

ELEC 88.81 Lab 4 CPU and MB MODIFIED SPRING 2011

1. Use the CMOS SETUP UTILITY to find information about the motherboard
2. Use PC Wizard to Examine a Student PC
3. **EXTRA CREDIT(5 points):** Identify components of the Student PC motherboard.
4. Document the parts/cables you removed from the motherboard

1. Use CMOS Setup to find information about the motherboard.

NOTE: Instructions for this task are on Page 2. and fill out Table 1 System Setup Information

2. Use PC Wizard to Examine a Student PC

On the Lab PC

- a. Open your browser and go to <http://www.cpubid.com/software/pc-wizard/versions-history.html>
- b. Click on the link "PC Wizard" under the "Software" heading in the left column.
- c. Click on the link [2010.1.961 setup](#) under the heading "Version history" in upper left column.
 - i. **NOTE:** If you choose [2010.1.961 ZIP](#) you will get a version that can run from your flash drive without installing it to a computer.
- d. Click on the button "Download now!"
- e. Save it to your flash drive.

On the Student PC

- f. Put the flash drive into your Student PC.
- g. Double-click on the file **pc-wizard_2010.1.961-setup.exe**
 - i. Install PC Wizard. Choose to run it after installation.
- h. PC Wizard will load.
- i. Click on the Mainboard icon to view information about the motherboard.
 - i. Enter information into Table 2.
- j. Click on the Processor icon to view information about the cpu.
 - i. Enter information into Table 3 and 4.

3. EXTRA CREDIT: Identify the main components of the motherboard. Draw a diagram.

Open the cover of the Student PC computer. You may need to disconnect some cables in order to see the components.

Draw a diagram of the motherboard that include the following components:

- a. CPU
- b. RAM
- c. Cmos battery
- d. Expansion Slots (Identify the slots as ISA, PCI, etc.)
- e. Each port coming directly from the motherboard.
- f. Power supply connections
- g. Hard drive connector & floppy drive connector.

Make sure to clearly label each component.

4. Document the parts/cables you removed from the motherboard

- a. On your Computer Repair Work Log, list all of the parts/cables you remove as you remove them.
- b. Use this as a guide to replace them.

Computer Name: Student PC-_____

1. Use CMOS to find Information about the motherboard

- a. Consult GX400 User manual for information about viewing system settings
- b. Go to Advanced Features – System Settings – Entering System Setup
- c. You will find the instructions for entering System Setup
- d. **NOTE:** The mouse will not work in the Setup Utility.
 - i. Use the “System Setup Navigation Keys” chart to navigate the setup utility

System Setup Information

- 1. What key do you hit to enter the CMOS Setup Utility on your PC? _____
- 2. In the main **Setup** screen, you should see system settings. List the current settings for each of the following:

Table 1 System Setup Information

System Setup Information	
Service Tag	
Date	
Time	
Diskette Drive Letter	
Primary Drive 0	
Model	
Primary Drive Type	
Capacity (in GB)	
Primary Drive 1	
Secondary Drive 0	
Secondary Drive 1	
Boot Sequence	1.
	2.
	3.
TOTAL System Memory	

- 1. Hit the **ESC** key to **Exit**. Your PC will reboot.

PC Wizard System Information**Table 2 PC Wizard Mainboard Information**

Mainboard Information	Description
Mainboard	
BIOS	
Chipset	
Physical Memory	

Table 4 PC Wizard Processor Information

CPU Information	Description
Processor	
Frequency	
Support (Socket Type)	
Cache L1	
Cache L2	
Voltage (If available)	
Click on Frequency in the Processor Information window to answer the following:	
Multiplier	
FSB Bus Speed	

EXTRA CREDIT: Motherboard Drawing Draw the components listed in the directions.

