Power Efficiency Diagnostics Report

Computer Name	**ETHANSNEWPC**
Scan Time	**2024-03-11T14:19:49Z**
Scan Duration	**60 seconds**
System Manufacturer	**ASUS**
System Product Name	**System Product Name**
BIOS Date	**12/13/2023**
BIOS Version	**3405**
OS Build	**22621**
Platform Role	**PlatformRoleDesktop**
Plugged In	**true**
Process Count	**193**
Thread Count	**3435**
Report GUID	**{4998e1e4-b314-4887-909f-1215826c9d63}**

Analysis Results

Errors

Power Policy:Power Plan Personality is High Performance (Plugged In)
The current power plan personality is High Performance when the system is plugged in.

Power Policy:Display timeout disabled (Plugged In)
The display is not configured to turn off after a period of inactivity.

Power Policy:Sleep timeout is disabled (Plugged In)
The computer is not configured to automatically sleep after a period of inactivity.

Power Policy:Minimum processor performance state is 100% (Plugged In)
The processor is not configured to automatically reduce power consumption based on activity.

Power Policy:PCI Express ASPM is disabled (Plugged In)
The current power policy for PCI Express Active State Power Management (ASPM) is configured to Off.

USB Suspend:USB Device not Entering Selective Suspend
This device did not enter the USB Selective Suspend state. Processor power management may be prevented when this USB device is not in the Selective Suspend state. Note that this issue will not prevent the system from sleeping.

Device Name	**USB 2.0 BILLBOARD**
Host Controller ID	**PCI\VEN_1022&DEV_43EC**
Host Controller Location	**PCI bus 2, device 0, function 0**
Device ID	**USB\VID_2109&PID_8883**
Port Path	**9,5**

USB Suspend:USB Device not Entering Selective Suspend
This device did not enter the USB Selective Suspend state. Processor power management may be prevented when this USB device is not in the Selective Suspend state. Note that this issue will not prevent the system from sleeping.

Device Name	**LIGHTSPEED Receiver**
Host Controller ID	**PCI\VEN_1022&DEV_43EC**
Host Controller Location	**PCI bus 2, device 0, function 0**
Device ID	**USB\VID_046D&PID_C547**
Port Path	**12**

USB Suspend:USB Device not Entering Selective Suspend
This device did not enter the USB Selective Suspend state. Processor power management may be prevented when this USB device is not in the Selective Suspend state. Note that this issue will not prevent the system from sleeping.

Device Name	**USB Composite Device**

Host Controller ID	**PCI\VEN_1022&DEV_43EC**
Host Controller Location	**PCI bus 2, device 0, function 0**
Device ID	**USB\VID_0951&PID_16A4**
Port Path	**11**

USB Suspend:USB Device not Entering Selective Suspend

This device did not enter the USB Selective Suspend state. Processor power management may be prevented when this USB device is not in the Selective Suspend state. Note that this issue will not prevent the system from sleeping.

Device Name	**Generic USB Hub**
Host Controller ID	**PCI\VEN_1022&DEV_43EC**
Host Controller Location	**PCI bus 2, device 0, function 0**
Device ID	**USB\VID_2109&PID_2817**
Port Path	**9**

USB Suspend:USB Device not Entering Selective Suspend

This device did not enter the USB Selective Suspend state. Processor power management may be prevented when this USB device is not in the Selective Suspend state. Note that this issue will not prevent the system from sleeping.

Device Name	**USB Composite Device**
Host Controller ID	**PCI\VEN_1022&DEV_149C**
Host Controller Location	**PCI bus 10, device 0, function 3**
Device ID	**USB\VID_1532&PID_026B**
Port Path	**2**

USB Suspend:USB Device not Entering Selective Suspend

This device did not enter the USB Selective Suspend state. Processor power management may be prevented when this USB device is not in the Selective Suspend state. Note that this issue will not prevent the system from sleeping.

Device Name	**USB Composite Device**
Host Controller ID	**PCI\VEN_1022&DEV_43EC**
Host Controller Location	**PCI bus 2, device 0, function 0**
Device ID	**USB\VID_0B05&PID_19AF**
Port Path	**4**

Warnings

Platform Timer Resolution:Outstanding Timer Request

A program or service has requested a timer resolution smaller than the platform maximum timer resolution.

Requested Period	**10000**
Requesting Process ID	**13836**
Requesting Process Path	**\Device\HarddiskVolume3\Program Files (x86)\Steam\bin\cef\cef.win7x64\steamwebhelper.exe**

Platform Timer Resolution:Outstanding Timer Request

A program or service has requested a timer resolution smaller than the platform maximum timer resolution.

Requested Period	**10000**
Requesting Process ID	**3340**
Requesting Process Path	**\Device\HarddiskVolume3\Program Files\GIGABYTE\Control Center\GCC.exe**

Power Policy:Dim timeout is long (Plugged In)

The display is configured to automatically dim after longer than 10 minutes.

Timeout (seconds)	**885**

Information

Platform Timer Resolution:Platform Timer Resolution

The default platform timer resolution is 15.6ms (15625000ns) and should be used whenever the system is idle. If the timer resolution is increased, processor power management technologies may not be effective. The timer resolution may be increased due to multimedia playback or graphical animations.

Current Timer Resolution (100ns units)	**156250**

Platform Timer Resolution:Timer Request Stack

The stack of modules responsible for the lowest platform timer setting in this process.

Requested Period	**10000**
Requesting Process ID	**13836**
Requesting Process Path	**\Device\HarddiskVolume3\Program Files (x86)\Steam\bin\cef\cef.win7x64\steamwebhelper.exe**
Calling Module Stack	**\Device\HarddiskVolume3\Windows\System32\ntdll.dll**
	\Device\HarddiskVolume3\Windows\System32\kernel32.dll
	\Device\HarddiskVolume3\Program Files (x86)\Steam\bin\cef\cef.win7x64\libcef.dll
	\Device\HarddiskVolume3\Program Files (x86)\Steam\bin\cef\cef.win7x64\steamwebhelper.exe
	\Device\HarddiskVolume3\Windows\System32\kernel32.dll
	\Device\HarddiskVolume3\Windows\System32\ntdll.dll

Platform Timer Resolution:Timer Request Stack

The stack of modules responsible for the lowest platform timer setting in this process.

Requested Period	**10000**
Requesting Process ID	**3340**
Requesting Process Path	**\Device\HarddiskVolume3\Program Files\GIGABYTE\Control Center\GCC.exe**
Calling Module Stack	**\Device\HarddiskVolume3\Windows\System32\ntdll.dll**
	\Device\HarddiskVolume3\Windows\System32\kernel32.dll
	\Device\HarddiskVolume3\Windows\Microsoft.NET\Framework64\v4.0.30319\WPF\wpfgfx_v0400.dll
	\Device\HarddiskVolume3\Windows\System32\kernel32.dll
	\Device\HarddiskVolume3\Windows\System32\ntdll.dll

Power Policy:Active Power Plan

The current power plan in use

Plan Name	**OEM High Performance**
Plan GUID	**{8c5e7fda-e8bf-4a96-9a85-a6e23a8c635c}**

Power Policy:Power Plan Personality (Plugged In)

The personality of the current power plan when the system is plugged in.

Personality	**High Performance**

Power Policy:802.11 Radio Power Policy is Maximum Performance (Plugged In)

The current power policy for 802.11-compatible wireless network adapters is not configured to use low-power modes.

Power Policy:Video quality (Plugged In)

Enables Windows Media Player to optimize for quality or power savings when playing video.

Quality Mode	**Optimize for Video Quality**

System Availability Requests:Analysis Success

Analysis was successful. No energy efficiency problems were found. No information was returned.

CPU Utilization:Processor utilization is low

The average processor utilization during the trace was very low. The system will consume less power when the average processor utilization is very low.

Average Utilization (%)	**1.60**

Battery:Analysis Success

Analysis was successful. No energy efficiency problems were found. No information was returned.

Platform Power Management Capabilities:Supported Sleep States

Sleep states allow the computer to enter low-power modes after a period of inactivity. The S3 sleep state is the default sleep state for Windows platforms. The S3 sleep state consumes only enough power to preserve memory contents and allow the computer to resume working quickly. Very few platforms support the S1 or S2 Sleep states.

S1 Sleep Supported	**false**
S2 Sleep Supported	**false**
S3 Sleep Supported	**true**
S4 Sleep Supported	**true**

Platform Power Management Capabilities:Connected Standby Support

Connected standby allows the computer to enter a low-power mode in which it is always on and connected. If supported, connected standby is used instead of system sleep states.

Connected Standby Supported	**false**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**0**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**161**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**1**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**161**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**

Index	**2**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**141**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**3**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**141**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**4**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**157**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**5**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**157**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**6**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**145**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**7**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**145**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**8**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**149**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**9**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**149**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**10**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**137**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**11**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**137**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**12**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**153**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**13**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**153**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**14**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**161**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Platform Power Management Capabilities:Processor Power Management Capabilities

Effective processor power management enables the computer to automatically balance performance and energy consumption.

Group	**0**
Index	**15**
Idle State Count	**2**
Idle State Type	**ACPI Idle (C) States**
Nominal Frequency (MHz)	**3401**
Maximum Performance Percentage	**161**
Lowest Performance Percentage	**51**
Lowest Throttle Percentage	**16**
Performance Controls Type	**ACPI Collaborative Processor Performance Control**

Device Drivers:Analysis Success

Analysis was successful. No energy efficiency problems were found. No information was returned.