

Power Efficiency Diagnostics Report

Computer Name **BOB-PC**
Scan Time **2010-11-24T15:57:20Z**
Scan Duration **60 seconds**
System Manufacturer **Hewlett-Packard**
System Product Name **HP Pavilion dv6700 Notebook PC**
BIOS Date **11/25/2008**
BIOS Version **F.59**
OS Build **7600**
Platform Role **PlatformRoleMobile**
Plugged In **true**
Process Count **84**
Thread Count **880**
Report GUID **{cf70e1b4-864a-4465-a154-b4ffa3d71af4}**

Analysis Results

Errors

Power Policy:USB Selective Suspend is disabled (On Battery)

The current power policy has globally disabled USB selective suspend.

Power Policy:Display timeout disabled (Plugged In)

The display is not configured to turn off after a period of inactivity.

Power Policy:Dim timeout is disabled (Plugged In)

The display is not configured to automatically dim 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:USB Selective Suspend is disabled (Plugged In)

The current power policy has globally disabled USB selective suspend.

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_2830**
Host Controller Location **PCI bus 0, device 29, function 0**
Device ID **USB\VID_8086&PID_2830**
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 **Generic USB Hub**
 Host Controller ID **PCI\VEN_8086&DEV_2836**
 Host Controller Location **PCI bus 0, device 29, function 7**
 Device ID **USB\VID_05E3&PID_0608**
 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 **Generic USB Hub**
 Host Controller ID **PCI\VEN_8086&DEV_283A**
 Host Controller Location **PCI bus 0, device 26, function 7**
 Device ID **USB\VID_05E3&PID_0608**
 Port Path **4,4**

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 Composite Device**
 Host Controller ID **PCI\VEN_8086&DEV_283A**
 Host Controller Location **PCI bus 0, device 26, function 7**
 Device ID **USB\VID_03F0&PID_140C**
 Port Path **4,2**

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 Root Hub**
 Host Controller ID **PCI\VEN_8086&DEV_2831**
 Host Controller Location **PCI bus 0, device 29, function 1**
 Device ID **USB\VID_8086&PID_2831**
 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_2832**
 Host Controller Location **PCI bus 0, device 29, function 2**
 Device ID **USB\VID_8086&PID_2832**
 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_2835**
 Host Controller Location **PCI bus 0, device 26, function 1**
 Device ID **USB\VID_8086&PID_2835**
 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 Mass Storage Device**
 Host Controller ID **PCI\VEN_8086&DEV_2836**
 Host Controller Location **PCI bus 0, device 29, function 7**
 Device ID **USB\VID_048D&PID_8903**
 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 Root Hub**
 Host Controller ID **PCI\VEN_8086&DEV_2834**
 Host Controller Location **PCI bus 0, device 26, function 0**
 Device ID **USB\VID_8086&PID_2834**
 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_283A**
Host Controller Location **PCI bus 0, device 26, function 7**
Device ID **USB\VID_8086&PID_283A**
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_2836**
Host Controller Location **PCI bus 0, device 29, function 7**
Device ID **USB\VID_8086&PID_2836**
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 **Generic USB Hub**
Host Controller ID **PCI\VEN_8086&DEV_283A**
Host Controller Location **PCI bus 0, device 26, function 7**
Device ID **USB\VID_05E3&PID_0608**
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 **Generic USB Hub**
Host Controller ID **PCI\VEN_8086&DEV_283A**
Host Controller Location **PCI bus 0, device 26, function 7**
Device ID **USB\VID_0409&PID_0059**
Port Path **4,1**

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 **Generic USB Hub**
Host Controller ID **PCI\VEN_8086&DEV_283A**
Host Controller Location **PCI bus 0, device 26, function 7**

Device ID **USB\VID_05E3&PID_0610**
 Port Path **4,4,1**

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 Input Device**
 Host Controller ID **PCI\VEN_8086&DEV_2836**
 Host Controller Location **PCI bus 0, device 29, function 7**
 Device ID **USB\VID_0C2E&PID_0200**
 Port Path **2,2**

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 **Generic USB Hub**
 Host Controller ID **PCI\VEN_8086&DEV_283A**
 Host Controller Location **PCI bus 0, device 26, function 7**
 Device ID **USB\VID_05E3&PID_0610**
 Port Path **4,4,1,1**

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 Mass Storage Device**
 Host Controller ID **PCI\VEN_8086&DEV_2836**
 Host Controller Location **PCI bus 0, device 29, function 7**
 Device ID **USB\VID_1058&PID_1021**
 Port Path **2,3**

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 Mass Storage Device**
 Host Controller ID **PCI\VEN_8086&DEV_283A**
 Host Controller Location **PCI bus 0, device 26, function 7**
 Device ID **USB\VID_05E3&PID_070E**
 Port Path **4,4,4**

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 Composite Device
Host Controller ID	PCI\VEN_8086&DEV_283A
Host Controller Location	PCI bus 0, device 26, function 7
Device ID	USB\VID_03F0&PID_3312
Port Path	4,4,1,1,3

Warnings**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:Processor utilization is moderate

The average processor utilization during the trace was moderate. 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 (%) **3.47**

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	agent.exe
PID	3644
Average Utilization (%)	0.63
Module	Average Module Utilization (%)
\SystemRoot\system32\ntkrnlpa.exe	0.31
\SystemRoot\System32\ntdll.dll	0.06
\SystemRoot\System32\Drivers\Ntfs.sys	0.06

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	sidebar.exe
PID	1556
Average Utilization (%)	0.35
Module	Average Module Utilization

	(%)
\Device\HarddiskVolume1\Windows\System32\mshtml.dll	0.09
\SystemRoot\system32\ntkrnlpa.exe	0.07
\SystemRoot\System32\win32k.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	dwm.exe
PID	3880
Average Utilization (%)	0.29
Module	Average Module Utilization (%)
\Device\HarddiskVolume1\Windows\System32\igd10umd32.dll	0.08
\Device\HarddiskVolume1\Windows\System32\dwmcore.dll	0.07
\SystemRoot\system32\DRIVERS\igdkmd32.sys	0.03

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 (%)	0.28
Module	Average Module Utilization (%)
\SystemRoot\system32\ntkrnlpa.exe	0.13
\SystemRoot\system32\halmacpi.dll	0.04
\SystemRoot\System32\Drivers\cng.sys	0.02

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) **156000**

Power Policy:Active Power Plan

The current power plan in use

Plan Name **Custom**

Plan GUID **{c1bc06b5-1812-42bb-ae93-f6fa32661e3f}**

Power Policy:Power Plan Personality (On Battery)

The personality of the current power plan when the system is on battery power.

Personality **Balanced**

Power Policy:Video Quality (On Battery)

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

Quality Mode **Balance Video Quality and Power Savings**

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**

System Availability Requests:Analysis Success

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

Battery:Battery Information

Battery ID **Hewlett-PackardPrimary**

Manufacturer **Hewlett-Packard**

Serial Number

Chemistry **LION**

Long Term **1**

Design Capacity **88800**

Last Full Charge **63462**

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:Adaptive Display Brightness is supported.

This computer enables Windows to automatically control the brightness of the integrated display.

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	3
Performance (P) State Count	4
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	3
Performance (P) State Count	4
Throttle (T) State Count	8