

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHN W. NICHOLSON	03/22/2016
MICHAEL T. VANOVER	03/22/2016
JIANBANG ZHANG	03/22/2016
JASON A. MATTESON	03/22/2016
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<b>Postal Code:</b>	556741
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15077635
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	XRPS920150184-US-NP
<b>NAME OF SUBMITTER:</b>	BRUCE RAY NEEDHAM
<b>SIGNATURE:</b>	/Bruce R. Needham/
<b>DATE SIGNED:</b>	03/22/2016
<b>Total Attachments: 3</b>	
source=XRPS920150184-US-NP_Signed_Assignment-Declaration#page1.tif	
source=XRPS920150184-US-NP_Signed_Assignment-Declaration#page2.tif	
source=XRPS920150184-US-NP_Signed_Assignment-Declaration#page3.tif	

**ASSIGNMENT AND DECLARATION FOR PATENT AND DESIGN APPLICATIONS  
USING AN APPLICATION DATA SHEET**

Title of Invention: WORKLOAD PLACEMENT BASED ON HETEROGENEOUS COMPUTE  
PERFORMANCE PER WATT

Under Attorney Docket Number: XRPS920150184-US-NP

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

United States application or PCT international application number \_\_\_\_\_  
filed on \_\_\_\_\_

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by Docket Number provided above in the header of this document;

Whereas, **Lenovo Enterprise Solutions (Singapore) Pte. Ltd.**, a corporation of Singapore, having a place of business at 151, Lorong Chuan #02-01, New Tech Park, Singapore 556741, (hereinafter called Lenovo), desires to acquire the entire right, title and interest in the application and invention, and to any United States and foreign patents to be obtained therefor;

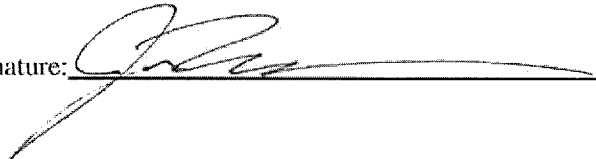
Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I/we, the above named, hereby acknowledge my/our prior existing obligation and hereby sell, assign, and transfer to Lenovo, its successors and assigns, the entire right, title and interest in the application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of the United States application, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to Lenovo, its successors and assigns; and I/we hereby agree that Lenovo may apply for foreign Letters Patent on the invention and I/we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by Lenovo.

The undersigned hereby grants permission to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

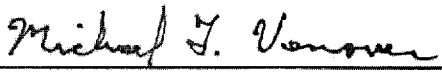
The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: JOHN W. NICHOLSON

Signature:  \_\_\_\_\_ Date: 22 MAR 2016

(2) Legal Name of Inventor: MICHAEL T. VANOVER

Signature:  \_\_\_\_\_ Date: 22 MAR 2016

(3) Legal Name of Inventor: JIANBANG ZHANG

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: JASON A. MATTESON

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

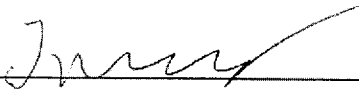
(1) Legal Name of Inventor: JOHN W. NICHOLSON

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(2) Legal Name of Inventor: MICHAEL T. VANOVER

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: JIANBANG ZHANG

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[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]