AMD Athlon 64 / Opteron / Sempron / Turion 64 Processor Driver

Release Notes for Version 1.3.2.0

General Description

This package contains release **Version 1.3.2.0** of the processor driver, amdk8.sys, with Microsoft® digital signature.

❖ AMD PowerNow!™ and Cool'n'Quiet™ technologies allow the system to dynamically and automatically select the processor speed, voltage and power combination that match the instantaneous user performance need.

❖ The processor driver is compatible with the AMD Athlon™ 64, Mobile AMD Athlon 64, Mobile Sempron™, Sempron™, AMD Turion™ Mobile Technology and Opteron™ processors.

❖ This software will not run on a system that does not support the AMD PowerNow! or Cool'n'Quiet technologies via specific features of the motherboard and BIOS.

❖ This driver has the workaround for Errata #108 listed in the Processor Revision Guide for AMD Athlon 64 and AMD Opteron Processors, order# 25759.

Fixes

Installer Version 1.3.2.14– 5/11/06:

• Installer Change – Incorporated 1.3.2.0 driver.

Driver Version 1.3.2.0– 6/19/06:

• Driver Change – Fixed 'Resume' issue introduced by 1.3.1.0.

Installer Version 1.3.1.13– 5/14/06:

• Installer Change –Remove legacy installer upgrade support.

Installer Version 1.3.1.7– 5/11/06:

• Installer Change – Incorporated 1.3.1.0 driver.

Driver Version 1.3.1.0– 5/11/06:

• Driver Change – Fixes corner case for dead-lock condition during 'suspend' events.

Installer Version 1.3.0.4– 4/26/06:

• Installer Change – Incorporated 1.3.0.0 driver.

Driver Version 1.3.0.0– 4/14/06:

• Driver Change –Support added for 100Mhz frequency steps when available.

Installer Version 1.2.2.8 – 1/25/06:

• Installer Change – Switched to DIFx based installer.

Driver Version 1.2.2.0 – 3/09/05:

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- The processor driver supports performance state transitions on the AMD dual-core processor systems.

Installer Version 1.1.0.18 – 8/16/04:

- The InstallShield issue associated with the Hebrew language installation is fixed.

- The processor driver supports performance state transitions on the AMD Opteron MP-based systems.

Usage Notes

- Run Setup.exe for installation wizard.

- Run Setup.exe /s from the command-line console for a silent installation.

- Instructions for enabling Cool'n'Quiet on Windows XP with user accounts that do not have Administrative Rights

    1. Log on as Administrator on the Local Machine.
    2. Click Start, then Run…
    3. Enter Regedt32 into the run dialog box and click Ok.
    4. Locate and click the following registry key:
       HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\ControlsFolder\PowerCfg\GlobalPowerPolicy
    5. Right click and from the context menu, click Permissions.
    6. Click on "Users" group entry.
    7. Click in the Full Control box under the Allow heading and click Ok.
    8. Locate and click the next registry key:
       HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\ControlsFolder\PowerCfg\PowerPolicies
    9. Right click and from the context menu, click Permissions.
    10. Click on "Users" group entry.
    11. Click in the Full Control box under the Allow heading and click Ok.
    12. Close the Registry.

- Verify that users have the right to shut down the system:

    1. In Control Panel, double-click Administrative Tools, and then double-click "Local Security Policy…"
    2. In the left pane, expand Local Policies and click User Rights Assignment.
    3. In the right pane, double-click "Shut down the system".
    4. If the Security Setting does not include the "Users" group, click on button to add the "Users" group.

- Making these changes will allow normal users to alter power scheme settings without being added to the Local Administrators group.

Deliverables

- Setup.exe

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- ReadMe.rtf

OEMs/ODMs can bundle the signed driver with their software CD.

System Requirements

- ❖ Microprocessors supported:
    - ➢ Any AMD Athlon 64, Sempron, Turion 64 or Opteron processor with PowerNow! or Cool'n'Quiet enabled processor and appropriate BIOS support.

- ❖ This software installs and operates under the following operating systems:
    - ➢ Microsoft® Windows® XP 32-bit or x64 Edition
    - ➢ Microsoft® Windows® Server 2003 32-bit or x64 Edition

- ❖ The following languages are supported:
    - ➢ English, Arabic, Brazilian, Chinese (Simplified and Traditional), Czech, Danish, Dutch (Netherlands), Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish.

- ❖ KNOWN Windows XP LIMITATIONS:
    - ➢ "System Properties" reports wrong processor speed.
      For more information, please refer to the following website:
      http://support.microsoft.com/default.aspx?scid=kb;en-us;303602
    - ➢ The Processor speed may be reported incorrectly in Windows XP.
      For more information, please refer to the following website:
      http://support.microsoft.com/default.aspx?scid=kb;en-us;316965
    - ➢ If not running ServicePack 2 (SP2), the processor performance state may not be restored to the maximum state if the CPU runs at 100 percent. This problem occurs if the computer is 100 percent busy when the power policy changes.
      For more information and support options, please refer to the following website:
      http://support.microsoft.com/?kbid=330512

- ❖ **NOTE:** As with all driver installations on Windows®, you need to login as Administrator or have administrator rights for your domain login.

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