

Power Efficiency Diagnostics Report

Computer Name **HP_PAVILIONB010**
Scan Time **2013-02-14T13:48:42Z**
Scan Duration **60 seconds**
System Manufacturer **Hewlett-Packard**
System Product Name **23-b010**
BIOS Date **09/07/2012**
BIOS Version **8.06**
OS Build **9200**
Platform Role **PlatformRoleDesktop**
Plugged In **true**
Process Count **89**
Thread Count **1224**
Report GUID **{a6a5a0b6-9d24-42a9-935d-27a841cce41e}**

Analysis Results

Errors

System Availability Requests: System Required Request

The device or driver has made a request to prevent the system from automatically entering sleep.

Driver Name **\FileSystem\srvtet**

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 Root Hub**
Host Controller ID **PCI\VEN_1022&DEV_7807**
Host Controller Location **PCI bus 0, device 18, function 0**
Device ID **USB\VID_1022&PID_7807**
Port Path

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 Root Hub**
Host Controller ID **PCI\VEN_1022&DEV_7808**
Host Controller Location **PCI bus 0, device 18, function 2**
Device ID **USB\VID_1022&PID_7808**
Port Path

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_7808**
Host Controller Location **PCI bus 0, device 18, function 2**
Device ID **USB\VID_1A40&PID_0101**
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 Input Device**
Host Controller ID **PCI\VEN_1022&DEV_7807**
Host Controller Location **PCI bus 0, device 18, function 0**
Device ID **USB\VID_15D9&PID_0A4F**
Port Path **3**

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_7807
Host Controller Location	PCI bus 0, device 18, function 0
Device ID	USB\VID_04F2&PID_1061
Port Path	4

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_7808
Host Controller Location	PCI bus 0, device 18, function 2
Device ID	USB\VID_1A40&PID_0101
Port Path	2,1

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 Mass Storage Device
Host Controller ID	PCI\VEN_1022&DEV_7808
Host Controller Location	PCI bus 0, device 18, function 2
Device ID	USB\VID_090C&PID_1000
Port Path	2,2

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 Mass Storage Device
Host Controller ID	PCI\VEN_1022&DEV_7808
Host Controller Location	PCI bus 0, device 18, function 2
Device ID	USB\VID_1058&PID_071A
Port Path	2,3

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 Bluetooth Radio
Host Controller ID	PCI\VEN_1022&DEV_7808
Host Controller Location	PCI bus 0, device 18, function 2
Device ID	USB\VID_0A12&PID_0001
Port Path	2,1,4
Reason	This Bluetooth USB device does not support selective suspend because it is not self powered.
Reason	This Bluetooth USB device does not support selective suspend because it is not remote wake capable.

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 (%) **64.92**

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) **10001**
 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 **3276**
 Requesting Process Path **\Device\HarddiskVolume4\Program Files (x86)\Google\Chrome\Application\chrome.exe**

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 **svchost.exe**
 PID **1128**
 Average Utilization (%) **8.79**
 Module Average Module Utilization (%)
\SystemRoot\system32\ntoskrnl.exe **2.12**
\Device\HarddiskVolume4\Windows\System32\ntdll.dll **1.76**
\Device\HarddiskVolume4\Windows\System32\wbem\repdrvfs.dll **0.76**

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
 PID
 Average Utilization (%)
 Module
\Device\HarddiskVolume4\Windows\System32\mshtml.dll
\SystemRoot\system32\ntoskrnl.exe
\Device\HarddiskVolume4\Windows\WinSxS\amd64_microsoft.windows.gdiplus_6595b64144ccf1df_1.1.9200.16502_none_726f

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 **chrome.exe**
 PID **5612**
 Average Utilization (%) **6.82**
 Module Average Module Utilization (%)
\Device\HarddiskVolume4\Program Files (x86)\Google\Chrome\Application\24.0.1312.57\chrome.dll **5.61**
\SystemRoot\system32\ntoskrnl.exe **0.59**
\SystemRoot\System32\win32k.sys **0.15**

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 **chrome.exe**
 PID **3276**
 Average Utilization (%) **5.00**
 Module Average Module Utilization (%)
\Device\HarddiskVolume4\Program Files (x86)\Google\Chrome\Application\24.0.1312.57\chrome.dll **1.92**
\SystemRoot\system32\ntoskrnl.exe **1.10**
\SystemRoot\System32\win32k.sys **0.48**

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	3788
Average Utilization (%)	3.82
Module	Average Module Utilization (%)
\SystemRoot\system32\ntoskrnl.exe	1.22
\SystemRoot\System32\win32k.sys	0.67
\Device\HarddiskVolume4\Windows\System32\ntdll.dll	0.28

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	dwm.exe
PID	1088
Average Utilization (%)	3.01
Module	Average Module Utilization (%)
\Device\HarddiskVolume4\Windows\System32\dwmcore.dll	1.05
\Device\HarddiskVolume4\Windows\System32\atidx64.dll	0.53
\SystemRoot\system32\ntoskrnl.exe	0.41

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	chrome.exe
PID	4904
Average Utilization (%)	2.99
Module	Average Module Utilization (%)
\Device\HarddiskVolume4\Windows\SysWOW64\atiumdag.dll	0.70
\Device\HarddiskVolume4\Program Files (x86)\Google\Chrome\Application\24.0.1312.57\libglesv2.dll	0.63
\Device\HarddiskVolume4\Program Files (x86)\Google\Chrome\Application\24.0.1312.57\chrome.dll	0.47

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	PCMeterV0.3.exe
PID	3760
Average Utilization (%)	2.85
Module	Average Module Utilization (%)
\Device\HarddiskVolume4\Windows\Microsoft.NET\Framework64\v2.0.50727\mscorlib.dll	1.10
\Device\HarddiskVolume4\Windows\System32\ntdll.dll	0.36
\SystemRoot\system32\ntoskrnl.exe	0.26

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	YCMirage.exe
PID	4552
Average Utilization (%)	2.76
Module	Average Module Utilization (%)
\SystemRoot\system32\ntoskrnl.exe	1.67
\Device\HarddiskVolume4\Windows\SysWOW64\ntdll.dll	0.33
\SystemRoot\System32\Drivers\Ntfs.sys	0.13

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	clock.exe
PID	4340
Average Utilization (%)	2.73

Module	Average Module Utilization (%)
\SystemRoot\System32\win32k.sys	1.44
\SystemRoot\system32\ntoskrnl.exe	1.04
\Device\HarddiskVolume4\Windows\System32\wow64cpu.dll	0.05

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 (%)	2.59
Module	Average Module Utilization (%)
\SystemRoot\system32\ntoskrnl.exe	1.20
\SystemRoot\system32\hal.dll	0.64
\SystemRoot\System32\drivers\dxgmmms1.sys	0.30

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	SearchProtocolHost.exe
PID	2948
Average Utilization (%)	2.26
Module	Average Module Utilization (%)
\SystemRoot\system32\ntoskrnl.exe	0.84
\Device\HarddiskVolume4\Windows\System32\ntdll.dll	0.27
\Device\HarddiskVolume4\Windows\System32\shell32.dll	0.23

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	
PID	
Average Utilization (%)	
Module	
\Device\HarddiskVolume4\Windows\WinSxS\x86_microsoft.windows.gdiplus_6595b64144ccf1df_1.1.9200.16502_none_ba1c7f1	
\SystemRoot\system32\ntoskrnl.exe	
\Device\HarddiskVolume4\Program Files (x86)\XWidget\xwidget.exe	

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	SearchIndexer.exe
PID	3656
Average Utilization (%)	1.76
Module	Average Module Utilization (%)
\Device\HarddiskVolume4\Windows\System32\mssrch.dll	0.44
\Device\HarddiskVolume4\Windows\System32\KernelBase.dll	0.32
\SystemRoot\system32\ntoskrnl.exe	0.25

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	
PID	
Average Utilization (%)	
Module	
\SystemRoot\System32\win32k.sys	

\Device\HarddiskVolume4\Windows\WinSxS\x86_microsoft.windows.gdiplus_6595b64144ccf1df_1.1.9200.16502_none_ba1c7f1\SystemRoot\system32\ntoskrnl.exe

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	csrss.exe
PID	892
Average Utilization (%)	1.25
Module	Average Module Utilization (%)
\SystemRoot\System32\win32k.sys	0.55
\SystemRoot\system32\ntoskrnl.exe	0.52
\SystemRoot\system32\DRIVERS\atikmdag.sys	0.09

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	spotify.exe
PID	4116
Average Utilization (%)	1.18
Module	Average Module Utilization (%)
\Device\HarddiskVolume4\Users\SHERRY\AppData\Roaming\Spotify\Data\libcef.dll	0.61
\Device\HarddiskVolume4\Users\SHERRY\AppData\Roaming\Spotify\spotify.exe	0.15
\SystemRoot\system32\ntoskrnl.exe	0.12

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	avgidsagent.exe
PID	1944
Average Utilization (%)	0.83
Module	Average Module Utilization (%)
\Device\HarddiskVolume4\Program Files (x86)\AVG\AVG2013\avgidsagent.exe	0.34
\SystemRoot\system32\ntoskrnl.exe	0.18
\Device\HarddiskVolume4\Windows\SysWOW64\ntdll.dll	0.11

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	chrome.exe
PID	5564
Average Utilization (%)	0.38
Module	Average Module Utilization (%)
\Program Files (x86)\Google\Chrome\Application\24.0.1312.57\chrome.dll	0.25
\SystemRoot\system32\ntoskrnl.exe	0.07
\SystemRoot\SysWOW64\ntdll.dll	0.01

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	svchost.exe
PID	1324
Average Utilization (%)	0.36
Module	Average Module Utilization (%)
\Device\HarddiskVolume4\Windows\System32\sysmain.dll	0.32
\SystemRoot\system32\ntoskrnl.exe	0.01
\Device\HarddiskVolume4\Windows\System32\msvcrt.dll	0.00

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	TuneUpUtilitiesService64.exe
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PID	2220
Average Utilization (%)	0.33
Module	Average Module Utilization (%)
\SystemRoot\system32\ntoskrnl.exe	0.15
\Device\HarddiskVolume4\Program Files (x86)\TuneUp Utilities 2013\TuneUpUtilitiesService64.exe	0.07
\Device\HarddiskVolume4\Windows\System32\KernelBase.dll	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	conhost.exe
PID	1696
Average Utilization (%)	0.31
Module	Average Module Utilization (%)
\SystemRoot\System32\win32k.sys	0.20
\SystemRoot\system32\ntoskrnl.exe	0.06
\Device\HarddiskVolume4\Windows\System32\user32.dll	0.01

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	chrome.exe
PID	5008
Average Utilization (%)	0.28
Module	Average Module Utilization (%)
\Device\HarddiskVolume4\Program Files (x86)\Google\Chrome\Application\24.0.1312.57\chrome.dll	0.19
\SystemRoot\system32\ntoskrnl.exe	0.03
	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	3276
Requesting Process Path	\Device\HarddiskVolume4\Program Files (x86)\Google\Chrome\Application\chrome.exe
Calling Module Stack	\Device\HarddiskVolume4\Windows\SysWOW64\ntdll.dll
	\Device\HarddiskVolume4\Windows\SysWOW64\kernel32.dll
	\Device\HarddiskVolume4\Program Files (x86)\Google\Chrome\Application\24.0.1312.57\chrome.dll
	\Device\HarddiskVolume4\Windows\SysWOW64\kernel32.dll
	\Device\HarddiskVolume4\Windows\SysWOW64\ntdll.dll

Power Policy:Active Power Plan

The current power plan in use

Plan Name	OEM Power Saver
Plan GUID	{a1841308-3541-4fab-bc81-f71556f20b4a}

Power Policy:Power Plan Personality (Plugged In)

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

Personality	Power Saver
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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 **Balance Video Quality and Power Savings**

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)	1700
Maximum Performance Percentage	100
Lowest Performance Percentage	50
Lowest Throttle Percentage	50
Performance Controls Type	ACPI Performance (P) / Throttle (T) States

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)	1700
Maximum Performance Percentage	100
Lowest Performance Percentage	50
Lowest Throttle Percentage	50
Performance Controls Type	ACPI Performance (P) / Throttle (T) States