

intel® Technical Advisory

TA-446-1

5200 NE Elam Young Parkway
Hillsboro, OR 97124

December 10, 2001

Correct Method for Installing STL2 Processor Heatsinks.

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Products Affected

STL2, BTLBB

Description:

If the processor heatsink is not installed correctly, thermal issues could cause system malfunctions.

The correct method of orientation for installing the processor heatsink is as follows:

1. Before inserting the retention clip into the heat sink slot, make sure the plastic pin (see 1 below) is aligned with the heat sink notch (see 2 below). Align the notched side of the heat sink (see 2 below) with the edge of the socket containing the "PG370" designation (see 3 below) and place onto the processor as shown. If there is a white thermal grease pad on the heatsink (about the same size as the processor die, the black square on the top of the processor), be sure to align it with the processor die so that maximum thermal transfer is achieved.

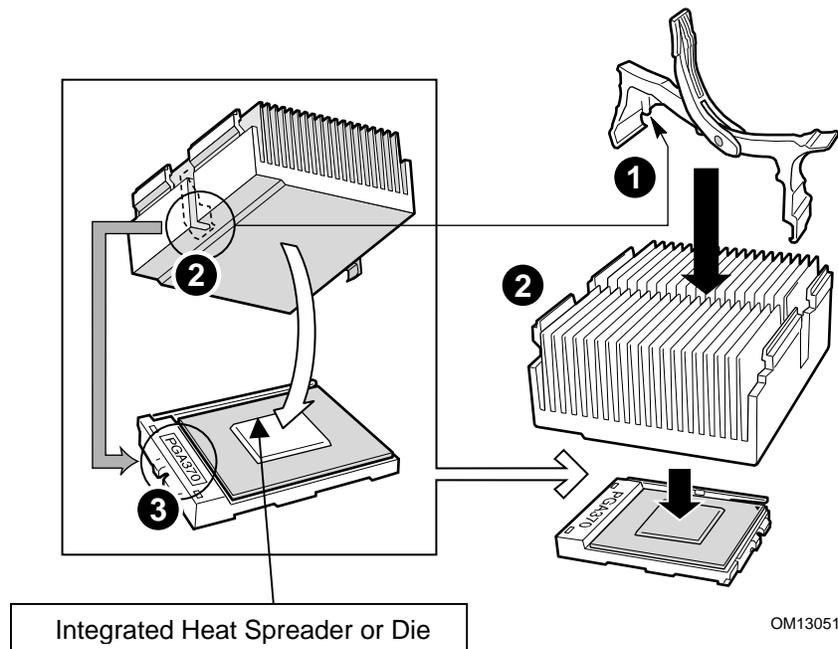


Figure 1. Attaching the Heat Sink and Retention Clip

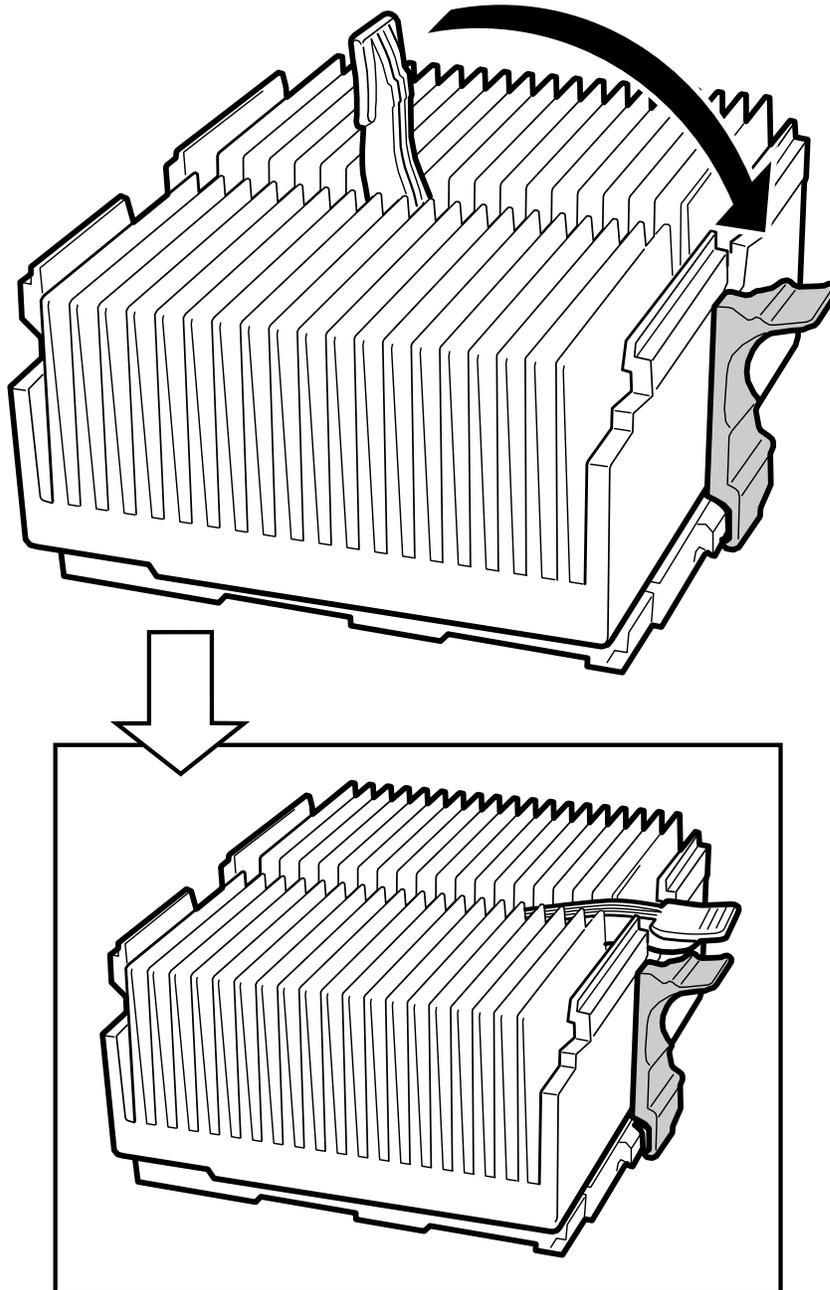
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2. Close the heat sink retention clip as shown. Use slow, constant pressure to close the retention clip lever.



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Figure 2. Locking the Heat Sink Retention Clip

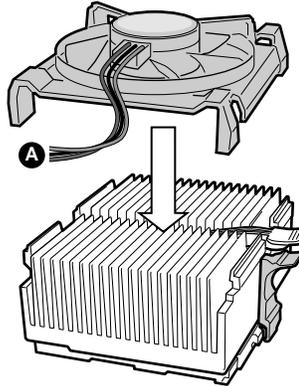
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3. Attach the fan heat sink clip to the processor socket as shown.



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Figure 3. Attaching the Heat Sink Fan

4. Follow the steps in the Quick Start Guide in order to complete the installation.

Root Cause

If the processor heatsink is not installed correctly, the thermal pad or integrated heat spreader does not make solid contact with the heatsink, thereby thermal issues could cause system malfunctions. By installing the heatsink in the correct orientation, the thermal characteristics of the system are within specification, and will prevent system malfunctions.

Corrective Action / Resolution

Intel recommends that customers of the STL2 server board follow the given procedure to install the heatsink in order to avoid system malfunctions.

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

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