

intel® Technical Advisory

TA-0857-1

5200 NE Elam Young Parkway
Hillsboro, OR 97124

January 10, 2007

Intel® System Management Software v1.5 has not implemented PECI thermal information on Intel Server Boards S3000AH/S3000AHLX

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 Manager Software 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® System Management Software 1.5
S3000AH
S3000AHLX

Description

Intel® System Management Software 1.5 is used to monitor the hardware sensors on Intel Server Boards S3000AH/S3000AHLX. Version 1.5 was programmed to monitor a single core processor temperature. With the advent of the Multi-Core Intel® Xeon® Processors, thermal readings for the multiple cores are displayed as Platform Environment Control Interface (PECI) sensors and this display has not been implemented in the software. This is true for all the interfaces of Intel System Management Software v1.5 including Intel® Active System Console and Intel® Remote System Console.

Root Cause

Multi-Core Intel® Xeon® processors use PECI thermal monitoring rather than the legacy thermal diode (t-diode) monitoring to display processor thermal information. PECI is an improvement over the legacy mode and displays the difference between the current core temperature and the temperature at which cooling or bandwidth will be altered to prevent overheating. Intel® System Management Software 1.5 cannot display PECI sensors for Intel server boards S3000AH/S3000AHLX.

Corrective Action / Resolution

Intel is investigating the feasibility of providing this capability in a future version of server management software.

Please contact your Intel Sales Representative if you require more specific information about this issue.

Enterprise Platforms & Services Division
Intel Corporation