

More Nuts and Bolts

David Morgan

© David Morgan 2004-11

Chapter 7 & Midterm

- cat
- tac
- cal
- wc
- head/tail
- ctrl-D/C/Z
- filename expansion
- find
- paste
- od / xxd

© David Morgan 2004-11

cat – file content to std output

- `cat Afile Bfile > Cfile`
- `cat /etc/lilo.conf`
- `cat -n`
- `cat -A`

© David Morgan 2004-11

cat – stuff to std output (but where does it get the stuff?)

- `cat` input taken from keyboard (“std input”)
- `cat < filename` file replaces keyboard as input
- `cat filename` input from file
- `cmd | cat` input from another command

© David Morgan 2004-11

tac – spelled like “cat” backward

- Operates like cat backward, too
- prints files in reverse (last line to first)

© David Morgan 2004-11

cal – display a calendar

- cal
- cal 10 1948
- cal -y 1980

© David Morgan 2004-11

wc – word (line/character) count

- `wc <filename>`
- `cat <filename> | wc`

© David Morgan 2004-11

head/tail – file beginning/end

- `head -5 <filename>`
- `tail -5 <filename>`
- `tail +5 <filename>`

© David Morgan 2004-11

Ctrl-D/C/Z keystrokes

- ctrl-C interrupt signal/terminate process
- ctrl-D end-of-file signal for cat, bash, others
- ctrl-Z suspend job from foreground operation

© David Morgan 2004-11

filename expansion metacharacters

- ?
- *
- [akm]
- [a-l]

© David Morgan 2004-11

find – dynamic search & react

- `find <where> <qualifications> <action>`
- `find / -name "w*" -print`
 - where? root directory and below
 - qualifications? filename starts with "w"
 - action? print the filename
- `find . -type f -exec grep -l "yellow" {} \;`
 - where? current directory and below
 - qualifications? regular files (as opposed to eg directories)
 - action? search content for word "yellow" and print matches

© David Morgan 2004-11

cut – remove sections of lines

- `cut -f 2 -d " " <file>`
 - prints 2nd space-delimited column of each line in file

© David Morgan 2004-11

paste – join files

- `paste <file1> <file2>`

© David Morgan 2004-11

od – octal (or hex) dump

```
od -Ad -tx1z <filename>
```

```
<cmd> | od -Ad -tx1z
```

xxd – another hex dumper

```
xxd -g1 <filename>
```

```
<cmd> | xxd -g1
```

© David Morgan 2004-11