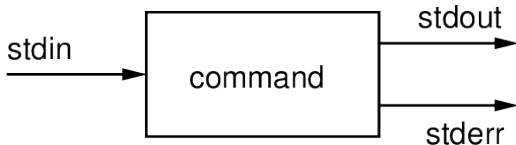# Standard Input, Output and Error

Linux

Sirindhorn International Institute of Technology
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Prepared by Steven Gordon on 5 November 2013
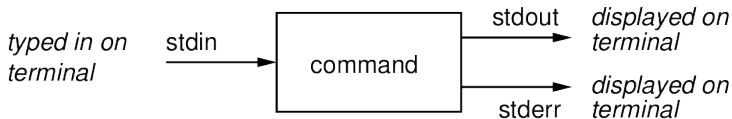Common/Reports/lans-arp.tex, r723

stdin, stdout and stderr

- ▶ stdin: input to a command
- ▶ stdout: normal output by a command
- ▶ stderr: errors output by a command
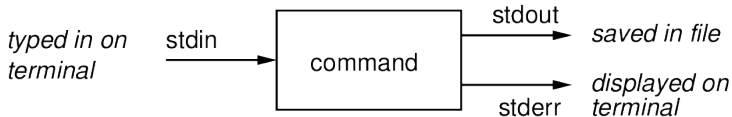
Interacting with Commands on Terminal

$ command

- stdin: typed into the terminal
- stdout: output to the terminal
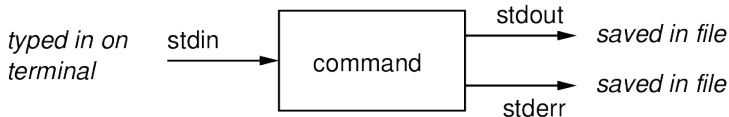- stderr: output to the terminal

Redirecting stdout to a File

$ command > file

- stdin: typed into the terminal
- stdout: written to a file
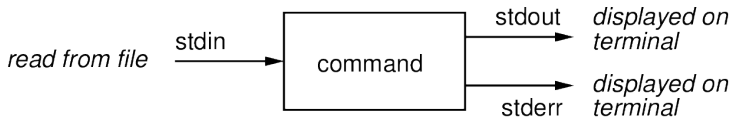- stderr: output to the terminal

Redirecting stdout and stderr to a File

$ command &> file

- ▶ stdin: typed into the terminal
- ▶ stdout: written to a file
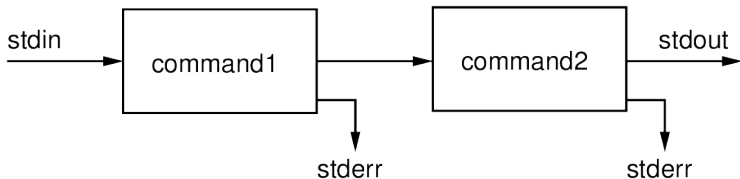- ▶ stderr: written to a file

Redirecting a File to stdin

$ command < file

- ▶ stdin: read from a file
- ▶ stdout: output to the terminal
- ▶ stderr: output to the terminal

Pipe stdout of command1 to stdin of command2

$ command1 | command2

- stdout of command1 is piped into stdin of command2