

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JUN ZHU</td> <td>11/16/2012</td> </tr> <tr> <td>JOSEPH JUN CAO</td> <td>11/16/2012</td> </tr> <tr> <td>SHENG LU</td> <td>11/16/2012</td> </tr> <tr> <td>PANTAS SUTARDJA</td> <td>11/16/2012</td> </tr> </tbody> </table>		Name	Execution Date	JUN ZHU	11/16/2012	JOSEPH JUN CAO	11/16/2012	SHENG LU	11/16/2012	PANTAS SUTARDJA	11/16/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>MARVELL SEMICONDUCTOR, INC.</td> </tr> <tr> <td>Street Address:</td> <td>5488 MARVELL LANE</td> </tr> <tr> <td>City:</td> <td>SANTA CLARA</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95054</td> </tr> </table>		Name:	MARVELL SEMICONDUCTOR, INC.	Street Address:	5488 MARVELL LANE	City:	SANTA CLARA	State/Country:	CALIFORNIA	Postal Code:	95054
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CORRESPONDENCE DATA											
<p>Fax Number: 4082222755 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 4082222500 Email: CAROLYNS@MARVELL.COM</p> <p>Correspondent Name: HORACE NG Address Line 1: 5488 MARVELL LANE Address Line 4: SANTA CLARA, CALIFORNIA 95054</p>											
ATTORNEY DOCKET NUMBER:	MP4420										
NAME OF SUBMITTER:	HORACE NG										
<p>Total Attachments: 3 source=MP4420_EXECUTED ASSIGNMENT INV TO MSI#page1.tif source=MP4420_EXECUTED ASSIGNMENT INV TO MSI#page2.tif source=MP4420_EXECUTED ASSIGNMENT INV TO MSI#page3.tif</p>											

OP \$40.00 13682552

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Jun Zhu; Joseph Jun Cao; Sheng Lu and Pantas Sutardja

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

**PROVIDING LOW-LATENCY ERROR CORRECTING CODE
CAPABILITY FOR MEMORY**

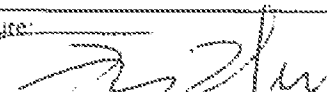
Do hereby sell, assign and transfer to Marvell Semiconductor, Inc., a corporation of California, having a place of business at 5488 Marvell Lane, Santa Clara, CA 95054, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

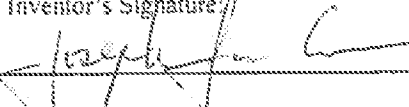
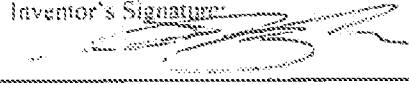
Do hereby further sell, assign and transfer to Marvell Semiconductor, Inc., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Application(s) No(s). 61/623,864, filed April 13, 2012, and 61/563,368, filed November 23, 2011, entitled Method of Low Latency ECC for non-ECC DDR Interface Configuration, and to any and all inventions described in said provisional patent application(s) for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be entitled to the benefit thereof in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that Marvell Semiconductor, Inc., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

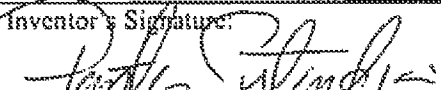
IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of First Inventor:	
Jun Zhu	
Inventor's Signature:	Date: Month/Day/Year
	11/16/2012

Full Name of Second Inventor:	
Joseph Jun Cao	11/16/2012
Inventor's Signature:	Date: Month/Day/Year
	
Full Name of Third Inventor:	
Sheng Lu	
Inventor's Signature:	Date: Month/Day/Year
	11/16/12
Full Name of Fourth Inventor:	
Pantas Sutardja	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Second Inventor:	
Joseph Jun Cao	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Third Inventor:	
Sheng Lu	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Fourth Inventor:	
Pantas Sulardja	
Inventor's Signature: 	Date: Month/Day/Year 11/16/2012