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DOCKET: ST995008

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US Department of Commerce Patent & Trademark Office

Nimrod Megiddo Vivek Sarkar Name: International Business Machines Corporation Street Address: New Orchard Road City: Armonk State: NY ZIP: 105 Additional name(s) of conveying party(ies) attached _Yes XX No Nature of conveyance: XX Assignment Execution Date:10/11/97; 10/21/97 Additional name(s) & address(es) attached Yes XX No Application number(s) or patent number(s): 08/900,767 If this document is being filed together with a new application, the execution date of application is: A. Patent Application No.(s) (08/900,767) Additional numbers attached? _Yes XX No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: IBM Corporation Internal You Prentiss Johnson Address: Street Address: 555 Bailey Avenue (146/6467) San Jose, CA 95141-1003 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct any distached copy is a true copy of the original document. Prentiss W. Johnson Street Address: New Orchard Road City: Armonk State: NY ZIP: 105 Additional name(s) & address (es) attached City: Armonk State: NY ZIP: 105 Additional name(s) & address (es) attached City: Armonk State: NY ZIP: 105 Additional name(s) & address (es) attached Yes XX No Becution Date:10/11/97; 10/21/97 B. Patent No.(s) 6. Total Number of applications and patinoved: One Enclosed XX Authorized to be charged to deposit account Number: (Attach copy of this page) 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct any distached copy is a true copy of the original document. Prentiss W. Johnson Date Street Address: July 21/97 Additional name(s) & address (es) attached city Internation is true and correct any distached copy is a true copy of the original document.		the Honorable Commissioner of Patents an cuments or copy thereof.	d Trademarks: Please record the attached original
Name: International Business Machines Corporation OR 900767 Additional name(s) of conveying party(ies) attached _Yes XX No 3. Nature of conveyance: XX Assignment	L.	Name of conveying party(ies):	* 2. Name and address of receiving party(ies):
Additional name(s) of conveying party(ies) attached Yes XX No 3. Nature of conveyance: XX Assignment			 Name: International Business Machines Corporation
Additional name(s) of conveying party(ies) attached Yes XX No * Additional name(s) & address(es) attached * Yes XX No 3. Nature of conveyance: XX Assignment		08/900767	* City: Armonk State: NY ZIP: 10504 *
Execution Date:10/11/97; 10/21/97 1. Application number(s) or patent number(s): 08/900,767 If this document is being filed together with a new application, the execution date of application is: A. Patent Application No.(s) * B. Patent No.(s) * Additional numbers attached?Yes XX No 5. Name and address of party to whom correspondence concerning document should be mailed: * Name: IBM Corporation Internal c/o Prentiss Johnson Address: Intellectual Property Law Street Address: 555 Bailey Avenue (J46/G467) San Jose, CA 95141-1003 * 8. Deposit Account Number: * O9- * (Attach copy of this page) 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct any Attached copy is a true copy of the original document. ** Prentiss W. Johnson * Date			* Additional name(s) & address(es) attached?
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If this document is being filed together with a new application, the execution date of application is: A. Patent Application No.(s) * B. Patent No.(s) * Additional numbers attached?Yes XX No 5. Name and address of party to whom correspondence concerning document should be mailed: * Name: IBM Corporation	199		Execution Date:10/11/97; 10/21/97
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5. Name and address of party to whom correspondence concerning document should be mailed: Name: IBM Corporation			
S. Name and address of party to whom correspondence concerning document should be mailed: Name: IBM Corporation		Additional numbers	attached?Yes XX No
Name: IBM Corporation	5.	correspondence concerning document	 * 6. Total Number of applications and patents * involved: One
* 8. Deposit Account Number: 09- * (Attach copy of this page) 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct any attached copy is a true copy of the original document. Prentiss W. Johnson Date		Internal c/o Prentiss Johnson Address: Intellectual Property Law Street	<pre>* 7. Total fee (37 CFR 3.41)\$ 40.00 *</pre>
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Prentiss W. Johnson Date	9.	To the best of my knowledge and belief, any attached copy is a true copy of the	the foregoing information is true and correct and original document.
Total number of pages including cover sheet, attachments, and document: /7/		Prentiss W. Johnson Total number of pages including cover sh	Date neet, attachments, and document: /7/

PATENT REEL: 9468 FRAME: 0151 Whereas, we

INVENTOR

AND CITY

(1) Nimrod Megiddo County of Santa Clara

of Palo Alto,

and State of California,

and (2) Vivek Sarkar County of Middlesex

of **Newton**,

and State of Massachusetts,

have invented certain improvements in

TITLE

METHOD OF, SYSTEM FOR, AND COMPUTER PROGRAM PRODUCT FOR MINIMIZING LOOP EXECUTION TIME BY OPTIMIZING BLOCK/TILE SIZES

DATES THAT INVENTORS SIGNED THE DECLARATION and executed, respectively, a United States patent application therefor on

(1) October 11 , 1997, (2) _____, 1997.

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 therefor;

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 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 inventions 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.

Min March

CITY DATE	(1) at Jan Jose on 10 11/67, 1997,	Nimrod Megiddo	SIGNATURE INVENTOR
CITY DATE	and (2) at, 1997 ,	Vivek Sarkar	SIGNATURE INVENTOR

PATENT **REEL: 9468 FRAME: 0152**

Whereas, we INVENTOR (1) Nimrod Megiddo AND CITY of Palo Alto, County of Santa Clara and State of California, and (2) Vivek Sarkar of **Newton**. County of Middlesex and State of Massachusetts, have invented certain improvements in METHOD OF, SYSTEM FOR, AND COMPUTER PROGRAM PRODUCT FOR MINIMIZING LOOP TITLE EXECUTION TIME BY OPTIMIZING BLOCK/TILE SIZES DATES THAT and executed, respectively, a United States patent application therefor on INVENTORS (1) _____, 1997, (2) October 21 ___, 1997. SIGNED THE DECLARATION 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 therefor; 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 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 inventions 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. Signed (1) at ______, 1997, Nimrod Megiddo SIGNATURE CITY INVENTOR DATE

and (2) at Cambridge, MA Vivek Soekas SIGNATURE on October 21, 1997, Vivek Sarkar INVENTION

CITY

RECORDED: 09/01/1998

PATENT REEL: 9468 FRAME: 0153