

intel® Technical Advisory

TA-359-1

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April 3, 2001

STL2 and SBT2 BIOS Containing Microcode Update Fix for 933MHz B stepping Pentium® III Processor and 933MHz B Stepping Pentium® III Xeon™ Processor (256KB) Erratum

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Products Affected

STL2, BTLBB, STL2G, SBT2, BBTBB

Description

When 933MHz B stepping Pentium® III processors are installed in the STL2 server board, or when 933MHz B Stepping Pentium® III Xeon™ processors are installed in the SBT2 server board, these products may be affected by the "High Temperature and Low Supply Voltage Operation May Result in Incorrect Processor Operation" processor erratum. This erratum is documented in the Intel® Pentium® III Processor Specification Update, order number 244453-028, as erratum #E76, and in the Intel® Pentium® III Xeon™ Processor Specification Update, order number 244460-027, as erratum #G85. Please reference these Specification Update documents for further details about the erratum.

The following table lists the 933MHz B stepping Pentium® III processors supported by the STL2 server board, and the 933MHz B Stepping Pentium® III Xeon™ processors supported by the SBT2 server board, which are potentially affected by this erratum.

Product	Form Factor	Speed	Product Code	S-spec
Pentium® III processor	FCPGA	933 MHz	RB80526PZ933256	SL44J
Pentium® III Xeon™ processor (256KB)	SC330	933 MHz	805256KZ933256	SL3WX & SL3WY

B stepping processors below 933MHz or any speed of the A, C, or D stepping of the processor are not affected.

Corrective Action / Resolution

The issue has been root caused and a BIOS microcode update fix for this issue is now available. This BIOS microcode update fix has been included in STL2 BIOS Release 1.7, Build 21, and SBT2 BIOS Release 1.10, Build 21.

Intel recommends that customers utilizing 933MHz B stepping Pentium® III processors with the STL2 server board, or 933MHz B Stepping Pentium® III Xeon™ processors with the SBT2 server board, update the server boards to these BIOS versions.

STL2 BIOS Release 1.7, Build 21, and SBT2 BIOS Release 1.10, Build 21 are available for download from iBL and <http://support.intel.com>.

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

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