Book drafts

**Follow links:**

readlink /bin/sh

readlink -f <file>

**Get working shell info:**

echo $SHELL

echo $BASH\_VERSION

echo $HISTFILE

echo $HISTSIZE

echo $PATH

echo $HOME

echo $UID

echo $GROUPS

echo $SHLVL

**Distribution information:**

uname

uname -r

uname -a

cd

pwd

**check if program command is external or internal:**

type <command>

**Examine the file which will be executed in the current environment:**

which <file>

**Variables:**

$PS1=”NewPrompt”

export $PS1=”KeepPrompt”

**Clear history file:**

history -c

history -w

**Print with non-printing characters:**

cat -v <file>

**Print side by side two text files:**

paste <file1> <file2>

od <option> <file>

split -l 3 <file> <output>

sort -o <newFile> <intputFile>

**Numbering lines:**

nl <file>

**Number empty lines also:**

nl -ba <file>

**Enter - move one line, space - move page**

more

**Enter - move one line, space - move page**

? search backward, / search forward . Next - n, back - b

less

**See first 10 lines**

head <file>

**See first x lines**

head -n x <file>

**See last 10 lines**

tail <file>

**See last x lines**

tail -n x <file>

**Watch log file**

tail -f <file>

**Displays number of lines, words, bytes. Interesting for troubleshooting is -L switch.**

wc <option> <file>

cut

uniq

**Integrity checks**

md5sum <file>

sha512sum <file>

# Regular Expressions

**grep <option> pattern <file>**

-c

-E

-i

-r

-v

**fgrep -f accounts.txt /etc/passwd**

**grep -F -f accounts.txt /etc/passwd**

Basics regular expressions

.

.\*

[a,t,e]

[A-z]

^

$

\

Redirect output - STDOUT

>

Append output - STDOUT

>>

Redirect error - STDERR

2>

Append error - STDERR

2>>

Redirect output and error

&>

Special file:

/dev/null