

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>Ziye Yang</td> <td>07/06/2012</td> </tr> <tr> <td>Haifeng Fang</td> <td>07/04/2012</td> </tr> <tr> <td>David Black</td> <td>07/09/2012</td> </tr> </tbody> </table>		Name	Execution Date	Ziye Yang	07/06/2012	Haifeng Fang	07/04/2012	David Black	07/09/2012
Name	Execution Date								
Ziye Yang	07/06/2012								
Haifeng Fang	07/04/2012								
David Black	07/09/2012								
RECEIVING PARTY DATA									
Name:	EMC Corporation								
Street Address:	176 South Street								
City:	Hopkinton								
State/Country:	MASSACHUSETTS								
Postal Code:	01748								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13536099</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13536099				
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Application Number:	13536099								
CORRESPONDENCE DATA									
Fax Number:	5167599512								
Phone:	516-759-2722								
Email:	nyoffice@rml-law.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
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Address Line 2:	Ryan, Mason & Lewis, LLP								
Address Line 4:	Locust Valley, NEW YORK 11560								
ATTORNEY DOCKET NUMBER:	EMC-11-899								
NAME OF SUBMITTER:	William E. Lewis								
Total Attachments: 4 source=4414-131_ASM#page1.tif source=4414-131_ASM#page2.tif source=4414-131_ASM#page3.tif source=4414-131_ASM#page4.tif									

OP \$40.00 13536099

ASSIGNMENT

WHEREAS, we, Ziye Yang, Haifeng Fang and David Black, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled **MEASUREMENT OF INPUT/OUTPUT SCHEDULING CHARACTERISTICS IN DISTRIBUTED VIRTUAL INFRASTRUCTURE**, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on June 28, 2012 as U.S. Application No. 13/536,099;
- was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution,

reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: July 6, 2012

Ziye Yang
Inventor's Signature

Print full name of first inventor:

Ziye Yang

Residence:

Shanghai, China

Citizenship:

China

Mailing Address:

2F, Building #2, KIC Plaza
No 252 Songhu Road, Yangpu District
Shanghai 200433 China

2012.7.6
Date

Tomy Wan
Witness #1 Signature

Tomy Wan
Witness #1 Print Name

2012.7.6
Date

Peter Chen
Witness #2 Signature

Peter Chen
Witness #2 Print Name

Date: 2012-7-4

Haifeng Fang (方海峰)
Inventor's Signature

Print full name of second inventor:
Residence:
Citizenship:
Mailing Address:

Haifeng Fang
Beijing, China
China
19th Floor, Block D, SP Tower
Tsinghua Science Park
1 Zhongguancun East Road, Haidian District
Beijing 100084 China

July 6, 2012
Date

王天青
Witness #1 Signature

Tianqing Wang
Witness #1 Print Name

July 6, 2012
Date

陈齐彦
Witness #2 Signature

Qiyan Chen
Witness #2 Print Name

Date: July 9, 2012

David S. Black
Inventor's Signature

Print full name of third inventor: David Black
Residence: Acton, Massachusetts
Citizenship: United States of America
Mailing Address: 237 Central Street
Acton, Massachusetts 01720

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 9th day of July, 2012, then personally appeared before me the above-named David Black known to me through satisfactory evidence of identification [] employee identification card; [] driver's license; [] (other) personally known to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Jeannette M. Thomas
Notary Public
Print Name: Jeannette M. Thomas
My Commission expires 1/31/2014

