

The Linux Bash Shell

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Commands and Running Programs

- time [command] Show how long system took to execute command
- pwd Print working directory
- **set** Set options for shell
- **exec [program]** Execute a command to replace shell process; when program terminate it terminates the shell
- ./program Rungs program inside of current directory
- Short cuts:
 - CTRL+R Search history
 - CTRL+P Go up command
 - CTRL+N Go down command
 - **CTRL+G** Terminate search function
 - CTRL+S Search forward in history
 - CTRL+A Move cursor to start of line
 - CTRL+E Move cursor to end of line
 - CTRL+B Move backward in line
 - CTRL+F Move forward in line
 - CTRL+D Delete character in line
 - **CTRL+K** Delete whole line
 - CTRL+X+Backspace Delete all character from cursor back
 - CTRL+T Move character down line
 - ESC, C Change character case
 - ESC, U Convert work to uppercase
 - history -c Clear history

Shell Customization

• .bashrc and .bash_profile are the main configuration files for a user's Bash shell

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- Environment variables can be set at the command line: export VARIABLE=value
- unset variable [name] Delete variable

Redirection and Text Manipulation

- > and < Standard output or standard input
- **&>** Create new file for output and error
- **2>> •** Append standard error
- Overwrite with standard error
- Redirection standard output of command before the pipe to the input of the command after the pipe
- tee Read from input and write to standard output and files
- **xargs** Build and execute command lines from standard input
- **cat** Output, or concatenate, one or more files
- join Join lines of two files in a command field
- paste Merge lines of files
- **expand** Convert tabs to spaces
- **od** Dump files in octal format
- **sort** Sort lines of text
- **split** Split file into pieces
- **tr** Translate, squeeze or delete characters from standard input to standard output
- unexpand Convert spaces to tabs
- **uniq** Report or omit repeated lines

Reading and Managing Files

- **fmt** Simple optimal text formatter
- nl Lines in file
- head Output first ten lines of file
 - **-c** Set number of bytes to view

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- -n Set number of lines to view
- tail Output last ten lines of file
- **less** View file in vi-like setting
- cut Print selected parts of file to standard output
- WC Word count
- **sed** Stream editor used to perform basic text transformations