

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>Edmund B. Nightingale</td> <td>06/19/2012</td> </tr> <tr> <td>Brian LaMacchia</td> <td>06/19/2012</td> </tr> <tr> <td>Paul Barham</td> <td>06/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Edmund B. Nightingale	06/19/2012	Brian LaMacchia	06/19/2012	Paul Barham	06/20/2012		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Microsoft Corporation</td> </tr> <tr> <td>Street Address:</td> <td>One Microsoft Way</td> </tr> <tr> <td>City:</td> <td>Redmond</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98052</td> </tr> </table>		Name:	Microsoft Corporation	Street Address:	One Microsoft Way	City:	Redmond	State/Country:	WASHINGTON	Postal Code:	98052
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PROPERTY NUMBERS Total: 1											
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Application Number:	13528329										
CORRESPONDENCE DATA											
<p>Fax Number: (425)936-7329</p> <p>Phone: 425-707-9382</p> <p>Email: vffiling@microsoft.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Assal Meftahi</p> <p>Address Line 1: One Microsoft Way</p> <p>Address Line 2: Patent Group Docketing Dept.</p> <p>Address Line 4: Redmond, WASHINGTON 98052</p>											
ATTORNEY DOCKET NUMBER:	335401.01										
NAME OF SUBMITTER:	Peter J. Gordon										
Total Attachments: 5											

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WE, Edmund B. Nightingale, Brian LaMacchia and Paul Barham ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "UPDATING HARDWARE LIBRARIES FOR USE BY APPLICATIONS ON A COMPUTER SYSTEM WITH AN FPGA COPROCESSOR" ("APPLICATION"), which:

☒ will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052, who are associated with customer number 69316, to insert here in parenthesis (Application No. 13/528,329, filed 6-20-12) this APPLICATION's Application No. and filing date, when known;


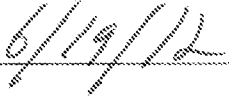
☐ was filed on _____ and was given Application No. _____;

☐ is filed concurrently herewith;

Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

 Inventor's Signature	 Date
Edmund B. Nightingale Printed Name in English	 Printed Name in Native Language (if other than English)

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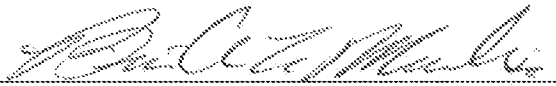
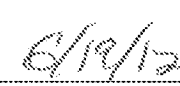
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Printed Name in English	Printed Name in Native Language (if other than English)

Inventor's Signature	Date
Paul Barham	
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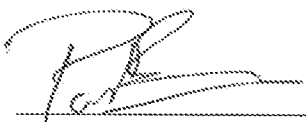
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_____  Inventor's Signature	_____ 20 th JUNE 2012 Date
_____ Paul Barham	_____ Printed Name in Native Language (if other than English)
_____ Printed Name in English	