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Department of Computer Applications

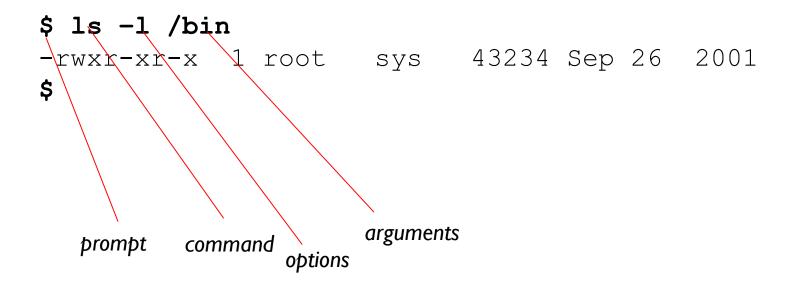


OS Structures & Kernel Programming

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- Shell
 - Read the command
 - Parse the command
- Kernel: Execute the command



- Is list information about files and directories
- mkdir create a new directory
- rmdir remove a directory
- cd change directory
- pwd print the working directory



- touch creates an empty file
- rm removes file
- cat displays the contents of the file
- cat > filename Add contents to a file
- cat >> filename Appends contents to the file
- cp copy one file to another
- mv move the contents to another
- wc counting no of lines



- echo display message on the screen
- clear clear the screen
- date know the date and time
- cal monthly calendar
- who who are users logged in
- whoami tells the user of the computer
- passwd change the password
- gedit open the gedit

Basic Commands

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- exit exit the shell
- man help/manual for a command
- whatis provides simple description of cmd
- tty terminal type

- arch to know the OS bit version
- uname –r to know the linux kernel version
 or cat /etc/os-release
- df H to know the hard disk capacity
- ifconfig ip address of the machine
- echo \$0 shell in which you are working
- cat /etc/shells displays all the shells currently available
- free shows free, total and swap memory information in bytes
- uptime how long your system is running and the number of users are currently logged in



Basic Administrative Commands

- su To switch to different any user
 - \$su <username>
- To switch to root user
 - •\$su -
- To set password for root
 - \$sudo passwd root
- sudo To run one command in super user mode
- users displays currently logged in users.
- service To check/start/stop a service
- /etc/init.d contains callable scripts to configuration database for init process



Basic Administrative Commands

- To install any software
 \$sudo apt-get install hardinfo
- To install gcc

\$sudo apt update

\$sudo apt install build-essential

\$sudo apt-get install manpages-dev (optional)

\$gcc --version





THANK YOU

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