Suggested corrections to Surface Pro 6 to optimize for Audio operations.
Based on the book '**Glitch Free'** by *Brad Robinson* and other online FAQs.

Power Options

On a Surface Pro 6 running win10 a lot of the advanced Power options are hidden. These next few operations will unhide these advanced options.

Registry Tweak

Press ⊞+**R** and type ***REGEDIT*** ↵

Navigate to ***HKEY_LOCAL_MACHINE -> SYSTEM -> CURRENTCONTROLSET -> CONTROL -> POWER***

On right hand screen double click on ***CsEnabled***

and change the value from 1 to 0. Click ok.

In the same right hand window double click on ***HibernateEnabled*** and make it's value '1'.

Click OK and back out of regedit. Restart Surface Pro.

Additional Power Settings

Click Windows Start button and type ***Power Options*** and select ***Power and sleep***.

On right hand side click ***Additional Power Settings*** and select ***Change plan settings***

Click ***Change Advanced Power Settings***

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The Surface Pro 6 only seems to have one power option…. **Balanced**

Adjust the following as indicated…

Hard Drive

Sets the time to turn off the Hard Drive. If the HDD (or SSD) powers down and is suddenly require it could take time to spin up causing a delay and possible a glitch in the audio. To ensure the HDD power management remains OFF set the ***plugged in*** state (it is assumed that in critical situations the PC will always be **plugged in**) to 0 mins.

- On Battery…. Say 10 minutes
- **Plugged In = 0 mins (sets itself to NEVER**).

Processor Power Management

Like for the HDD, you do not want the CPU to be asleep when it is suddenly required, therefore set both ***minimum*** and ***maximum Processor States*** to 100%…. again for **Plugged in** mode assuming the same situation as for HDD.

- Maximum Processor State
  - On Battery = 10%
  - **Plugged in = 100%**
- Minimum Processor State
  - On Battery = 10%
  - **Plugged in = 100%**

Desktop Slide Show

Changing the desktop slideshow isn't something that is critical for audio operation and will only take CPU time to switch desktop images, so ***disable*** it.

USB SUSPEND

Ideally this should be ***disabled***. Even if USB is not being used for audio (which on the Surface Pro 6 is most certainly is going to be) you do not what the USB interface going to sleep.

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PCI Express

This bus is the primary high speed bus in the PC and connects the CPU to various components in the computer. We do not want this turning off so ***disable*** this feature, especially for ***Plugged in*** state.

Display

Considering that the PC will always be ***plugged in*** for high performance audio applications the display should really never be turned off. Disable this by setting to 0 minutes.

Hibernate and Wake Timers

For audio operations, ideally hibernate should be disabled when ***plugged in*** …. Common sense really. Not sure what wake up timers there might be but these shouldn't come into effect if hibernate and sleep modes are disabled.

Click Apply and OK and back out of Power Management windows.

USB Device Driver

Click ***Start Menu*** and type **Device Manager**. Navigate to ***Universal Serial Bus Controllers*** and Right Click on ***USB Root Hub (USB 3.0)*** and select **Properties.** Select the ***Power Management*** tab and ensure the option…
"*Allow the computer to turn off this device to save power*" is ***UNCHECKED***.

Do the same for ***Generic USB Hub***

ASIO4ALL

Robin Molton (Molten Music Technology) has a few very nice youtube videos on using the Surface Pro 6 for audio applications and on optimizing ASIO4ALL. These are well worth a look.

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