Lab Exercises #4 – *Mainboard*

No submission required.

Introduction

All computing professionals require a familiarity with the insides of a modern computer system, and the best starting point is to simply open a system and begin by identifying the components.

References

Available before, during, and after the lab, the following Internet links can provide you with useful information in identifying the various internal areas of the computer system,

– Jan's Illustrated Computer Literacy: http://www.jegsworks.com/Lessons/lessonintro.htm

– PC Tech Guide (**everything you need to know**): http://www.pctechguide.com/index.htm

– PC Mechanic, "Build Your Own PC": http://www.pcmech.com/byopc/index.htm

Exercises

1. After being assigned a computer station, use the "example mainboard" schematic as a model for creating a diagram of the mainboards for both the <u>server</u> and <u>workstation</u> computers in the station (begin with the server, finish it, <u>then</u> begin with the workstation).

   To examine the mainboards, disconnect the cables from the rear of each computer BUT WRITE DOWN WHERE EACH COMPONENT CONNECTS, and move it to a work table. Remove the correct side panel to examine the internals.

   The diagram you create is for your own knowledge, as well as being used in subsequent labs.

   CAUTION*: These systems are used by more than one class; be careful not to disconnect any connections.*

2. After examining the mainboards of each computer system, and replacing them correctly at the stations, take some time to examine the different hardware components offered for display (ask your instructor before you go "exploring" in the lab).

   In particular, examine the various drives (floppy disk, hard disk, and Compact Disk (CD)). In an upcoming lab, you will be required to install and prepare a hard disk, and install an OS using these drives.

Conclusion

There is nothing to submit for these lab exercises.