CPADS HW Activity II – Part I

“Snap, Crackle, Pop!”

The goal of this second activity is to become familiar with CPU installation. Initially we will practice removing and reinstalling different kinds of CPU’s before attempting it on our good systems. PLEASE ASK IF YOU HAVE ANY QUESTIONS DURING THIS ACTIVITY!

**1. CPU Installation - Practice**

Well now the moment of truth, time to install a CPU and the heatsink/fan **without damaging anything**. Inserting the CPU in the socket was once a harrowing experience (do it wrong and you bend a bunch of pins). Nowadays, almost all CPU sockets are Zero-Insertion-Force (ZIF), meaning you do not need to use any force to seat the CPU – unless, of course, you forget to raise the locking lever!

After placing the CPU in the socket and installing thermal paste (i.e. goo), you need to figure out how to lock the heatsink/fan to the motherboard. Usually it is a good idea to figure this out before applying the goo – dry fitting will not hurt the CPU. Different heatsinks require different techniques, but almost all heatsinks will need a bit of force to get them locked. Some only require your fingers to press down tabs, others have levers that lock after attaching clips to a retention bracket, and still others need a screwdriver to press down and latch clips to the front and back of the socket. Once you get the heatsink/fan locked, give it a little twist to make sure things are seated properly (it would really stink to have it pop off when the machine is running).

Lastly, **REMEMBER TO PLUG IN THE FAN CONNECTOR TO THE MOTHERBOARD** or face the consequences when your CPU overheats!!!

Each row contains different motherboard/CPU combinations. Each person should remove the heatsink/fan and CPU from the motherboard. Complete the table by listing the information about the CPU. Then reinstall the CPU and remount the heatsink/fan (do not apply any thermal compound). Please don't break anything – ASK if you have any questions. Once both people have completed the first motherboard, perform the same tasks for the second motherboard. When you are done, you should have removed/replaced one AMD and one Intel CPU.

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|  | **CPU Manufacturer** | **CPU Family** | **CPU**  **Speed** | **CPU**  **L2 Cache** | **CPU**  **Socket** |
| **Biostar TH55B HD Motherboard** |  |  |  |  |  |
| **Biostar TA790GX Motherboard** |  |  |  |  |  |