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To the Honorable Commissioner of Patents, Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Rajeev Balasubramonian, David Albonesi Alper Buyuktosunoglu and Sandhya Dwarkadas

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):

Name: UNIVERSITY OF ROCHESTER

Address: 518 Hylan Building Rochester, New York 14627

3. Nature of Conveyance:

4-18-01

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: April 11, 2001

Additional name(s) and address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/708,727

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

BLANK ROME COMISKY & MCCAULEY LLP THE FARRAGUT BUILDING SUITE 1000 900 17<sup>TH</sup> STREET, NW WASHINGTON, DC 20006

6. Total applications and patents involved:

7. Total fee (37 CFR 3.41): \$40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 23-2185 (Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

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Name of Person Signing

Signature

April 18, 2001

Date

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PATENT REEL: 012006 FRAME: 0413

**ASSIGNMENT**

THIS ASSIGNMENT, made on the date set forth below by Rajeev Balasubramonian, residing at 216-A Conant Rd., Rochester, New York 14623, David Albonesi residing at 2389 Doran Rd., Lima, New York 14485, Alper Buyuktosunoglu residing at 60 Crittenden Blvd. Apt #734, Rochester, New York, 14620, Sandhya Dwarkadas residing at, 1111 Lac de Ville Blvd., #411, Rochester, New York, 14618 (hereinafter referred to as the assignors), witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in **Memory Hierarchy Reconfiguration for Energy and Performance In General-Purpose Processor Architectures** set forth in an application for Letters Patent of the United States, filed on November 9, 2000 and accorded Serial No. 09/708,727; and

WHEREAS, UNIVERSITY OF ROCHESTER, an educational institution duly organized under and pursuant to the laws of the State of New York, having its principal place of business at 518 Hylan Building, Rochester, New York 14627 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the said assignors have sold, assigned, transferred and set over, and by these presents do sell, transfer and set over, unto the assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted

therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the said assignee, for its own use and behoof and the use and behoof of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, the said assignors hereby covenant and agree to and with the said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, the said assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that the said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, the said assignors hereby covenant and agree to and with the said assignee, its successors, legal representatives and assigns, that the said assignors will, whenever counsel of the said assignee or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, that any division, continuation or continuation-in-part of any application for Letters Patent, or reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the

procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to the said assignee, its successors, legal representatives and assigns, but at the cost and expense of the said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to the said assignee, as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use and behoof of the said assignee, its successors, legal representatives and assigns.

The undersigned hereby grant the firm of BLANK ROME COMISKY & McCAULEY LLP, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.