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Atty. Ref. No. 245-66272

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1. Total number of pages including cover sheet, attachments and document: 9

2. Name of Conveying Party(ies) and Execution Date(s) of Document(s) ☐ Check here if additional name(s) attached

Name(s): (1) Çetin K. Koç and (2) Serdar S. Erdem

Execution Date(s): (1) November 26, 2003, and (2) December 24, 2003

3. Name and address of receiving party ☐ Check here if additional name(s) & address(es) are attached

Name The State of Oregon Acting By and Through The State Board of Higher Education on Behalf of Oregon State University

Address 312 Kerr Administration Building

City Corvallis State/Country Oregon Zip 97331-2140

4. Nature of Conveyance

☒ Assignment ☐ Merger ☐ Security Agreement ☐ Name Change ☐ Other:

5. Total number of applications and patents involved: 1

6. Charge Fee (37 C.F.R. § 3.41) of \$40.00 to our Deposit Account No. 02-4550.

7. ☒ Check here if any deficiency/overpayment is authorized to be charged to deposit account 02-4550

8. Enter either the Execution date (of the Declaration and Power of Attorney), Application Number, or the Patent Number. Do not enter more than one number for the same patent.

A. ☐ This document is being filed with a new application. Execution date is: _____

B. ☒ Patent Application No.(s) or Patent No.(s): 10/636,326

☐ Check here if additional numbers are attached

9. Correspondent's name, address, and telephone number

Patrick M. Bible
 Klarquist Sparkman, LLP
 One World Trade Center, Suite 1600
 121 S.W. Salmon Street
 Portland, Oregon 97204-2988
 Telephone: 503-226-7391
 Facsimile: 503-228-9446

10. ☐ Please return the attached postcard to confirm that these items have been received.

11. 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.*

Patrick M. Bible

Name of Person Signing

Signature

December 31, 2003

Date

CH \$40.00 024550 10636326

cc: Client
 Accounting
 Docketing

700058763

PATENT
 REEL: 014230 FRAME: 0024

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ASSIGNMENT

WHEREAS, we ÇETIN K. KOÇ and SERDAR S. ERDEM and, have invented a certain invention, entitled LEAN MULTIPLICATION OF MULTI-PRECISION NUMBERS OVER GF (2^m), for which we are making application for Letters Patent of the United States, said application having United States Patent Application No. 10/636,326 and having been filed on August 6, 2003; and

WHEREAS, THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, having a place of business at Corvallis, Oregon, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, ÇETIN K. KOÇ and SERDAR S. ERDEM, hereby sell, assign and transfer to THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, the full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, for its own use and benefit, and for its successors and assigns to the full

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end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

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Executed at the place and date opposite our respective signatures below.

At Corvallis, Oregon
(City and State)
on this 26 day of November, 2003.

Cetin K. Koç
Cetin K. Koç

STATE OF OREGON)
COUNTY OF Benton) ss.

This 26 day of November, 2003, before me personally came the above-named
Cetin K. Koç, who executed the foregoing instrument in my presence, and who acknowledged to
me that he executed the same of his own free will for the purposes set forth therein.



Kathleen M. Troseth
Notary Public For
My commission expires: Oct 31, 2007

[SEAL]

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Executed at the place and date opposite our respective signatures below.

Executed at _____, this ____ day of _____, 2003.

Serdar S. Erdem

Witnessed by _____

Name (Print) _____

Date: _____

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ASSIGNMENT

WHEREAS, we ÇETIN K. KOÇ and SERDAR S. ERDEM and, have invented a certain invention, entitled LEAN MULTIPLICATION OF MULTI-PRECISION NUMBERS OVER GF (2^m), for which we are making application for Letters Patent of the United States, said application having United States Patent Application No. 10/636,326 and having been filed on August 6, 2003; and

WHEREAS, THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, having a place of business at Corvallis, Oregon, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, ÇETIN K. KOÇ and SERDAR S. ERDEM, hereby sell, assign and transfer to THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, the full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, for its own use and benefit, and for its successors and assigns to the full

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end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid THE STATE OF OREGON ACTING BY AND THROUGH THE STATE BOARD OF HIGHER EDUCATION ON BEHALF OF OREGON STATE UNIVERSITY, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

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Executed at the place and date opposite our respective signatures below.

Çetin K. Koç

At _____
(City and State)
on this ____ day of _____, 2003.

STATE OF OREGON)
)
COUNTY OF) ss.

This ____ day of _____, 2003, before me personally came the above-named Çetin K. Koç, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Notary Public For
My commission expires:

[SEAL]

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Executed at the place and date opposite our respective signatures below.

Executed at Gebze, TURKEY, this 24th day of
December, 2003.

S. S. Erdem

Serdar S. Erdem

Witnessed by [Signature]Name (Print) Dr. M. HAKAN HOCADGLUDate: 24-DECEMBER-2003

Vice-Dean of Engineering College
Gebze Institute of Technology
Gebze - Turkey