



Technical Advisory

TA-813-1

2800 Center Drive
Dupont, WA 98327

May 30, 2006

SR4850HW4, SR6850HW4, BHWBASE, SR4850HW4M SR6850HW4M and BHWBASEM supported Voltage Regulator Modules

*Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice. The **Intel® Server Platforms SR4850HW4/SR6850HW4/SR4850HW4M/SR6850HW4M** and **Intel® Server Boards SE8500HW4/SE8851HW4** may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.*

Products Affected

Intel® Server Platform SR4850HW4, SR6850HW4, BHWBASE, SR4850HW4M, SR6850HW4M, BHWBASEM, AHWVRMC, AHWVRMCM, AHWVRMP and AHWVRMPM

Description

Insertion of incorrect VRM may cause POST error beep codes when the system is powered up:

For Intel® Server Platform SR4850HW4, SR6850HW4, BHWBASE beep codes 1-5-4-4 may be heard.

For Intel® Server Platform SR4850HW4M, SR6850HW4M, BHWBASEM beep codes 1-5-2-3 may be heard.

Root Cause

POST error beep codes may occur due to an unsupported VRM configuration. Main boards C51891-xxx (SR4850HW4, SR6850HW4, BHWBASE) and D22177-xxx (SR4850HW4M, SR6850HW4M, BHWBASEM) use different designs for processor L3 cache voltage regulation.



Technical Advisory

TA-813-1

2800 Center Drive
Dupont, WA 98327

May 30, 2006

Corrective Action / Resolution

Use a supported VRM configuration.

Production Intel® Server Platform SR4850HW4, SR6850HW4, and BHWBASE servers support the following VRMs:

Processor core VRMs:

AHWVRMP
AHWVRMPM

AHWVRMP is supported with the following processors:

64-bit Intel® Xeon® Processors MP with 1MB L2 Cache
64-bit Intel® Xeon® Processors MP with up to 8MB L3 Cache

AHWVRMPM is supported with the following processors:

64-bit Intel® Xeon® Processors MP with 1MB L2 Cache
64-bit Intel® Xeon® Processors MP with up to 8MB L3 Cache
Dual-Core Intel® Xeon® Processors 7000 Sequence

Processor cache VRM:

AHWVRMC

Production Intel® Server Platform SR4850HW4M, SR6850HW4M, BHWBASEM servers supported the following VRMs:

Processor core VRM:

AHWVRMPM

Processor cache VRM:

AHWVRMCM

Please refer to the Platform Product Guide and Technical Product Specifications for installation and configuration information.

Contact your Intel support representative if more specific information about this issue is required. Reference the following Technical Advisory number: TA-813-1.

Enterprise Platforms and Services Division
Intel Corporation