File Processing 2

May 25, 2010

Stream Editor Command

We type **sed –n 2p file** and we see line 2 of the file.

sed –n 2p file

Translator

We type **tr [a-z] [A-Z] < file** and we see the contents of the file in upper case letters.

tr [a-z] [A-Z] < file

We type **tr [A-Z] [a-z] < file** and we see the contents of the file in lower case letters.

tr [A-Z] [a-z] < file

Translator Command - cont

tr –d "acf" < file

We type **tr –d "acf" < file** and we see the contents of the file without the characters a, c, and f.

Translator Command - cont

tr –s "," " " < file

We type **tr –s "," " " < file** and we see the contents of the file with spaces substituted for commas.

Save and Quitting

:w file

Saves the file and allows us to continue working

:x

Quit the file without saving

:q!

Quit the file without saving

Cut Command

cut -f2 -d :file > temp1

We type **cut -f2 -d :file > temp1** to remove the second column of the database (field 2) and store it in the temporary file temp1.

cut -f5 -d :file > temp2

We type **cut -f5 -d :file > temp2** to remove the fifth column of the database (field 5) and store it in the temporary file temp2.

Paste and More Command

paste temp1 temp2 > file

We type **paste temp1 temp2 > file** and we will paste the two columns into a new file.

more file

We type **more file** and we can view the contents of the file.

List and More Command

We type **ls –l /etc | more** and we see a list of the etc folder which is a large directory and we can press the spacebar to see more content

ls – l /etc | more

List in Reverse and More

We type **ls /etc |sort -r | more** and we see a list of the etc folder which is a large directory sorted in reverse and we can press the spacebar to see more content

ls /etc | sort –r | more

Display Lines in a File using Grep

grep text/etc/vnc.conf |more

We type grep, the search word "text", the path and filename and finally the more command to show each section of the results with each press of the spacebar.

Grep and Wildcards

grep programmer /etc/*.txt | more

We type grep, the search word "programmer", the path, an asterisk for the filename (all), the file extension and finally the more command to show each section of the results with each press of the spacebar.

Grep and Wildcards

grep Linux /etc/* | more

We type grep, the search word "Linux", the path and an asterisk for the filename (all) and finally the more command to show each section of the results with each press of the spacebar.

Grep and Phrases

Grep "maximum number" /etc/* | more

We type grep, the search phrase "maximum number", the path and an asterisk for filename (all) and finally the more command to show each section of the results with each press of the spacebar.

List and Wildcards

ls *.txt

We type list and the wildcard * and the file extension. All .conf files will be listed.

Ls /etc/s*.conf

We type list and the files in the etc folder beginning with "s" and ending with any characters. All files beginning with s will be listed.

Duplicate Files

Duplicates the contents of file 1 in file2.

uniq file1 > file2

Compare Files

Compare two file contents with

comm file1 file2

Differences in Files

Differences in two file contents with

diff file1 file2

File Statistics

wc –l file   counts the number of lines in a file

wc –c file   counts the number of bytes in a file

wc –w file   counts the number of words in a file

wc –lcw file   counts the number of lines, character (bytes) and words in a file