**Lab 5.10 Windows Vista/7 Power Options**

**Used Windows 10**

**Objective:**

To be able to control power options via BIOS/UEFI and Windows Vista/7

**Parts:**

Computer with Windows Vista or 7 loaded

**Procedure:**

Complete the following procedure and answer the accompanying questions.

**1.** Power on the computer and ensure it boots properly before the exercise begins.

**2.** Reboot the computer and access BIOS Setup.

List the BIOS/UEFI options related to power management.

AC Recovery, Auto On Time, Deep Sleep Control, Fan Control Override, USB Wake Support, Block Sleep, Intel Ready Mode

Can ACPI be disabled via BIOS/UEFI?

Yes

**3.** Exit the BIOS/UEFI Setup program without saving any settings. Boot to Windows Vista/7.

**4.** Access the current power settings by using the *Start > Control Panel > System and Maintenance* (Vista)*/System and Security (7) > Power Options*.

What power plan is currently configured?

Dell – Says it balances the performance and energy saving.

**5.** Select the *Create a power plan* link on the left. Type a unique name in the *Plan name* textbox. Click *Next*.

Plan Settings:

Turn off the display: 15 Minutes

Put the computer to sleep: Never

**6.** Use the *Turn off the display* drop-down menu to select a time. Use the *Put the computer to sleep* drop-down menu to select a time for the computer to go into reduced power mode. Note that on a laptop computer there will be two columns of choices: *On battery* and *Plugged in*.

Which global ACPI state do you think this would assign? Look back through the chapter to review.

S2

**7.** Click the *Create* button. Notice that your new plan appears in the list of preferred plans. Also notice that the *Show additional plans* reveal arrow might be in the center of the window on the right if someone has hidden the additional plans. Click *Show additional plans*, and other plans are revealed.

**8.** Click the *Change plan settings* link under or beside the plan you just created. Select the *Change advanced power settings* link.

List at least three devices for which you can have power controlled through this Control Panel.

USB Settings, Intel® Graphics Settings, PCI Express

**9.** Expand the USB settings, if possible, and the *USB selective suspend* setting.

What is the current setting?

Enabled

**10.** Expand the *Processor power management* setting, if possible.

What is the minimum processor state?

100%

What is the maximum processor state?

100%

**11.** Expand the *Multimedia* settings, if possible.

What setting(s) is configured with this option?

When Sharing Media, Video Playback quality bias, When Playing Video

**12.** Click the *Cancel* button to return to the Change settings window. Click the *Cancel* button again. Show the instructor or lab assistant your settings.

**13.** To delete a power plan you created (the default ones cannot be deleted), select the radio button for the original power plan. Refer to Step 4, if necessary. Under the plan you created, select the *Change settings for the plan* link. Select the *Delete this plan* link and click *OK*. The plan should be removed from the power options list. Show the instructor or lab assistant that the plan has been deleted.