

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>Lawrence Y. Chiu</td> <td>01/04/2012</td> </tr> <tr> <td>Shan Fan</td> <td>01/05/2012</td> </tr> <tr> <td>Yang Liu</td> <td>01/05/2012</td> </tr> <tr> <td>Mei Mei</td> <td>01/05/2012</td> </tr> <tr> <td>Paul H. Muench</td> <td>01/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Lawrence Y. Chiu	01/04/2012	Shan Fan	01/05/2012	Yang Liu	01/05/2012	Mei Mei	01/05/2012	Paul H. Muench	01/04/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>International Business Machines Corporation</td> </tr> <tr> <td>Street Address:</td> <td>New Orchard Road</td> </tr> <tr> <td>City:</td> <td>Armonk</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10504</td> </tr> </table>		Name:	International Business Machines Corporation	Street Address:	New Orchard Road	City:	Armonk	State/Country:	NEW YORK	Postal Code:	10504		
Name:	International Business Machines Corporation												
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CORRESPONDENCE DATA													
<p>Fax Number: (801)531-1929 Phone: 801-994-4646 Email: heather@kunzlerip.com <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: Kunzler Needham Massey & Thorpe Address Line 1: 8 EAST BROADWAY Address Line 2: SUITE 600 Address Line 4: SALT LAKE CITY, UTAH 84111</p>													
ATTORNEY DOCKET NUMBER:	TUC920110149US1												
NAME OF SUBMITTER:	Brian C. Kunzler												

CH \$40.00 13344313

Total Attachments: 4

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ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: **A FAULT TOLERANT SYSTEM IN A LOOSELY-COUPLED CLUSTER ENVIRONMENT**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application No.: 13/344,313 (insert series code /serial number here if/when available)

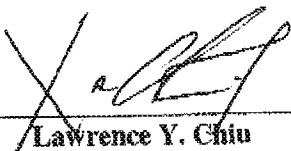
Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

[Inventor Signature Page(s) Follows]

Executed by Inventor 1

Signature:  Date: 1/4/2012
Lawrence Y. Chiu

Executed by Inventor 2

Signature: _____ Date: _____
Shan Fan


Executed by Inventor 3

Signature: _____ Date: _____
Yang Liu

Executed by Inventor 4

Signature: _____ Date: _____
Mei Mei

Executed by Inventor 5

Signature:  Date: 1/4/2012
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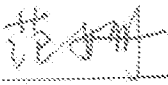
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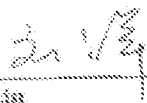
Executed by Inventor 1

Signature: _____ Date: _____
Lawrence Y. Chiu

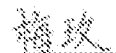
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Signature:  _____ Date: 01/05/2012
Shan Fan

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Yang Liu

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Signature:  _____ Date: 01/05/2012
Mei Mei

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Signature: _____ Date: _____
Paul H. Muench