

# More Nuts and Bolts

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## Chapter 7 & Midterm

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

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## cat – file content to std output

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

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## 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

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## tac – spelled like “cat” backward

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

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## cal – display a calendar

- cal
- cal 10 1948
- cal -y 1980

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## wc – word (line/character) count

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

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## head/tail – file beginning/end

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

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## 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

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## filename expansion metacharacters

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

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## 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

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## cut – remove sections of lines

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

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## paste – join files

- `paste <file1> <file2>`

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## od – octal (or hex) dump

`od -Ad -tx1z <filename>`

`cmd | od -Ad -tx1z`

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