intel.Technical Advisory

TA-226-2

5200 NE Elam Young Parkway
Hillsboro, OR 97124

November 16, 1999

Care must be taken when removing processors from Grounded Retention Mechanisms (GRMs) on L440GX+ server boards, as possible damage can occur.

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Products Affected
BOXL440GXC, MM# 825642, AA #721242-008
LWBBS, MM# 825452, PBA #704293-50x

Description
Care must be taken when removing Pentium® III processors from the Grounded Retention Mechanisms (GRMs) used on the L440GX+ server board. With the tight grip provided by the GRM, it is possible to damage the GRM, server board, processor slot, and/or processor if the proper processor extraction procedure is not followed. The following procedure is recommended:

> Note: This procedure has been verified in the Intel Astor2 and Columbus III server chassis. The process may vary slightly when using another chassis. Use of additional extraction tools, ie: screwdrivers, pliers, etc… is not recommended as they may slip and damage the board or components on the board.

- It is easiest to remove the processor with the server board mounted in a chassis. This will provide support and help prevent bending of the server board.
- Follow all appropriate Electro-Static Discharge precautions whenever working on or near the server board or any of its add-in components.
- Remove the AC power cord from the power supply. The system AC power is only "Off" if the power cord is removed from the power supply.
- Place the system on its side
- Remove side cover (See your system or chassis documentation for instructions)

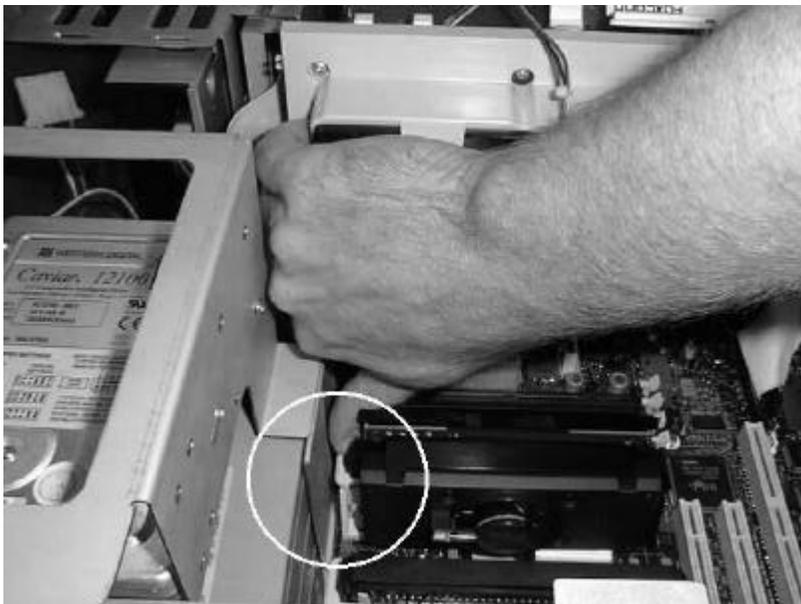# **intel® Technical Advisory**

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- Orient the server board so the white GRMs are on the side farthest away from you.

- With your right thumb, push out the top of the white GRM toward the edge of the board. The GRM is very rigid, so only a small amount of tilt is possible.
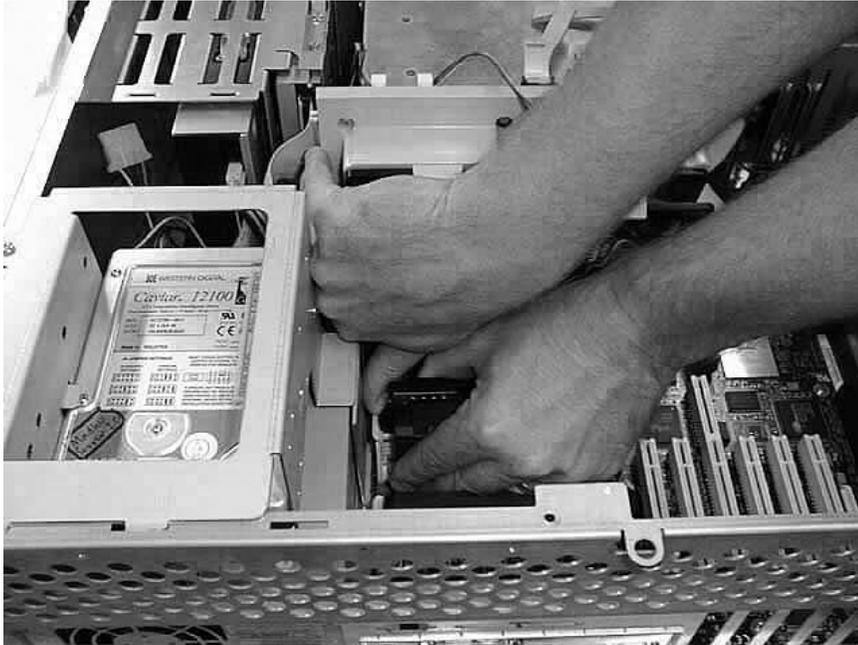
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- While pushing out the white GRM with your right thumb, with your left hand grasp both sides of the processor on the side nearest the white GRM and pull up.

- You should be able to rotate the processor out of the processor slot. Once free of the white GRM, the processor may be removed completely.

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

Entry/Mid-range Server Division
Enterprise Servers Group
Intel Corporation