intel.Technical Advisory

TA-294-02

5200 NE Elam Young Parkway
Hillsboro, OR 97124

July 19, 2000

Some boxed L440GX+ server boards (product code BOXL440GXG) will not support 1 GHz Intel® Pentium® III processors

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Products Affected
BOXL440GXG

Description
Intel manufacturing discovered that some L440GX+ server boards (product code BOXL440GXG) were assembled and shipped from its factory with an incorrect capacitor value in the VRM Circuitry. Having the incorrect capacitor in the VRM circuitry will prevent the affected server boards from supporting the 1GHz Pentium III processor. Functionality for all other supported processors, up to and including the 850 MHz Pentium III processor, is not affected.

L440GX+ server boards affected will have the following identifiers: AA# of 721242-020, TA# of A18628-003, and a serial number within the following ranges:

> ABLW02703453 --- ABLW02703463
> ABLW02703695 --- ABLW02705252
> ABLW02800002 --- ABLW02802075
> ABLW02802750 --- ABLW02803226
> ABLW02803435 --- ABLW02803808

The affected L440GX+ server boards are isolated to the channel (retail) boxed product only. Serial numbers and TA numbers may be found on a label on the outside of the box. Serial numbers and AA numbers can be found on a white label affixed to the edge of the topside of the server board.

All previously shipped L440GX+ server boards, prior to product code BOXL440GXG, are not affected by this issue.

Root Cause
The incorrect ECAP, iPN 628955-003 (150uF), was used at 3 locations in the VRM circuitry; C5G4, C5G5, C6G4. The proper ECAP part should be iPN 628955-009 (270uF).

Corrective Action
Intel has reworked and tested all L440GX+ boards assembled prior to the discovery of this issue and that were not shipped from its factory.

Intel has taken steps to assure that the proper capacitor is now being used on all new L440GX+ boards being assembled.

For those customers wishing to do so, Intel will replace any L440GX+ (product code BOXL440GXG) server board within the affected serial number ranges, free of charge.

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Intel Recommendations
Intel has conducted exhaustive testing to verify continued support for current processors up to and including the 850MHz Pentium III processor. Intel recommends continuing to use the affected product unless future support for the 1 GHz Pentium III processor is required for these boards.

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

Server Products Division (SPD)
Enterprise Server Group (ESG)
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