Product Change Notification

104101 – 00

Should you have any issues with the timeline or content of this change, please contact the Intel Representative(s) for your geography 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.

Americas Contact: asmo.pcn@intel.com

Asia Pacific Contact: apacgccb@intel.com

Europe Email: eccb@intel.com

Japan Email: jccb.ijkk@intel.com

Product Change Notification

Change Notification #:   104101 - 00

Change Title: **Desktop Intel® Pentium® 4 Processor on 90nm Process Technology, PCN 104101-00, FFF, Stepping change D-0 to E-0 Stepping Conversion for Desktop Tray**

Date of Publication: **May 26, 2004**

Type of Change Notification:

FFF - (Form-Fit-Function)

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

Date of Samples Availability:	July 06, 2004 – July 30, 2004
Date of Qualification Data Availability:	September 17, 2004
Date Customer Must be Ready to Receive Post-Conversion Material:	October 01, 2004
Date of First Availability of Post-Conversion Material:	October 01, 2004

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:

Desktop Intel® Pentium® 4 Processor on the 90nm Process Technology will undergo the following changes for the D-0 to the E-0 core processor stepping change:

- The conversion to E-0 Step will incorporate power optimizations to enable speed enhancements
  - Includes Execute Disable Bit support and additional power management features (LGA775 only)
  - The CPU ID will change from 0xF34h to 0xF41h
  - Updated BIOS required
  - E-0 is pin compatible with D-0
  - Data Sheet available July 14, 2004
- New S-Specs for affected product line items
- Customer samples will be provided. Customer qualification required

Customer Impact of Change and Recommended Action:

Although no significant changes are expected in electrical and thermal specifications relative to the D-0 stepping, it is recommended that you complete a full qualification with the Desktop Intel® Pentium® 4 Processor based on the new E-0 stepping core.

Products Affected / Intel Ordering Codes:

Desktop Intel® Pentium® 4 Processor – mPGA478

Product Code	Frequency	Pre-Conversion Production Units		Post-Conversion Qualification Samples		Post-Conversion Production Units	
		S-Spec	MM #	QDF #	MM #	S-Spec	MM #
RK80546PG0961M	3.40 GHz 800 FSB	SL7E6	859165	Q59U	863595	SL7PP	862839
RK80546PG0881M	3.20 GHz 800FSB	SL7E5	859164	Q20U	863599	SL7PN	862840
RK80546PG0801M	3 GHz 800 FSB	SL7E4	859163	Q21U	863609	SL7PM	862842
RK80546PG0721M	2.80 GHz 800 FSB	SL7E3	859162	Q22U	863612	SL7PL	862843
RK80546PE0721M	2.80 GHz 533 FSB	SL7E2	859161	Q00V	863885	SL7PK	862844

Desktop Intel® Pentium® 4 Processor – LGA775 with EM64T

Product Code	Frequency	Pre-Conversion Production Units		Post-Conversion Qualification Samples		Post-Conversion Production Units	
		S-Spec	MM #	QDF #	MM #	S-Spec	MM #
JM80547PG1041M	3.60 GHz 800 FSB	SL7L9	861910	Q76Y	862599	SL7NZ	862880
JM80547PG0961M	3.40 GHz 800 FSB	SL7L8	861916	Q88X	862551	SL7PZ	862876
JM80547PG0881M	3.20 GHz 800 FSB	SL7LA	861909	Q99X	862557	SL7PX	862866

Desktop Intel® Pentium® 4 Processor – LGA775

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 #
JM80547PG1041M	560	3.60 GHz 800 FSB	SL7J9	861639	Q75Y	862598	SL7Q2	862879
JM80547PG0961M	550	3.40 GHz 800 FSB	SL7J8	861638	Q87X	862550	SL7PY	862867
JM80547PG0881M	540	3.20 GHz 800 FSB	SL7J7	861637	Q98X	862556	SL7PW	862865
JM80547PG0801M	530	3 GHz 800 FSB	SL7J6	861636	Q09X	862562	SL7PU	862862
JM80547PG0721M	520	2.80 GHz 800 FSB	SL7J5	861635	Q20Y	862568	SL7PR	862852

Reference Documents / Attachments:

Document:	Location #:
Desktop Intel® Pentium® 4 Processor supporting Hyper-Threading Technology Data Sheet	Available from your Intel representative beginning on July 14, 2004.

PCN Revision History:

Date of Revision:	Revision Number:	Reason:
May 26, 2004	00	Originally Published PCN