

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Ravi K. Arimilli</td><td>01/31/2008</td></tr><tr><td>Balaram Sinharoy</td><td>01/31/2008</td></tr><tr><td>William E. Speight</td><td>01/31/2008</td></tr><tr><td>Lixin Zhang</td><td>01/31/2008</td></tr></tbody></table>	Name	Execution Date	Ravi K. Arimilli	01/31/2008	Balaram Sinharoy	01/31/2008	William E. Speight	01/31/2008	Lixin Zhang	01/31/2008	
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Ravi K. Arimilli	01/31/2008										
Balaram Sinharoy	01/31/2008										
William E. Speight	01/31/2008										
Lixin Zhang	01/31/2008										
RECEIVING PARTY DATA											
Name:	International Business Machines Corporation										
Street Address:	New Orchard Road										
City:	Armonk										
State/Country:	NEW YORK										
Postal Code:	10504										
PROPERTY NUMBERS Total: 1											
<table><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12024186</td></tr></tbody></table>	Property Type	Number	Application Number:	12024186							
Property Type	Number										
Application Number:	12024186										
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Total Attachments: 2											

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PATENT
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ASSIGNMENT

Whereas, we,

- | | |
|---|--|
| (1) <u>RAVI K. ARMILLI</u>
County of TRAVIS | of AUSTIN
and State of TEXAS |
| (2) <u>BALARAM SINHAROY</u>
County of DUTCHESS | of POUGHKEEPSIE
and State of NEW YORK |
| (3) <u>WILLIAM E. SPEIGHT</u>
County of TRAVIS | of AUSTIN
and State of TEXAS |
| (4) <u>LIXIN ZHANG</u>
County of TRAVIS | of AUSTIN
and State of TEXAS |

have invented certain improvements in

TECHNIQUES FOR DATA PREFETCHING USING INDIRECT ADDRESSING

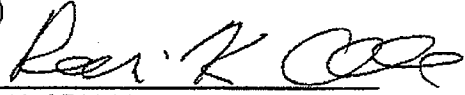
and executed, respectively, a United States patent application therefore on

(Dates Inventors Signed Declaration) (1) 1/31, (2008); (2) 1/31, (2008);
(3) 1/31, (2008); (4) 1/31, (2008).

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

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

(1) Signed at Austin, TX on 1/31, 2008.
(City) (Date)


RAVI K. ARMILLI

(2) Signed at AUSTIN, TX on 1/31, 2008.
(City) (Date)


BALARAM SINHAROY

(3) Signed at Austin on 1/31, 2008.
(City) (Date)


WILLIAM E. SPEIGHT

(4) Signed at Austin on 01-31, 2008.
(City) (Date)


LIXIN ZHANG