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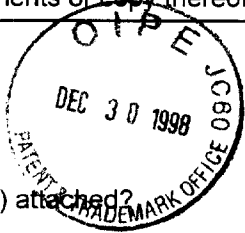
U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 06502.0129-00000

To the Assistant Commissioner of Patents and Trademarks:
Please record the attached original documents or copy thereof.

ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies):
Sheng LIANG



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

Name: SUN MICROSYSTEMS, INC.

Internal Address: MS PAL01-521

Street Address: 901 San Antonio Road

City: Palo Alto

State: CA Zip: 94303

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

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: December 18, 1998

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

A. Patent Application Number(s):
09/069,088

B. Patent Number(s):
N/A

Additional numbers attached? No

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

Name: Jeffrey A. Berkowitz, Esquire
Finnegan, Henderson, Farabow,
Garrett and Dunner, L.L.P.
Internal Address: Mail Drop 834
Street Address: 1300 I Street, N.W.
City: Washington
State: D.C. Zip: 20005-3315

6. Total number of applications and registrations involved:
one

7. Total fee (37 CFR 3.41): \$40.00
[X] Enclosed (Please charge deficiency to deposit account)
 Authorized to be charged to deposit account

8. Deposit account number: 06-0916

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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.

Jeffrey A. Berkowitz
Reg. No.: 36,743

Signature

December 30, 1998
Date

Total number of pages including cover sheet, attachments and documents: 2

Attorney Docket No. 06502.0129-00000
SOLE/JOINT INVENTION
(Worldwide Rights)

ASSIGNMENT

WHEREAS I, the below named inventor, [hereinafter referred to as Assignor], have made an invention entitled:

**METHOD, APPARATUS, AND ARTICLE OF
MANUFACTURE FOR TIME PROFILING MULTI-THREADED PROGRAMS**

for which I filed an application for United States Letters Patent on April 29, 1998 (Serial No. 09/069,088); and

WHEREAS, **SUN MICROSYSTEMS, INC.**, a corporation of **DELAWARE** whose post office address is 901 San Antonio Road, MS PAL01-521, Palo Alto, California 94303 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignee is hereby acknowledged, I, as assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my entire right, title, and interest in and to this invention, provisional application Serial No. _____, filed _____ (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.



Sheng LIANG

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Address 94041