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**TATA CONSULTANCY SERVICES**

## **vILP – Level 2**

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### **Content Manual**

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## **1. Filters**

### **1.7 cut**

This command cut is used for text processing. You can use this command to extract portion of text from a file by selecting columns.

**Syntax:**

cut -option filename

**Example:**

```
$cat test.txt
cat command for file oriented operations.
cp command for copy files or directories.
ls command to list out files and directories with its attributes.
```

#### **Select Column of Characters**

Extract only a desired column from a file use -c option. The following example displays 2nd character from each line of a file test.txt.

```
$ cut -c2 test.txt
a
p
s
```

As seen above, the characters a, p, s is the second character from each line of the test.txt file.

#### **Select Column of Characters using Range**

Range of characters can also be extracted from a file by specifying start and end position delimited with -. The following example extracts first 3 characters of each line from a file called test.txt

```
$cut -c1-3 test.txt
cat
cp
ls
```

#### **Select Column of Characters using either Start or End Position**

Either start position or end position can be passed to cut command with -c option. The following specifies only the start position before the '-'. This example extracts from 3rd character to end of each line from test.txt file.

```
$ cut -c3- test.txt
t command for file oriented operations.
command for copy files or directories.
command to list out files and directories with its attributes.
```

The following specifies only the end position after the '-'. This example extracts 8 characters from the beginning of each line from test.txt file.

```
$ cut -c-8 test.txt
cat comm
cp comma
ls comma
```

The entire line would get printed when you don't specify a number before or after the '-' as shown below.

```
$ cut -c- test.txt
cat command for file oriented operations.
cp command for copy files or directories.
ls command to list out files and directories with its attributes.
```

### Select a Specific Field from a File

Instead of selecting x number of characters you can combine option -f and -d to extract a whole field,. The option -f specifies which field you want to extract, and the option -d specifies what delimiter that is used in the input file. The following example displays only first field of each lines from /etc/passwd file using the field delimiter: (colon). In this case, the 1st field is the username.

```
$ cut -d':' -f1 /etc/passwd
root
daemon
bin
sys
games
bala
```

## 1.8 *paste*

Tool for merging together different files into a single, multi-column file. In combination with cut, useful for creating system log files.

```
$cat items
Alphabet blocks
Building blocks
Cables

$cat prices
$1.00/dozen
$2.50 ea.
$3.75

$paste items prices
Alphabet blocks $1.00/dozen
Building blocks $2.50 ea.
Cables $3.75
```

## 1.9 *join*

Consider this a special-purpose cousin of paste. This powerful utility allows merging two files in a meaningful fashion, which essentially creates a simple version of a relational database.

The command join operates on exactly two files, but pastes together only those lines with a common tagged field (usually a numerical label), and writes the result to standard output. The files to be joined should be sorted according to the tagged field for the matchups to work properly.

```
$cat 1.data
100 Shoes
200 Laces
300 Socks

$cat 2.data
100 $40.00
200 $1.00
```

300 \$2.00

\$ join 1.data 2.data

100 Shoes \$40.00

200 Laces \$1.00

300 Socks \$2.00