



Microsoft® Windows® XP and Windows® Server 2003 Processor Speed Reporting

Application Note

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Introduction

This application note assists customers with the processor speed reporting feature of Microsoft® Windows® XP and Windows Server 2003 operating systems.

Overview

Microsoft identified an issue with the reporting of the processor speed by both Windows XP and Windows Server 2003 operating systems if either AMD PowerNow!™ Technology or Cool'n'Quiet™ Technology is enabled. Microsoft issued a knowledge base article titled "Different ways to determine CPU speed in Windows XP or in Windows Server 2003." (<http://support.microsoft.com/default.aspx?scid=kb;en-us;888282>)

The speed displayed by Windows XP or Windows Server 2003 System Properties may not be the maximum speed supported by the processor because the current processor workload may not have warranted use of the maximum speed. Maximum processor speed is automatically invoked when the workload indicates it would maximize performance.

Solution

Users may download a CPU speed reporting utility from the AMD website. The utility is here:

http://www.amd.com/us-en/assets/content_type/utilities/amdcpuinfo.exe

AMD CPUInfo - This Windows® application executes and displays the return data from the CPUID instruction set and displays Hypertransport™ information if the processor supports it. This application also shows the maximum speed of the processor.

Knowledge Base

The following is a list of additional Microsoft's knowledge base articles that apply to the Windows XP operating system:

“How Processor Speed Is Reported to a Computer”

<http://support.microsoft.com/default.aspx?scid=kb;en-us;312104&Product=winxp>

“The Processor Speed May Be Reported Incorrectly in Windows XP”

<http://support.microsoft.com/default.aspx?scid=kb;en-us;316965&Product=winxp>

“System Properties Report Wrong Processor Speed”

<http://support.microsoft.com/default.aspx?scid=kb;en-us;303602&Product=winxp>

“CPU Speed in System Properties Dialog Box May Differ from Actual CPU Speed”

<http://support.microsoft.com/default.aspx?scid=kb;en-us;311051>

“The Processor Performance State Is Not Restored to the Maximum State If the CPU Runs at 100 Percent”

<http://support.microsoft.com/default.aspx?scid=kb;en-us;330512>