



Product Change Notification

106205 – 01

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Should you have any issues with the timeline or content of this change, please contact the Intel Representative(s) for your geographic location listed below. No response from customers will be deemed as acceptance of the change and the change will be implemented pursuant to the key milestones set forth in this attached PCN.

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Product Change Notification

Change Notification #: 106205 - 01
Change Title: Intel® Pentium® 4 Processors 631, 641 and 651, PCN 106205-01, Product Design, C-1 to D-0 Stepping Conversion
Date of Publication: Dec 8, 2006

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

| | Intel® Pentium® 4 Processors 651 | Intel® Pentium® 4 Processors 641, 631 |
|---|----------------------------------|---------------------------------------|
| Date of Samples Availability: | May 26, 2006 | May 26, 2006 |
| Date of Qualification Data Availability: | Nov 07, 2006 | Nov 07, 2006 |
| Date Customer Must be Ready to Receive Post-Conversion Material: | Nov 22, 2006 | Dec 26, 2006 |
| Date of First Availability of Post-Conversion Material: | Nov 22, 2006 | Dec 26, 2006 |

The date of "First Availability of Post-Conversion Material" is the projected date that a customer may expect to receive the Post-Conversion Materials. This date is determined by the projected depletion of inventory at the time of the PCN publication. The depletion of inventory may be impacted by fluctuating supply and demand, therefore, although customers should be prepared to receive the Post-Converted Materials on this date, Intel will continue to ship and customers may continue to receive the pre-converted materials until the inventory has been depleted.

Description of Change to the Customer:

Reason for Revision:

- Adjust the Ready to Receive date for the Intel® Pentium® 4 Processors 641 and 631 to December 26, 2006
- Withdraw/cancel the C-1 to D-0 conversion of the Intel® Pentium® 4 processor 661. Intel has decided to keep the Intel® Pentium® 4 processor 661 on the C-1 stepping through End of Life.

Below is from the Original PCN:

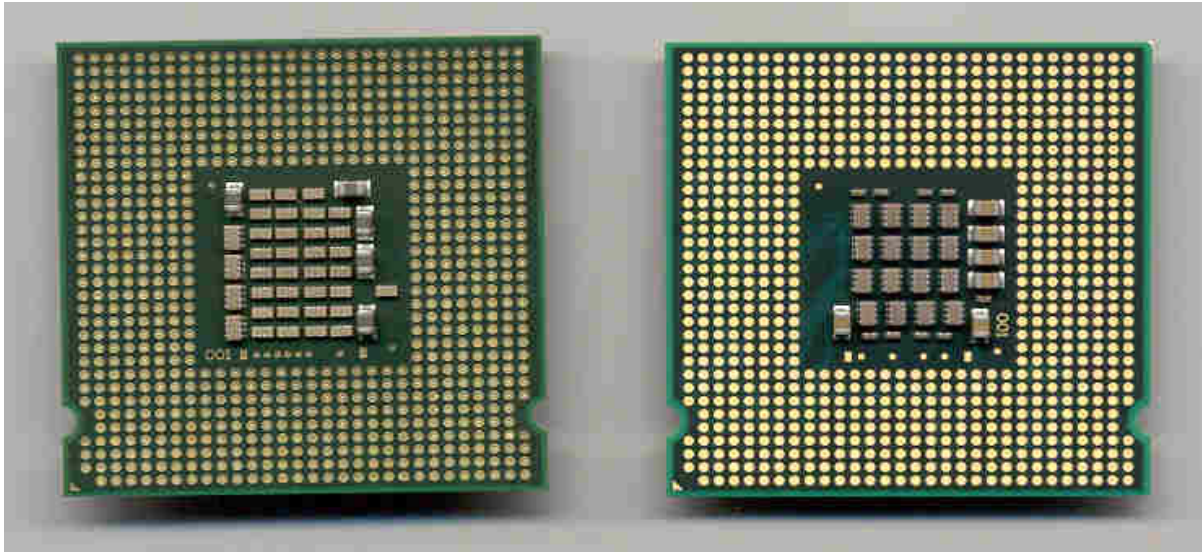
The Intel® Pentium® 4 processors 631, 641, 651 and 661 will undergo the following changes for the C-1 to D-0 processor stepping conversion:

- CPUID will change from F64 to F65.
- New S-specs for converting products.
- Converting products will change from the 2005 Mainstream FMB (95W) to the 2006 FMB (65W)
- TDP will change from 86W to 65W, Max Icc will change from 100A to 65A, Max Icc_StopGrant will change from 50A to 40A, Max Icc_Enhanced_auto_halt will change from 40A to 25A, and thermal profile will change from 05A to 06 thermal profile.

- The Electrical, Mechanical and Thermal Specifications remain within the current specifications. Intel anticipates no changes to current customer platforms designed to Intel guidelines
- Converting products will ship in the Alternate Equivalent package only. While the packages are visually different, Intel anticipates no changes to customer platforms designed to Intel guidelines (Please see below)

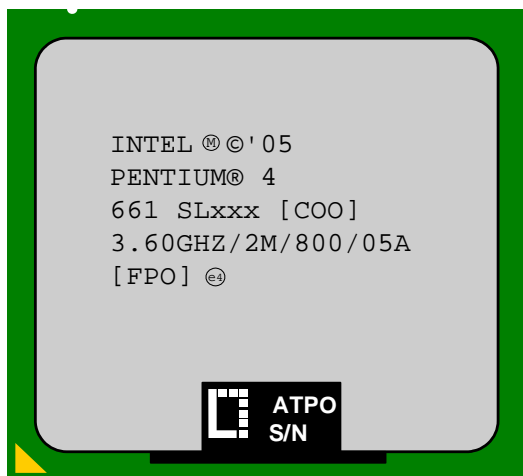
Original Package

Alternate Equivalent Package

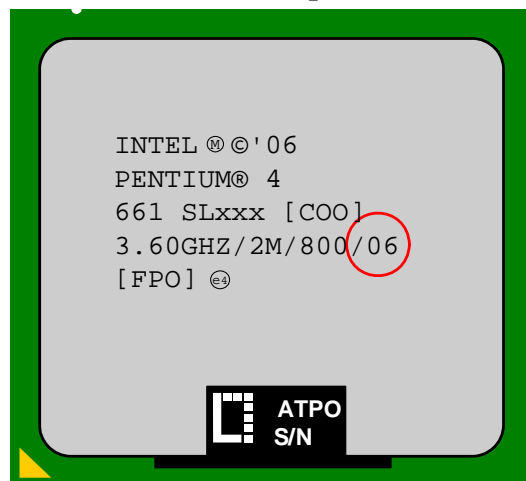


- The Platform Compatibility Guide indicating the processor FMB will be changing from 05 to 06 to the processor mark as illustrated with the following example

C-1 Step



D-0 Step



Please refer to the Intel® Pentium® 4 Processor 6x1 Sequence Datasheet and the Preliminary Intel® Pentium® 4 Processor on 65nm Process Specification Update - NDA for the latest specification information.

Customer Impact of Change and Recommended Action:

New BIOS update will be required for the D-0 step. Intel recommends incremental validation based on the changes listed above. This may include, but not limited to, basic functional testing, thermal/acoustics, BIOS and confidence tests using major operating systems.

Products Affected / Intel Ordering Codes:

| Product Code | Processor Number | Frequency | Pre-Conversion Production Units | | Post-Conversion Qualification Samples | | Post-Conversion Production Units | |
|----------------|------------------|-----------|---------------------------------|--------|---------------------------------------|--------|----------------------------------|--------|
| | | | S-Spec | MM # | QDF # | MM # | S-Spec | MM # |
| HH80552PG0802M | 631 | 3.0 GHz | SL96L | 879054 | QQHU | 882087 | SL9KG | 882914 |
| HH80552PG0882M | 641 | 3.2 GHz | SL96K | 878842 | QQHR | 882085 | SL9KF | 882912 |
| HH80552PG0962M | 651 | 3.4 GHz | SL96J | 879056 | QQHO | 882083 | SL9KE | 882911 |

Reference Documents / Attachments:

Document:

Location #:

PCN Revision History:

Date of Revision:

Revision Number:

Reason:

Aug 24 , 2006
Dec 08, 2006

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01

Originally Published PCN
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