

TA-859-00

5200 NE Elam Young Parkway Hillsboro, OR 97124

January 21, 2007

Intel® Embedded Server RAID Technology II (ESRT, SWR) Drive Limit

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 boards listed below 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

S5000PSLSAS S5000XVNSAS SR1500ALSAS, SR1550ALSAS, SR2500BRPLX S5000VSASAS, SR2520SAX S5000VCLSASBB, SR1530HCLS

Description

Intel has identified a potential data loss issue if the maximum number of connected drives supported by the Intel® Embedded Server RAID Technology II (ESRTII) is exceeded on any Intel® S5000 chipset based server board with Software RAID enabled on the SAS controller.

Root Cause

Only eight (8) drives are allowed on an Intel S5000 chipset based server board with Intel® Embedded Server RAID Technology II enabled on the SAS 106x controller (enabled in BIOS and by drivers).

Connecting a ninth (9th) drive to the same controller may cause the controller to alter which eight drives are considered to be part of the array which might cause data loss.

Corrective Action / Resolution

Do not attach more than eight (8) drives including the hot spare drive(s) to the onboard SAS controller ports when Intel® Embedded Server RAID Technology II is enabled. At this time there is no warning given when a ninth drive is added. It is the user's responsibility not to exceed the 8 total drive limit.

In the future a warning will be shown when more than 8 drives are attached to the server board SAS ports.

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

Enterprise Platforms & Services Division Intel Corporation

Copyright	© 2007	Intel Co	poration.