

Lecture 2: Pintos OS

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Quote of the Day

Sleep to Remember - Matthew P. Walker, American Scientist, July/August 2006

- “The brain needs sleep before and after learning new things, regardless of the type of memory.
- Naps can help, but caffeine isn't an effective substitute.”

CIS 520 Public Directory

- /pub/CIS520 – public CIS 520 directory available on CIS Systems
 - /pub/CIS520/tools – subdirectory with related tools
 - /pub/CIS520/pintos – reference implementation
 - /pub/CIS520/programs – programming assignments, etc., will go here

TOOLS

- SSH Client – putty.exe

<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

- X11 Server for Windows – Xming

<http://sourceforge.net/projects/xming/>

- IA-32 Emulator – Bochs 2.4.5 or 2.4.6 (current version 2.6.2)

<http://bochs.sourceforge.net/getcurrent.html>

- Open Source Processor Emulator – QEMU

<http://wiki.qemu.org/Download>

Introduction to Pintos

- Pintos – Instructional Operating System
- Why the name “Pintos”?
 - First, like nachos, pinto beans are a common Mexican food.
 - Second, Pintos is relatively small and a "pint" is a small amount.
 - Third, like drivers of the eponymous car, students are likely to have trouble with blow-ups.
- [SIGCSE 2009 Presentation by authors](#)

Administrivia

- **Course web page: K-State OnLine – CIS 520**
<https://online.ksu.edu/Axio/UMS/CourseLogin?course=CIS520>
- **Textbook: Operating System Concepts, 7th-9th ed., by Silberschatz, Galvin, and Gagne**
- **Office: N219D, M,W 10:00-11:30, open door policy**
- **Lectures and Labs:**
 - **Lectures: M,W 11:30 (B), N236, or 1:30 (A), N122**
 - **Labs: F 11:30, N128/N126, or 1:30, N128/N122**

Summary

- Course web page via K-State OnLine has all lecture notes, assignments, handouts, etc.
- Read Ch. 1 – OS Overview
- Obtain CIS Account
- Have a great first week!
- We'll work on Pintos on Friday