



Product Change Notification

110018 - 00

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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 #: 110018 - 00
Change Title: Intel® Core™ i3-530, i3-540, i5-650, i5-660, i5-661 and i5-670 processors & Intel® Pentium® Processor G6950, PCN 110018-00, Product Design, C2 to K0 Stepping Conversion
Date of Publication: May 13, 2010

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

	Intel® Core™ i3-530, i3-540, i5-650, i5-660, i5-661 and i5-670 Processors	Intel® Pentium® Processor G6950
Date of Samples Availability:	Jun 14, 2010	Jun 14, 2010
Date of Qualification Data Availability:	Jul 05, 2010	Jul 05, 2010
Date Customer Must be Ready to Receive Post-Conversion Material:	Aug 23, 2010	Aug 23, 2010
Date of First Availability of Post-Conversion Material:	Jul 05, 2010	Aug 23, 2010

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:

Intel is initiating a C-2 to K-0 stepping conversion for the Intel® Core™ i3-530, i3-540, i5-650, i5-660, i5-661 and i5-670 processors & Intel® Pentium® Processor G6950 where they will undergo the following changes::

- . New S-spec and MM numbers for the converting products
- . Extended CPUID will change from 0x00020652 to 0x00020655
- . Host RevID will change from 0x12 to 0x18
- . K0 stepping package is pin compatible with C2 stepping package
- . Adds Processor Context ID (PCID) support

Customer Impact of Change and Recommended Action:

Intel anticipates no change to customer platforms designed to Intel guidelines. Minimal re-qualification and/or validation are expected for features already supported on the C2 stepping.

Intel® Core™ i3-530, i3-540, i5-650, i5-660, i5-661 and i5-670 processors & Intel® Pentium® Processor G6950 on K0 stepping will require a BIOS update. With the BIOS update implemented both C2 and K0 stepping processors will be supported. For customers implementing their own BIOS, it is necessary to incorporate the latest Microcode Update (MCU) to support the K-0 stepping. Please contact your local Intel representative for further technical questions.

Customer should update to the latest Intel Integrated Graphics drivers for K-0 step processors. Customers who want to continue using the Intel® Stable Image Platform Program (Intel® SIPP) drivers with K-0 step processors should confirm BIOS support for Compatibility Rev ID (CRID). More information is available in the *WW15 2010: Clarkdale, Lynnfield & Ibex Peak Based Platforms Field Message of the Week*

Customers should be ready to receive a combination of C2 stepping material and K0 stepping material by the "Date Customer Must be Ready to Receive Post-Conversion Material" as shown in the milestones above.

For details of the new features and specifications, please refer to *Intel® Core™ i5-600, i3-500 Desktop Processor Series, Intel® Pentium® Processor G6950, and Intel® Xeon® Processor L3406 External Design Specification - Volume 1 - Rev. 2.0.*

Products Affected / Intel Ordering Codes:

Proc#	GHz	Pre Conversion				Qualification Samples		Post Conversion			
		Product Code	S-Spec	MM#	Stepping	QDF	MM#	Product Code	S-Spec	MM#	Stepping
i5-670	3.46	CM80616004641AB	S LBLT	904342	C2	Q 4DK	907907	CM80616004641AB	S LBTL	907934	K0
i5-661	3.33	CM80616004794AA	S LBNE	904349	C2	Q 4DL	907908	CM80616004794AA	S LBTB	907925	K0
i5-660	3.33	CM80616003177AC	S LBLV	904343	C2	Q 4DE	907901	CM80616003177AC	S LBTK	907933	K0
i5-650	3.20	CM80616003174AH	S LBLK	904340	C2	Q 4DC	907899	CM80616003174AH	S LBTJ	907932	K0
i3-540	3.06	CM80616003060AE	S LBMQ	904344	C2	Q 4DA	907898	CM80616003060AE	S LBTD	907927	K0
i3-530	2.93	CM80616003180AG	S LBLR	904341	C2	Q 4ME	907913	CM80616003180AG	S LBX7	907938	K0
G6950	2.80	CM80616004593AE	S LBMS	904346	C2	Q 4DH	907904	CM80616004593AE	S LBTG	907931	K0

Reference Documents / Attachments:

Document:

Location #:

PCN Revision History:

Date of Revision:

May 13, 2010

Revision Number:

00

Reason:

Originally Published PCN