OPERATING SYSTEM

Linux Basic Commands

WC

This command counts the number of newlines, words, and characters in each given files.

• ■ Example:

```
~$ wc OS/file1
10 10 87 OS/file1
~$ wc OS/file1 OS/file2
10 10 87 OS/file1
11 92 546 OS/file2
21 102 633 total
```

WC

Example:

count the number of newlines

count the number of words

```
~$ wc -w OS/file1
```

count the number of characters

•~\$ wc -m OS/file1

Find Files by Name

. The find command is used to search and <u>locate the list of files and</u> <u>directories</u> based on conditions you specify for files that match the arguments

- Example:
 - ~\$ find ~ -name file1
- Search location first characters of file
- ~\$ find ~ -name 'fil*'

grep

- This command finds words in files.
- **Example:**
- Find word 'and' in file1:
 - ~\$ grep and OS/file1
- Find word 'and' in file1 and file2:
 - ~\$ grep and OS/file1 OS/file2
- Find word 'and' in all files of OS directory:
 - ~\$ grep and OS/*

grep

• Find word that start with 'an*' in file1:

```
~$ grep 'an*' OS/file1
```

Find word that you know the first character in file1:

```
~$ grep \^s' OS/file1
```

• Find word that ends with 'es' in line in file1:

```
~$ grep 'es$' OS/file1
```

sort

- This command sorts lines of text files.
- **■** Example:

```
~$ sort OS/file1
```

Sort multiple files:

```
~$ sort OS/file1 OS/file2
```

Sort in a reverse order, and write the result to specific file:

```
~$ sort -r OS/file1 > OS/file3
```

cut -c

 This command prints the selected characters of each line from each file.

• ■ Example:

```
~$ cut -c-3 OS/file1
~$ cut -c-4 OS/file1 OS/file2
~$ cut -c-5 OS/*
```

cat with |tr

- This can be used to replace specific string in files by another string and print the output to screen.
- The content of file will not change

Example:

```
•~$ cat OS/file1 |tr 'and' '***'

•~$ cat OS/file1 OS/file2 |tr 'a' '*'

•~$ ~$ cat OS/* |tr 'and' '*'
```

cat with |tr

• Example:

Convert upper case character to lower:

```
~$ cat OS/file1 |tr 'A' 'a'
```

Convert lower case character to upper:

```
~$ cat OS/file1 |tr 'a' 'A'
```

Convert specific range of characters:

```
~$ cat OS/file1 |tr 'a-d' 'A-D'
```

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 This can be used to perform many commands at the same time.

• ■Example:

- •~\$ cp file1 /tmp && mv file2 /tmp
- •~\$ ls && mkdir OS && date