Power Efficiency Diagnostics Report

Computer Name	**SAGEBEAST**
Scan Time	**2013-08-03T19:22:36Z**
Scan Duration	**60 seconds**
System Manufacturer	**Gigabyte Technology Co., Ltd.**
System Product Name	**P55-USB3**
BIOS Date	**11/01/2010**
BIOS Version	**F9**
OS Build	**7601**
Platform Role	**PlatformRoleDesktop**
Plugged In	**true**
Process Count	**81**
Thread Count	**1408**
Report GUID	**{fc19415c-2723-4b43-beb3-d22ffd5f992c}**

Analysis Results

Errors

System Availability Requests:System Required Request
The program has made a request to prevent the system from automatically entering sleep.

Requesting Process	**\Device\HarddiskVolume2\Program Files\SageTV\SageTV\SageTVService.exe**

System Availability Requests:System Required Request
The program has made a request to prevent the system from automatically entering sleep.

Requesting Process	**\Device\HarddiskVolume2\Program Files\SageTV\SageTV\SageTV.exe**

System Availability Requests:Display Required Request
The program has made a request to prevent the display from automatically entering a low-power mode.

Requesting Process	**\Device\HarddiskVolume2\Program Files\SageTV\SageTV\SageTV.exe**

System Availability Requests:System Required Request
A kernel component has made a request to prevent the system from automatically entering sleep.

USB Suspend:USB Device not Entering Suspend
The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**USB Composite Device**
Host Controller ID	**PCI\VEN_8086&DEV_3B36**
Host Controller Location	**PCI bus 0, device 29, function 0**
Device ID	**USB\VID_046D&PID_C52B**
Port Path	**2**

USB Suspend:USB Device not Entering Suspend
The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**Hauppauge HD PVR Capture Device**
Host Controller ID	**PCI\VEN_1033&DEV_00E0**
Host Controller Location	**PCI bus 5, device 3, function 2**
Device ID	**USB\VID_2040&PID_4902**
Port Path	**4**

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**USB Root Hub**
Host Controller ID	**PCI\VEN_8086&DEV_3B3E**
Host Controller Location	**PCI bus 0, device 26, function 1**
Device ID	**USB\VID_8086&PID_3B3E**
Port Path	

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**USB Root Hub**
Host Controller ID	**PCI\VEN_8086&DEV_3B3F**
Host Controller Location	**PCI bus 0, device 26, function 2**
Device ID	**USB\VID_8086&PID_3B3F**
Port Path	

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**USB Root Hub**
Host Controller ID	**PCI\VEN_8086&DEV_3B39**
Host Controller Location	**PCI bus 0, device 29, function 3**
Device ID	**USB\VID_8086&PID_3B39**
Port Path	

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**USB Root Hub**
Host Controller ID	**PCI\VEN_8086&DEV_3B36**
Host Controller Location	**PCI bus 0, device 29, function 0**
Device ID	**USB\VID_8086&PID_3B36**
Port Path	

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**USB Root Hub**
Host Controller ID	**PCI\VEN_1033&DEV_00E0**
Host Controller Location	**PCI bus 5, device 3, function 2**
Device ID	**USB\VID_1033&PID_00E0**
Port Path	

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**SG Remote Control Device**
Host Controller ID	**PCI\VEN_8086&DEV_3B39**
Host Controller Location	**PCI bus 0, device 29, function 3**
Device ID	**USB\VID_15C2&PID_FFDC**
Port Path	**1**

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**USB-UIRT Device**
Host Controller ID	**PCI\VEN_8086&DEV_3B3F**
Host Controller Location	**PCI bus 0, device 26, function 2**
Device ID	**USB\VID_0403&PID_F850**
Port Path	**2**

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**American Power Conversion USB UPS**
Host Controller ID	**PCI\VEN_8086&DEV_3B3E**
Host Controller Location	**PCI bus 0, device 26, function 1**
Device ID	**USB\VID_051D&PID_0002**
Port Path	**2**

USB Suspend:USB Device not Entering Suspend

The USB device did not enter the Suspend state. Processor power management may be prevented if a USB device does not enter the Suspend state when not in use.

Device Name	**USB Composite Device**
Host Controller ID	**PCI\VEN_8086&DEV_3B36**
Host Controller Location	**PCI bus 0, device 29, function 0**
Device ID	**USB\VID_0B38&PID_0010**
Port Path	**1**

CPU Utilization:Processor utilization is high

The average processor utilization during the trace was high. The system will consume less power when the average processor utilization is very low. Review processor utilization for individual processes to determine which applications and services contribute the most to total processor utilization.

Average Utilization (%)	**8.50**

Platform Power Management Capabilities:PCI Express Active-State Power Management (ASPM) Disabled

PCI Express Active-State Power Management (ASPM) has been disabled due to a known incompatibility with the hardware in this computer.

Warnings

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) **10000**

Maximum Timer Period (100ns units) **156001**

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   **7120**

Requesting Process Path **\Device\HarddiskVolume2\Program Files\SageTV\SageTV\SageTV.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   **9976**

Requesting Process Path **\Device\HarddiskVolume2\Program Files\SageTV\SageTV\SageTVService.exe**

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.

CPU Utilization:Individual process with significant processor utilization.

This process is responsible for a significant portion of the total processor utilization recorded during the trace.

Process Name	**ekrn.exe**
PID	**784**
Average Utilization (%)	**5.09**
Module	Average Module Utilization (%)
	3.91
\SystemRoot\system32\ntkrnlpa.exe	**0.45**
\Device\HarddiskVolume2\Windows\System32\kernel32.dll	**0.33**

CPU Utilization:Individual process with significant processor utilization.

This process is responsible for a significant portion of the total processor utilization recorded during the trace.

Process Name	**System**
PID	**4**
Average Utilization (%)	**0.54**
Module	Average Module Utilization (%)
\SystemRoot\system32\ntkrnlpa.exe	**0.36**
\SystemRoot\system32\halmacpi.dll	**0.04**
\SystemRoot\system32\drivers\USBPORT.SYS	**0.04**

CPU Utilization:Individual process with significant processor utilization.

This process is responsible for a significant portion of the total processor utilization recorded during the trace.

Process Name	**explorer.exe**
PID	**2328**
Average Utilization (%)	**0.31**
Module	Average Module Utilization (%)
\SystemRoot\system32\ntkrnlpa.exe	**0.07**

| \SystemRoot\System32\win32k.sys | 0.06 |
| \Device\HarddiskVolume2\Windows\System32\ntdll.dll | 0.02 |

CPU Utilization:Individual process with significant processor utilization.
 This process is responsible for a significant portion of the total processor utilization recorded during the trace.

Process Name	**SageTV.exe**
PID	**7120**
Average Utilization (%)	**0.25**
Module	Average Module Utilization (%)
\SystemRoot\system32\ntkrnlpa.exe	**0.09**
\SystemRoot\System32\win32k.sys	**0.03**
\Device\HarddiskVolume2\Windows\System32\ntdll.dll	**0.02**

Information

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	**7120**
Requesting Process Path	**\Device\HarddiskVolume2\Program Files\SageTV\SageTV\SageTV.exe**
Calling Module Stack	**\Device\HarddiskVolume2\Windows\System32\ntdll.dll**
	\Device\HarddiskVolume2\Windows\System32\winmm.dll
	\Device\HarddiskVolume2\Windows\System32\d3d9.dll
	\Device\HarddiskVolume2\Program Files\SageTV\SageTV\SageTVDX93D.dll
	Unknown Module

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	**9976**
Requesting Process Path	**\Device\HarddiskVolume2\Program Files\SageTV\SageTV\SageTVService.exe**
Calling Module Stack	**\Device\HarddiskVolume2\Windows\System32\ntdll.dll**
	\Device\HarddiskVolume2\Windows\System32\winmm.dll
	\Device\HarddiskVolume2\Windows\System32\quartz.dll
	\Device\HarddiskVolume2\Windows\System32\ole32.dll
	\Device\HarddiskVolume2\Windows\System32\quartz.dll
	\Device\HarddiskVolume2\Program Files\SageTV\SageTV\DShowCapture.dll
	Unknown Module

Power Policy:Active Power Plan
 The current power plan in use

| Plan Name | **OEM Balanced** |
| Plan GUID | **{381b4222-f694-41f0-9685-ff5bb260df2e}** |

Power Policy:Power Plan Personality (Plugged In)

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

Personality   **Balanced**

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**

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:Processor Power Management Capabilities

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

Group	**0**
Index	**0**
Idle (C) State Count	**1**
Performance (P) State Count	**14**
Throttle (T) State Count	**8**

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 (C) State Count	**1**
Performance (P) State Count	**14**
Throttle (T) State Count	**8**

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 (C) State Count	**1**
Performance (P) State Count	**14**
Throttle (T) State Count	**8**

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 (C) State Count	1
Performance (P) State Count	14
Throttle (T) State Count	8

Group	0
Index	3