Warning

Increasing speed of the laptop CPU can overheat the laptop, so, without a good cooler below laptop it will simply shut down because of overheat... I am suggesting you buying at least:

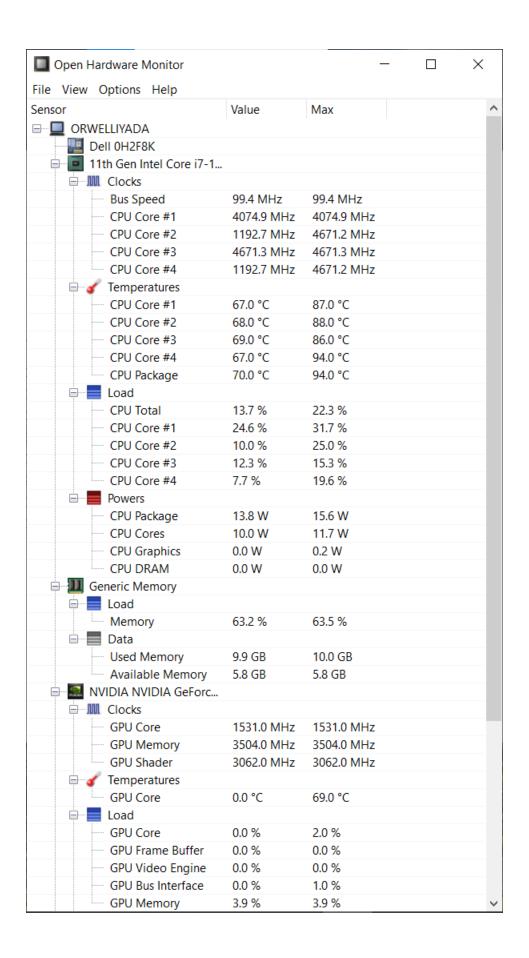
https://www.coolermaster.com/en-global/products/notepal-i300/?tab=tech_spec



Specifications:

- Fan Dimensions (L x W x H)160 x 160 x 15 mm / 6.3 x 6.3 x 0.6 inch
- Fan Speed 700–1400 RPM ± 150
- Fan Airflow 35 70 CFM

Laptop temperatures with this cooler always connected and working are:



How to speed up your processor using Registry Keys

In my example I have a laptop "Dell Vostro 5502" with processor "11th Gen Intel® Core™ i7-1165G7 @ 2.80GHz" working on up to 4.7 GHz where it is for some reason set to work on up to 1.69 GHz with a possible boost up to 2.7 GHz and later on 4.1 GHz (because for some reason Windows doesn't allow the full usage of the CPU)...

In Task Manager you will find this description about the processor:

Base speed: 1.69 GHz

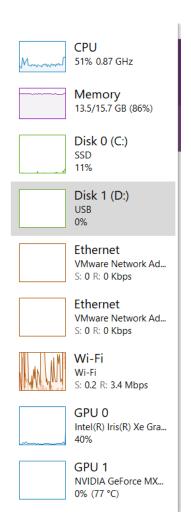
Sockets: 1

Cores: 4

Logical processors: 8

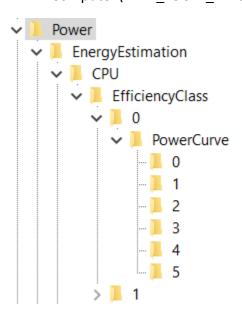
Virtualization: Enabled
L1 cache: 320 KB
L2 cache: 5.0 MB
L3 cache: 12.0 MB

First thing that I was asking is the 2 given options in the Registry Keys for "EfficiencyClass" when I can have 3 if processor is locked on 1.69... The other thing to consider here is enabled energy saver locking that processor on 1.69 GHz, and not on 2.7 GHz... That energy saver with Windows given options shall make this Intel CPU to work on 0.87 GHz and even slower on about 0.4 GHz when the greater CPU consumption and usage comes in place...



First of all to avoid that we need to fix some Registry values and settings:

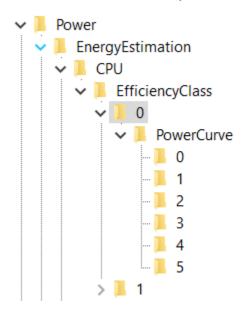
• Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power

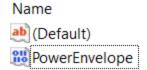


Here I would pay attention what does EnergyEstimationEnabled option... Leave it turned on, because, by some thinking – under the folder EnergyEstimation, but that is my choice...

Name	Type	Data
(Default)	RE	(value not set)
Class 1 Initial Unpark Count	RE	0x00000040 (64)
CustomizeDuringSetup	RE	0x00000001 (1)
EnableInputSuppression	RE	0x00000001 (1)
Energy Estimation Enabled	RE	0x00000000 (0)
EventProcessorEnabled	RE	0x00000001 (1)
## HiberFileSizePercent	RE	0x00000000 (0)
₩ Hibernate Enabled Default	RE	0x00000001 (1)
iii IgnoreCsComplianceCheck	RE	0x00000001 (1)
MfBufferingThreshold	RE	0x00000000 (0)
PerfCalculateActualUtilization	RE	0x00000001 (1)
3 Source Settings Version	RE	0x00000003 (3)
Timer Rebase Threshold On Drips Exit	RE	0x0000003c (60)

• Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\EnergyEstim ation\CPU\EfficiencyClass\0





Type Data

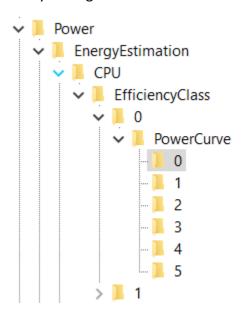
RE... (value not set)

RE... 0x0000125c (4700)

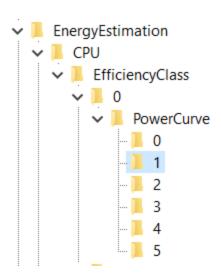
 Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\EnergyEstim ation\CPU\EfficiencyClass\0\PowerCurve\0

Explanation for the values: FrequencyPercent is represented in decimals as a percentage, and PowerEnvelope is represented in HexaDecimal values but through the Decimal values — so for example if you type in the Decimal value "1000" you should see it as is written in HexaDecimal values, which translated gives us 4.096 GHz... You should notice one interesting thing that you can't type in all of the Frequencies for the processor because in hexadecimal values you can write and letters A — F, so for example "A99" would be 2.713 GHz, and here you can write only numbers which means either you would need to agree to processor speed of (in Hexadecimal values) "999" or "1000", which is translated: 2.457 GHz (for "999") or 4.096 GHz (for "1000)...

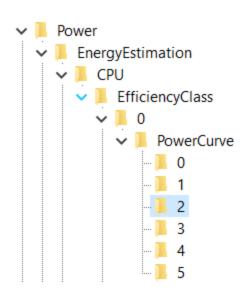
So my setting is:



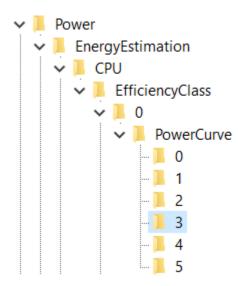
Name	Type	Data
(Default)	REG_SZ	(value not set)
FrequencyPercent	REG_DWORD	0x00000064 (100)
PowerEnvelope	REG_DWORD	0x000003e7 (999)



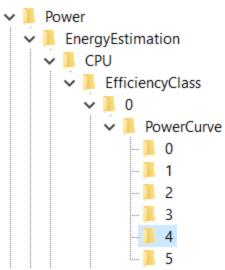
Name	Туре	Data
(Default)	REG_SZ	(value not set)
FrequencyPercent	REG_DWORD	0x00000050 (80)
PowerEnvelope	REG_DWORD	0x000003e8 (1000)





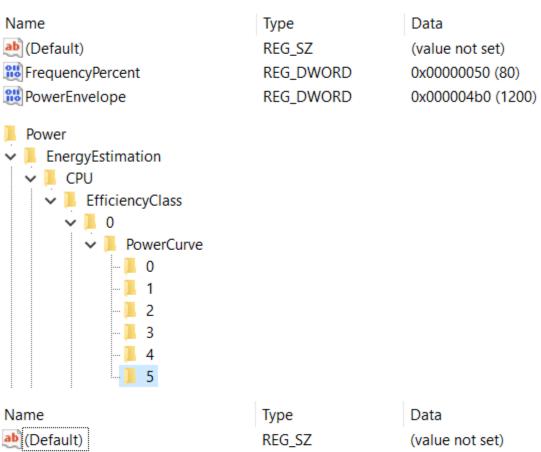


Name	Type	Data
(Default)	REG_SZ	(value not set)
## FrequencyPercent	REG_DWORD	0x00000050 (80)
PowerEnvelope	REG_DWORD	0x0000044c (1100)



FrequencyPercent

PowerEnvelope



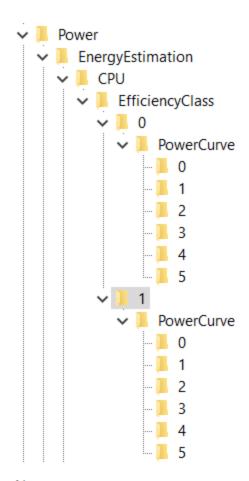
• Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\EnergyEstim ation\CPU\EfficiencyClass\1

REG_DWORD

REG_DWORD

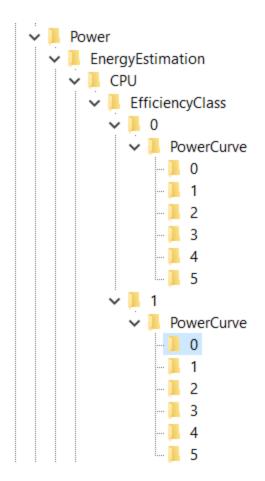
0x00000064 (100)

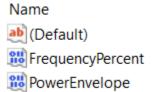
0x000004eb (1259)





Type REG_SZ REG_DWORD Data (value not set) 0x00000999 (2457)



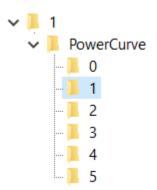


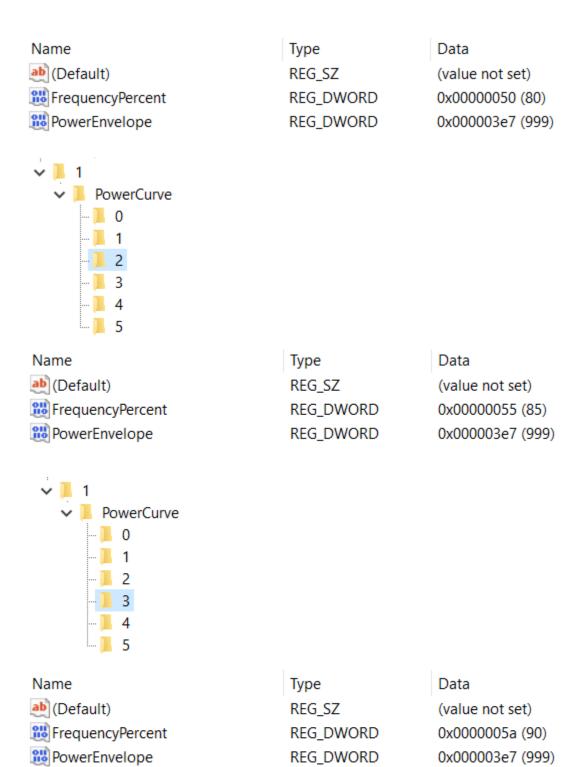
 Type
 Data

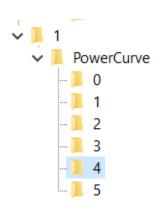
 REG_SZ
 (value not set)

 REG_DWORD
 0x0000004b (75)

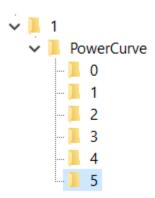
 REG_DWORD
 0x000003e7 (999)





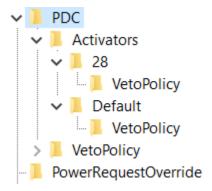


Name	Type	Data
(Default)	REG_SZ	(value not set)
## FrequencyPercent	REG_DWORD	0x0000005f (95)
RowerEnvelope PowerEnvelope	REG_DWORD	0x000003e7 (999)



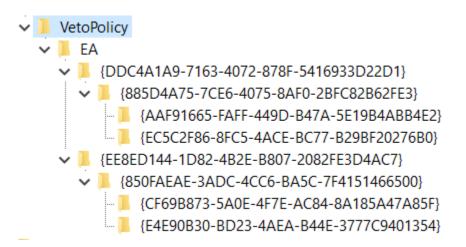
Name	Type	Data
(Default)	REG_SZ	(value not set)
FrequencyPercent	REG_DWORD	0x00000064 (100)
PowerEnvelope	REG_DWORD	0x000003e7 (999)

• Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PDC



Laptop works faster if VetoPolicy options are turned off...

- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PDC\Activat
 ors\28\VetoPolicy
 - EA:PowerStateDischarging: 0
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PDC\Activat
 ors\Default\VetoPolicy
 - EA:EnergySaverEngaged: 0



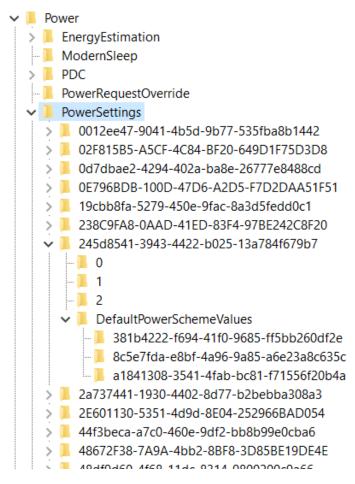
I am not sure if this values represent the maximum speed of the processor but I have placed them all on maximum for my processor:

- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PDC\VetoPolicy\EA\{DDC4A1A9-7163-4072-878F-5416933D22D1}\{885D4A75-7CE6-4075-8AF0-2BFC82B62FE3}\{AAF91665-FAFF-449D-B47A-5E19B4ABB4E2}
 - Type 4121 -> 4700

- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PDC\VetoPolicy\EA\{DDC4A1A9-7163-4072-878F-5416933D22D1}\{885D4A75-7CE6-4075-8AF0-2BFC82B62FE3}\{EC5C2F86-8FC5-4ACE-BC77-B29BF20276B0}
 - Type 4106 -> 4700
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PDC\VetoPolicy\EA\{EE8ED144-1D82-4B2E-B807-2082FE3D4AC7}\{850FAEAE-3ADC-4CC6-BA5C-7F4151466500}\{CF69B873-5A0E-4F7E-AC84-8A185A47A85F}
 - Type 4106 -> 4700
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PDC\VetoPolicy\EA\{EE8ED144-1D82-4B2E-B807-2082FE3D4AC7}\{850FAEAE-3ADC-4CC6-BA5C-7F4151466500}\{E4E90B30-BD23-4AEA-B44E-3777C9401354}
 - Type 4145 -> 4700

You will notice that those folders – "keys" there is a value that has a DWORD named "Value" and that it is turned off, I have placed it to 1...

Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettings



Talking about PowerSettings you need to turn High Performance on, set graphics to work in High performance mode, to set CPU to work by High Performance if you wish on all 3 levels (3 different keys under "DefaultPowerSchemeValues" folder) — because it is unknown in Registry Editor which level is for "Best Battery Life" setting, which is "Balanced" setting, and which is for "Best (High) performance" setting... What I can conclude, for my processor and type of Windows that I have — key: "8c5e7fda-e8bf-4a96-9a85-a6e23a8c635c" represents the "High performance" mode and mostly from that key I have been copying to other two keys it's own already set values... Some keys I have changed completely, adjusting values how I liked...

How this part of the registry works? First you will have a "key" (folder) where you will find options that you can implement under "keys" (folders) 0, 1, 2 and you will have a folder where you can implement those options named: "DefaultPowerSchemeValues"... In those folders you can find the description and a "friendly name" (also a type of a description) of the current part of the Registry Keys... Each of the main folders named for example: "0", "1" or "2" will have some type of a value that you can use later on... That value you will find under a DWORD (data) name "SettingValue"... The best setting whether it's under folder "0", "1" or "2" you

can copy into the "AcSettingIndex" or "DcSettingIndex", or "ProvAcSettingIndex" or "ProvDcSettingIndex"...

In cases where you don't have options under keys (folders) "0", "1", "2", you will have some type of a scale that you can implement... Maximum value of the scale you can find under the main folder and it's DWORD named "ValueMax" and it's possible minimum under a DWORD named "ValueMin"... Always take a look at: DWORD named ValueUnits that will have a description for example: "@%SystemRoot%\system32\powrprof.dll,-81,percent" — there the last word we can find is the word "percent" meaning you should implement in decimal numbers value from 0 to 100 representing some kind of a percentage of a usage for some of the situations...

Some of the settings that I have implemented are:

• Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00

PowerSettings > 0012ee47-9041-4b5d-9b77-535fba8b1442 > 02F815B5-A5CF-4C84-BF20-649D1F75D3D8 0d7dbae2-4294-402a-ba8e-26777e8488cd 0E796BDB-100D-47D6-A2D5-F7D2DAA51F51 19cbb8fa-5279-450e-9fac-8a3d5fedd0c1 238C9FA8-0AAD-41ED-83F4-97BE242C8F20 245d8541-3943-4422-b025-13a784f679b7 2a737441-1930-4402-8d77-b2bebba308a3 2E601130-5351-4d9d-8E04-252966BAD054 44f3beca-a7c0-460e-9df2-bb8b99e0cba6 48672F38-7A9A-4bb2-8BF8-3D85BE19DE4E 48df9d60-4f68-11dc-8314-0800200c9a66 4f971e89-eebd-4455-a8de-9e59040e7347 4faab71a-92e5-4726-b531-224559672d19 501a4d13-42af-4429-9fd1-a8218c268e20 54533251-82be-4824-96c1-47b60b740d00 > 06cadf0e-64ed-448a-8927-ce7bf90eb35d > 06cadf0e-64ed-448a-8927-ce7bf90eb35e 0cc5b647-c1df-4637-891a-dec35c318583 0cc5b647-c1df-4637-891a-dec35c318584 12a0ab44-fe28-4fa9-b3bd-4b64f44960a6 12a0ab44-fe28-4fa9-b3bd-4b64f44960a7 1facfc65-a930-4bc5-9f38-504ec097bbc0

Under power settings you will find the key: "54533251-82be-4824-96c1-47b60b740d00" with "Processor power settings" and you need to see each of the keys (folders) it has and to adjust them except time settings which I haven't changed...

- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\3b04d4fd-1cc7-4f23-ab1c-d1337819c4bb
 - FriendlyName: Allow Throttle States
 - Setting implemented: Off
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\40fbefc7-2e9d-4d25-a185-0cfd8574bac6
 - FriendlyName: Processor performance decrease policy
 - Setting implemented: Single
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\40fbefc7-2e9d-4d25-a185-0cfd8574bac7

- FriendlyName: Processor performance decrease policy for Processor Power Efficiency Class 1
- Setting implemented: Single
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\447235c7-6a8d-4cc0-8e24-9eaf70b96e2b
 - Processor performance core parking parked performance state
 - Best option for the speed of processor: Lightest Performance State
 - My setting implemented: No preference
 - Some theory on that topic: Unused CPUs enter parked state and not to spend energy they can enter Deepest Performance state to save power and reduce the heat... Otherwise faster option is "Lightest Performance state"...
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\45bcc044-d885-43e2-8605-ee0ec6e96b59
 - FriendlyName: Processor performance boost policy
 - All Settings implemented: 0x64 (or Decimal: 100 (%))
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\465e1f50-b610-473a-ab58-00d1077dc418
 - FriendlyName: Processor performance increase policy
 - Setting implemented: Rocket
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\4e4450b3-6179-4e91-b8f1-5bb9938f81a1
 - FriendlyName: Processor duty cycling
 - Setting implemented: Allow processor duty cycling.
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\5d76a2ca-e8c0-402f-a133-2158492d58ad
 - Description: Specify if idle states should be disabled.
 - Setting implemented: Enable idle
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\6c2993b0-8f48-481f-bcc6-00dd2742aa06
 - FriendlyName: Processor idle threshold scaling
 - Setting implemented: Disable scaling

- $\hbox{$ Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\71021b41-c749-4d21-be74-a00f335d582b}$
 - Description: Specify the number of cores/packages to park when fewer cores are required.
 - Setting implemented: Ideal number of cores
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\75b0ae3f-bce0-45a7-8c89-c9611c25e100
 - FriendlyName: Maximum processor frequency
 - Setting implemented: Decimal value: 4700
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\75b0ae3f-bce0-45a7-8c89-c9611c25e101
 - FriendlyName: Maximum processor frequency for Processor Power Efficiency Class 1
 - Setting implemented: Decimal value: 2457
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\7f2f5cfa-f10c-4823-b5e1-e93ae85f46b5
 - FriendlyName: Heterogeneous policy in effect.
 - Setting implemented: Use heterogeneous policy 0

Don't forget to check options for Graphic card:

- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\5FB4938D-1EE8-4b0f-9A3C-5036B0AB995C
 - FriendlyName: GPU preference policy
 - Setting implemented: No preference (because other setting I had was: Low Power)

Check Energy Saving settings:

- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\DE830923-A562-41AF-A086-E3A2C6BAD2DA
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\DE830923-A562-41AF-A086-E3A2C6BAD2DA\5C5BB349-AD29-4ee2-9D0B-2B25270F7A81
 - FriendlyName: Energy Saver Policy
 - Setting implemented: User

Also, you can go back to processor settings and find the "Processor performance increase threshold" and "Processor performance decrease threshold" options, as I know I have changed

some of the percentages, for example from 35 to 20 if is faster and from 45 to 50, but maybe I have pushed it above the edge or below the edge (I am not even sure)... Maybe those settings are fine by themselves...

My options there are in decimal values:

- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\7b224883-b3cc-4d79-819f-8374152cbe7c
 - FriendlyName: Processor idle promote threshold
 - Setting implemented: 14 (20)
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\943c8cb6-6f93-4227-ad87-e9a3feec08d1
 - FriendlyName: Processor performance core parking over utilization threshold
 - Setting implemented: 1e (30)
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\06cadf0e-64ed-448a-8927-ce7bf90eb35d
 - FriendlyName: Processor performance increase threshold
 - Setting implemented: 50 (80)
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\06cadf0e-64ed-448a-8927-ce7bf90eb35e
 - FriendlyName: Processor performance increase threshold for Processor Power Efficiency Class 1
 - Setting implemented: 50 (80)
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\12a0ab44-fe28-4fa9-b3bd-4b64f44960a6
 - FriendlyName: Processor performance decrease threshold
 - Description: Specify the lower busy threshold that must be met before decreasing the processor's performance state (in percentage).
 - Setting implemented: 14 (20)
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\12a0ab44-fe28-4fa9-b3bd-4b64f44960a7
 - FriendlyName: Processor performance decrease threshold
 - Description: Specify the lower busy threshold that must be met before decreasing the processor's performance state (in percentage).
 - Setting implemented: 14 (20)

There is also a setting for "Processor performance boost mode":

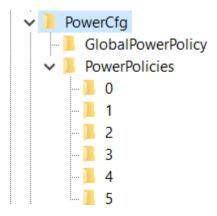
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\be337238-0d82-4146-a960-4f3749d470c7
 - Setting implemented: 5

Set System cooling policy:

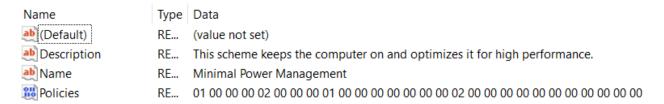
- Computer\HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Power\PowerSettin gs\54533251-82be-4824-96c1-47b60b740d00\94D3A615-A899-4AC5-AE2B-E4D8F634367F\1
 - Setting implemented: Increase fan speed before slowing the processor

Edit the option for Minimal Power Management:

Computer\HKEY_CURRENT_USER\Control Panel\PowerCfg



Here, on my Windows, under a number 4 is:



So just set in the PowerCfg string CurrentPowerPolicy: 4

Graphic cards

This Laptop "Dell Vostro 5502" has also dual graphics cards - integrated "Intel® Iris® Xe Graphics" and "NVIDIA GeForce MX330"... It has 16GB of RAM memory, and 500 GB SSD hard drive...

There is a topic of a small and reducing processor speed thanks to the small "Bus" (an implemented cable for transferring the data in between the graphic card and the other chips), and that because of it (maybe set on 1.3 GHz) and the processor reduces it's speed...

HardwareAcceleration

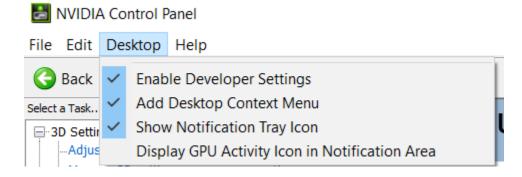
In Registry Editor add the key for removing hardware support for graphics into:

• Computer\HKEY CURRENT USER\SOFTWARE\Microsoft\Avalon.Graphic

Create DWORD named DisableHWAcceleration and set it to the value: 1

NVIDIA Control Panel:

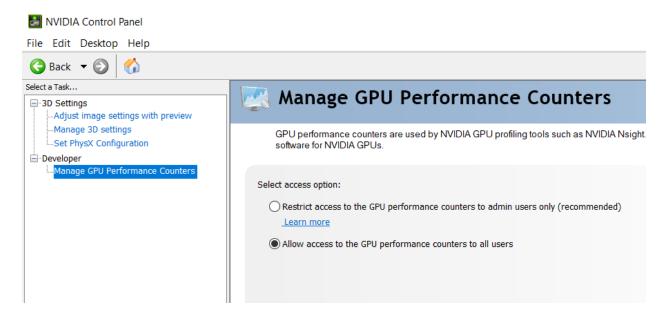
Turn on Developer settings:



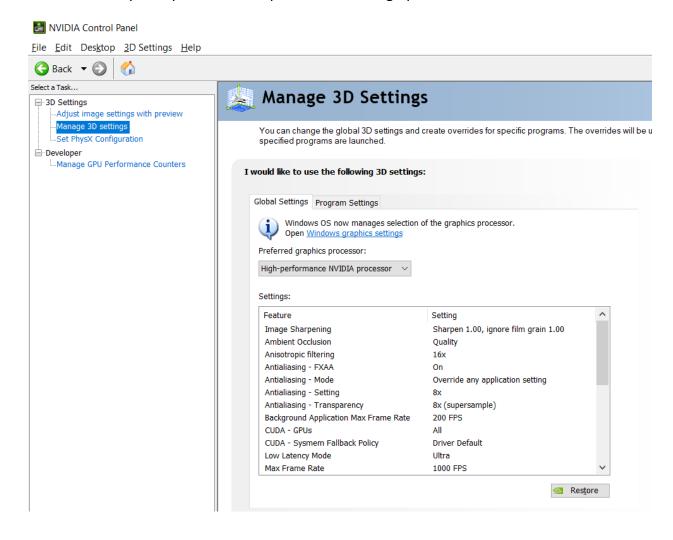
Set PhysX processor to NVIDIA:



Allow this:



And make sure you implement best options for NVIDIA graphic card:



Settings:

Feature	Setting	^
Multi-Frame Sampled AA (MFAA)	On	
OpenGL GDI compatibility	Auto	
OpenGL rendering GPU	NVIDIA GeForce MX330	
Power management mode	Prefer maximum performance	
Shader Cache Size	100 GB	
Texture filtering - Anisotropic sample opti	Off	
Texture filtering - Negative LOD bias	Allow	
Texture filtering - Quality	High quality	
Texture filtering - Trilinear optimization	On	
Threaded optimization	On	
Triple buffering	On	
Vertical sync	Fast	~

Settings:

Feature	Setting	^
OpenGL rendering GPU	NVIDIA GeForce MX330	
Power management mode	Prefer maximum performance	
Shader Cache Size	100 GB	
Texture filtering - Anisotropic sample opti	Off	
Texture filtering - Negative LOD bias	Allow	
Texture filtering - Quality	High quality	
Texture filtering - Trilinear optimization	On	
Threaded optimization	On	
Triple buffering	On	
Vertical sync	Fast	
Virtual Reality pre-rendered frames	4	
Vulkan/OpenGL present method	Auto	~

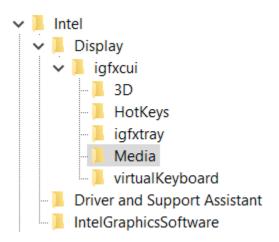
Intel graphics settings:

Let's talk about the Intel graphic card settings... Besides regular settings for brightness, contrast, saturation and hue, there are some more options under Registry Keys that you might find interesting for a better display view...

I believe that here a setting: "Enable..." or "...Enabled" (for example "EnableACE" or SuperResolutionEnabled") doesn't need to have only options 0 or 1, but it can have any possible options, and the point is that you actually play with the display settings and figure out when you

have the best view... I will give you a hint – if you set everything else right – setting the "SkinTone" to a value "3" gives you somehow "a Saint computer user"... So, the conclusion is that you can create anything that you like from these values without needing to restart the computer to see the results...

• Computer\HKEY_CURRENT_USER\SOFTWARE\Intel\Display\igfxcui\Media



My current settings are shown on this image:

Name	Туре	Data
(Default)	REG_SZ	(value not set)
AceLevel	REG_DWORD	0xfcfcfcfc (4244438268)
Enable ACE	REG_DWORD	0xfcfcfcfc (4244438268)
EnableFMD	REG_DWORD	0xfcfcfcfc (4244438268)
EnableIS	REG_DWORD	0xfcfcfcfc (4244438268)
EnableNLAS	REG_DWORD	0xfcfcfcfc (4244438268)
EnableSTE	REG_DWORD	0xfcfcfcfc (4244438268)
EnableSuperResolution	REG_DWORD	0xdfeabcd9 (3756702937)
EnableTCC	REG_DWORD	0xfcfcfcfc (4244438268)
B GCompMode	REG_DWORD	0xccccccc (3435973836)
B GExpMode	REG_DWORD	0xffffffff (4294967295)
InputYUVRange	REG_DWORD	0xffffffff (4294967295)
III NLASHLinear Region	REG_DWORD	0xffffffff (4294967295)
III NLASNonLinearCrop	REG_DWORD	0x00000000 (0)
III NLASVerticalCrop	REG_DWORD	0x00000000 (0)
Noise Reduction Auto Detect Enabl	REG_DWORD	0xffffffff (4294967295)
Noise Reduction Enable Chroma	REG_DWORD	0xffffffff (4294967295)
Noise Reduction Enabled Always	REG_DWORD	0xffffffff (4294967295)
iii Noise Reduction Factor	REG_DWORD	0xffffffff (4294967295)
ProcAmpApplyAlways	REG_DWORD	0xfafbdcfe (4210810110)
ProcAmpBrightness	REG_DWORD	0xfeeeeeef (4277071599)
ProcAmpContrast	REG_DWORD	0xfeeeeeef (4277071599)
ProcAmpHue ProcAmpHue	REG_DWORD	0xfeeeeeef (4277071599)
RrocAmpSaturation	REG_DWORD	0xfeeeeeef (4277071599)
SatFactorBlue	REG_DWORD	0x000000a0 (160)
3 SatFactorCyan	REG_DWORD	0x000000a0 (160)
SatFactorGreen	REG_DWORD	0x000000a0 (160)
3 Sat Factor Magenta	REG_DWORD	0x000000a0 (160)
3 SatFactorRed	REG_DWORD	0x000000a0 (160)
₩ SatFactorYellow	REG_DWORD	0x000000a0 (160)
Sharpness Enabled Always	REG_DWORD	0x77777777 (2004318071)
SharpnessFactor	REG_DWORD	0x123da230 (306029104)
SkinTone	REG_DWORD	0xfedc3210 (4275843600)
SuperResolutionEnabled	REG_DWORD	0xf2da4fed (4074393581)
SuperResolutionMode	REG_DWORD	0xfead0321 (4272751393)
iii UISharpnessOptimalEnabledAlwa	REG_DWORD	0xfedafdaf (4275764655)

My previous settings were not that good:

Name	Type	Data
(Default)	REG_SZ	(value not set)
AceLevel	REG_DWORD	0xacacacac (2896997548)
EnableACE	REG_DWORD	0xacacacac (2896997548)
EnableFMD	REG_DWORD	0xacacacac (2896997548)
EnablelS	REG_DWORD	0xacacacac (2896997548)
EnableNLAS	REG_DWORD	0xacacacac (2896997548)
EnableSTE	REG_DWORD	0xacacacac (2896997548)
EnableSuperResolution	REG_DWORD	0xdfeabcd9 (3756702937)
EnableTCC	REG_DWORD	0xacacacac (2896997548)
B GCompMode	REG_DWORD	0xccccccc (3435973836)
GExpMode	REG_DWORD	0xaaaaaaaa (2863311530)
InputYUVRange	REG_DWORD	0xfffffff (4294967295)
NLASHLinear Region	REG_DWORD	0xffffffff (4294967295)
NLASNonLinearCrop	REG_DWORD	0x00000000 (0)
NLASVerticalCrop	REG_DWORD	0x00000000 (0)
Noise Reduction Auto Detect Enabl	REG_DWORD	0xffffffff (4294967295)
Noise Reduction Enable Chroma	REG_DWORD	0xffffffff (4294967295)
Noise Reduction Enabled Always	REG_DWORD	0xffffffff (4294967295)
Noise Reduction Factor	REG_DWORD	0xfffffff (4294967295)
ProcAmpApplyAlways	REG_DWORD	0xfafbdcfe (4210810110)
ProcAmpBrightness	REG_DWORD	0xfeeeeeef (4277071599)
ProcAmpContrast	REG_DWORD	0xfeeeeeef (4277071599)
ProcAmpHue	REG_DWORD	0xfeeeeeef (4277071599)
ProcAmpSaturation	REG_DWORD	0xfeeeeeef (4277071599)
88 SatFactorBlue	REG_DWORD	0x000000a0 (160)
88 SatFactorCyan	REG_DWORD	0x000000a0 (160)
88 SatFactorGreen	REG_DWORD	0x000000a0 (160)
88 SatFactorMagenta	REG_DWORD	0x000000a0 (160)
88 SatFactorRed	REG_DWORD	0x000000a0 (160)
88 SatFactorYellow	REG_DWORD	0x000000a0 (160)
Sharpness Enabled Always	REG_DWORD	0x77777777 (2004318071)
Sharpness Factor	REG_DWORD	0x123da230 (306029104)
SkinTone	REG_DWORD	0xfedc3210 (4275843600)
SuperResolution Enabled	REG_DWORD	0xf2da4fed (4074393581)
SuperResolutionMode	REG_DWORD	0xfead0321 (4272751393)
iii UISharpnessOptimalEnabledAlwa	REG_DWORD	0xfedafdaf (4275764655)

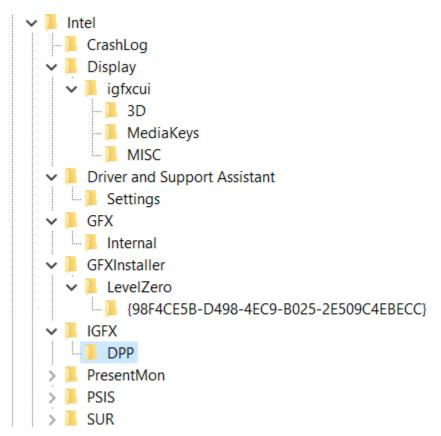
Name	Туре	Data
(Default)	REG_SZ	(value not set)
AceLevel	REG_DWORD	0xeeeeeeee (4008636142)
EnableACE	REG_DWORD	0xfefefefe (4278124286)
EnableFMD	REG_DWORD	0xfefefefe (4278124286)
thableIS	REG_DWORD	0xfefefefe (4278124286)
EnableNLAS	REG_DWORD	0xfefefefe (4278124286)
EnableSTE	REG_DWORD	0xfefefefe (4278124286)
🗓 Enable Super Resolu	REG_DWORD	0x12345678 (305419896)
EnableTCC	REG_DWORD	0xfefefefe (4278124286)
₿ GCompMode	REG_DWORD	0xfefefefe (4278124286)
G ExpMode	REG_DWORD	0xfefefefe (4278124286)
InputYUVRange	REG_DWORD	0xfffffff (4294967295)
NLASHLinearRegion	REG_DWORD	0xffffffff (4294967295)
NLASNonLinearCrop	REG_DWORD	0x00000000 (0)
NLASVerticalCrop	REG_DWORD	0x00000000 (0)
🗓 Noise Reduction Aut	REG_DWORD	0xffffffff (4294967295)
Noise Reduction Ena	REG_DWORD	0xffffffff (4294967295)
Noise Reduction Ena	REG_DWORD	0xffffffff (4294967295)
Noise Reduction Fac	REG_DWORD	0xffffffff (4294967295)
ProcAmpApplyAlw	REG_DWORD	0xfafbdcfe (4210810110)
ProcAmpBrightness	REG_DWORD	0x22222222 (572662306)
ProcAmpContrast	REG_DWORD	0xffffffff (4294967295)
ProcAmpHue	REG_DWORD	0x33333333 (858993459)
ProcAmpSaturation	REG_DWORD	0xeeeeeeee (4008636142)
SatFactorBlue	REG_DWORD	0x000000a0 (160)
SatFactorCyan	REG_DWORD	0x000000a0 (160)
SatFactorGreen	REG_DWORD	0x000000a0 (160)
SatFactorMagenta	REG_DWORD	0x000000a0 (160)
SatFactorRed	REG_DWORD	0x000000a0 (160)
SatFactorYellow	REG_DWORD	0x000000a0 (160)
Sharpness Enabled	REG_DWORD	0x77777777 (2004318071)
SharpnessFactor	REG_DWORD	0x123da230 (306029104)
SkinTone	REG_DWORD	0xfedc3210 (4275843600)
SuperResolutionEn	REG_DWORD	0xdfceabfd (3754863613)
SuperResolutionM	REG_DWORD	0xfead0321 (4272751393)
UISharpnessOptim	REG_DWORD	0xfedafdaf (4275764655)

Name	Туре	Data
(Default)	RE	(value not set)
# AceLevel	RE	Oxeeeeeee (4008636142)
Rib EnableACE	RE	Oxfefefefe (4278124286)
RableFMD	RE	0xfefefefe (4278124286)
EnableIS	RE	0xfefefefe (4278124286)
EnableNLAS	RE	0xfefefefe (4278124286)
EnableSTE	RE	Oxfefefefe (4278124286)
EnableSuperResolution	RE	0x12345678 (305419896)
EnableTCC	RE	Oxfefefefe (4278124286)
B GCompMode	RE	0xfefefefe (4278124286)
B GExpMode	RE	0xfefefefe (4278124286)
iii InputYUVRange	RE	0xffffffff (4294967295)
RLASHLinear Region	RE	0xffffffff (4294967295)
NLASNonLinearCrop	RE	0x00000000 (0)
RLASVerticalCrop	RE	0x00000000 (0)
Noise Reduction Auto Detect Enabled Always	RE	0xffffffff (4294967295)
Noise Reduction Enable Chroma	RE	0xffffffff (4294967295)
Roise Reduction Enabled Always	RE	0xffffffff (4294967295)
Roise Reduction Factor	RE	0xffffffff (4294967295)
Reproced the procedure of the procedure	RE	0xfafbdcfe (4210810110)
Reproced the procedure of the procedure	RE	0x22222222 (572662306)
Reproced the procedure of the procedure	RE	0xffffffff (4294967295)
!!! ProcAmpHue	RE	0x33333333 (858993459)
RrocAmpSaturation	RE	0xeeeeeee (4008636142)
SatFactorBlue	RE	0x000000a0 (160)
86 SatFactorCyan	RE	0x000000a0 (160)
₩ SatFactorGreen	RE	0x000000a0 (160)
8 SatFactorMagenta	RE	0x000000a0 (160)
₩ SatFactorRed	RE	0x000000a0 (160)
SatFactorYellow	RE	0x000000a0 (160)
the Sharpness Enabled Always	RE	0x77777777 (2004318071)
SharpnessFactor	RE	0x123da230 (306029104)
8 SkinTone	RE	0xfedc3210 (4275843600)
SuperResolution Enabled	RE	0xf6f5f4f3 (4143314163)
38 SuperResolutionMode	RE	Oxfefefefe (4278124286)
UISharpnessOptimalEnabledAlways	RE	0xfedafdaf (4275764655)

Name	Type	Data
(Default)	RE	(value not set)
AceLevel	RE	Oxfefefefe (4278124286)
tnableACE EnableACE	RE	0xfefefefe (4278124286)
tnableFMD	RE	0xfefefefe (4278124286)
EnableIS	RE	0xfefefefe (4278124286)
EnableNLAS	RE	0xfefefefe (4278124286)
EnableSTE	RE	0xfefefefe (4278124286)
tnableSuperResolution	RE	0xfefefefe (4278124286)
tnableTCC	RE	0xfefefefe (4278124286)
## GCompMode	RE	0xfefefefe (4278124286)
## GExpMode	RE	0xfefefefe (4278124286)
tinputYUVRange	RE	0xfffffff (4294967295)
NLASHLinear Region	RE	0xfffffff (4294967295)
NLASNonLinearCrop	RE	0x00000000 (0)
NLASVerticalCrop	RE	0x00000000 (0)
Noise Reduction Auto Detect Enabled Always	RE	0x00000001 (1)
NoiseReductionEnableChroma	RE	0x00000001 (1)
Noise Reduction Enabled Always	RE	0x00000001 (1)
NoiseReductionFactor	RE	0xfffffff (4294967295)
RrocAmpApplyAlways	RE	0x00000000 (0)
ProcAmpBrightness	RE	0x00000000 (0)
RrocAmpContrast	RE	0x3f800000 (1065353216
RrocAmpHue	RE	0x00000000 (0)
RrocAmpSaturation	RE	0x3f800000 (1065353216
SatFactorBlue SatFactorBlue	RE	0x000000a0 (160)
SatFactorCyan	RE	0x000000a0 (160)
SatFactorGreen	RE	0x000000a0 (160)
🔐 SatFactor Magenta	RE	0x000000a0 (160)
8atFactorRed	RE	0x000000a0 (160)
SatFactorYellow	RE	0x000000a0 (160)
Sharpness Enabled Always	RE	0x00000001 (1)
SharpnessFactor	RE	0x123da230 (306029104)
SkinTone	RE	0xfedc3210 (4275843600
SuperResolutionEnabled	RE	0xf2da4fed (4074393581
SuperResolutionMode	RE	0x324defdf (843968479)
UISharpnessOptimalEnabledAlways	RE	0x00000001 (1)

There is one more thing to add:

• Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Intel\IGFX\DPP



Name	Type	Data
(Default)	REG_SZ	(value not set)
m Disable DPPTem	porarily REG_BINARY	00 00 00 00
EnableHardware	3DLUT REG_DWORD	0x12312123 (305209635)

Edit DWORD: "EnableHardware3DLUT", set value: "12312123"