system daemon. The udisksd program provides the *org.freedesktop.UDisks2* name on the system message bus. Users or administrators should never need to start this daemon as it will be automatically started by dbus-daemon or system whenever an application tries to access its D-Bus interfaces.

- **upowerd**

upowerd is UPower Daemon. upowerd provides the *org.freedesktop.UPower* service on the system message bus. Users or administrators should never need to start this daemon as it will be automatically started by dbus-daemon whenever an application calls into the *org.freedesktop.UPower* service.