

ECS150 Discussion Section

<input type="checkbox"/>	Sophie Engle (<i>week of 21 January 2004</i>)
<input type="checkbox"/>	
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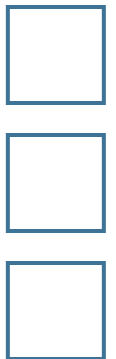
Course Website

<http://wwwcsif.cs.ucdavis.edu/~engle/ta/ecs150-w04/>



TA Information

- Sophie Engle
 - ◆ Email: sjengle@ucdavis.edu
 - ◆ Office Hours: MW 1:30 – 3:30pm
 - ◆ Office: Room 53 (TA Room) Kemper Hall



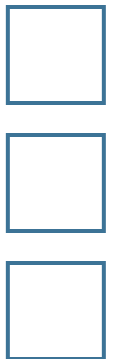
Announcements

- No discussion section on Friday!
 - ◆ Monday classes are being held Friday
- First programming assignment posted
 - ◆ Due 4:59pm January 29th



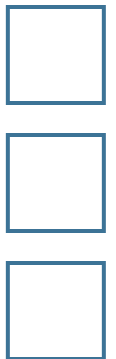
Handin Procedure

- Details on website (in ‘Labs’ section)
 - ◆ Save all files to **lab1** folder on virtual floppy
 - ◆ Compress floppy image
 - Name file **[lastname]-lab1.zip**
 - ◆ Email file to sjengle@ucdavis.edu
 - Use subject “ECS150 Lab 1”
 - Include both group member names in email



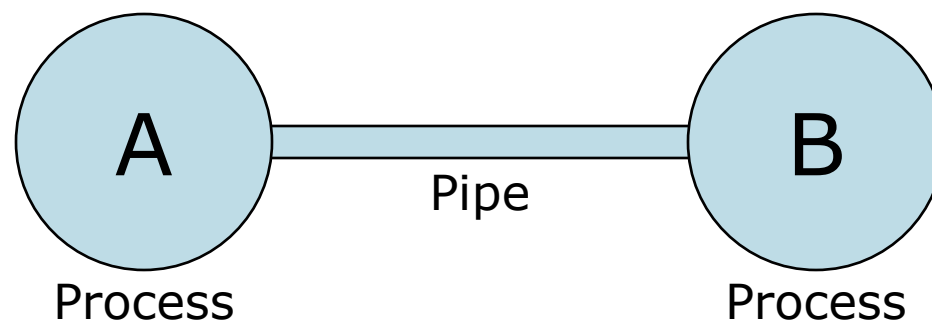
Interactive Grading

- I will mount your floppy image on my laptop
 - ◆ Will have to demonstrate programs on my Minix installation
 - ◆ Prevents students from working on programs after due date
- Will have to signup for grading slot
 - ◆ Signup sheets will be posted outside TA room
 - ◆ You will keep the same slot for rest of quarter



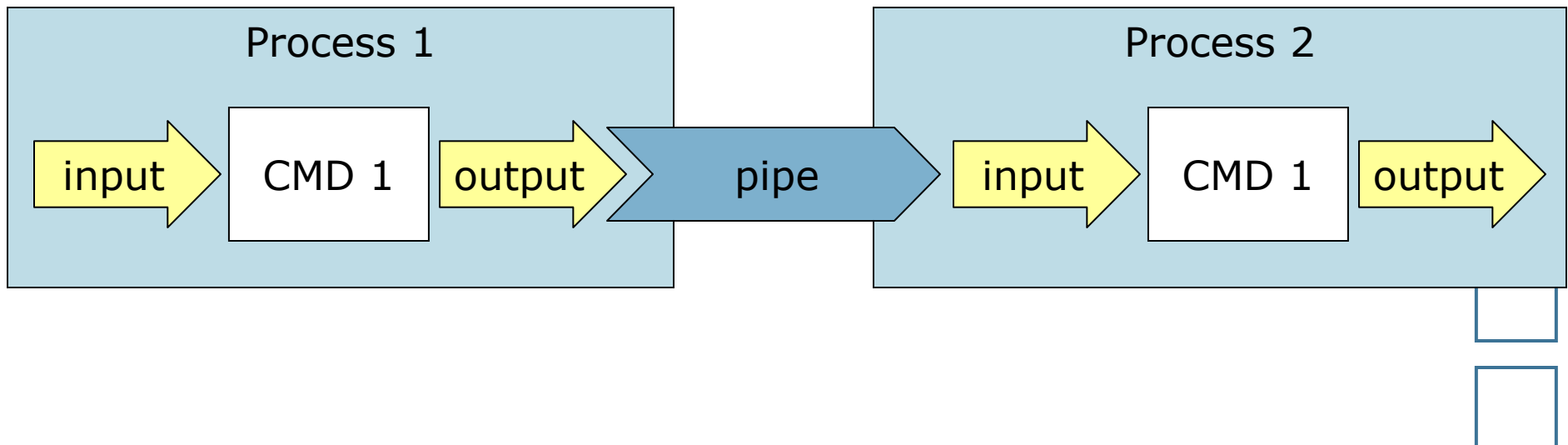
Using pipes

- What is a pipe?
 - ◆ Inter-process communication mechanism
 - ◆ Allows processes to send data/receive data
 - ◆ Implemented as 'pseudo-file' accessible by two processes



Pipe Example

- Want to join two commands together
 - ◆ Output of one command becomes input to second command



Pipe Example

- Will use system calls:

- ◆ `int pipe(int filedes[2]);`

- ◆ `int fork();`

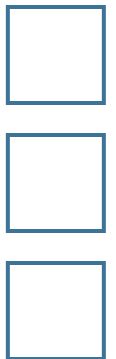
- ◆ `int wait(int *status);`

- Look through code example



What is Bochs? Minix?

- What is Bochs?
 - ◆ A open source emulator written in C++
 - ◆ Capable of running Minix inside emulator
 - ◆ <http://bochs.sourceforge.net/>
- What is Minix?
 - ◆ Miniature Unix clone
 - ◆ Small, microkernel design makes ideal for courses like this
 - ◆ <http://www.cs.vu.nl/~ast/minix.html>



Installing Bochs/Minix

- Detailed guides on website
- On CSIF Computers:
 - ◆ Bochs already installed
 - ◆ May have to worry about quota
 - Contact CSIF Support
<http://wwwcsif.cs.ucdavis.edu/about/contact.html>
- On home computers:



Using Bochs/Minix

- Detailed information on website
 - ◆ Text Editors
 - ◆ Mounting virtual floppy image
 - ◆ Shutting down
 - ◆ Etc...
- Demo!

