

intel® Technical Advisory

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Mixing Processors on the L440GX+ Server Board

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Products Affected

L440GX+

Description

Intel recommends using identical stepping processors with the L440GX+ server board whenever possible. Intel does not prevent various stepping Pentium® II processors and Pentium® III processors from working together in these server products, however, Intel can not validate every possible combination of processors. Each new processor stepping is fully validated only with an identical processor. This Technical Advisory outlines the guidelines that should be followed when mixing processors on the L440GX+ server board.

Corrective Action / Resolution

- Pentium® II processors that have a CPUID of 063x(0.35 micron manufacturing process), Pentium® II processors that have a CPUID of 065x(0.25 micron manufacturing process), and Pentium® III processors should never be mixed on the same L440GX+ server board.
- Processor core and bus speeds should never be mixed on the same L440GX+ server board.
- ECC and non-ECC processors should never be mixed on the same L440GX+ server board.
- Processor L2 Cache sizes should never be mixed on the same L440GX+ server board.
- Intel does not validate unlike processor core steppings on the L440GX+ server board, mixing processor core steppings should function correctly. The core processor stepping should not vary by more than one stepping for both processors in the server system. The Primary Processor should be plus or minus one core stepping from the Secondary Processor.

For a complete list of core steppings, core & bus speeds, L2 Cache sizes and CPUID numbers please see the latest Pentium® II processor and Pentium® III processor Specification Updates available on the Intel website:
<http://developer.intel.com/design/processor/>.

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