

RECORDATI



Docket No. 10971415-1

PA

101403592

1. Name of conveying party(ies): 6-16-00

Dean A. Mulla  
Reid James Riedlinger  
Thomas Grutkowski

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

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, Colorado 80527-2400

and,

INTEL CORPORATION  
2200 Mission College Blvd.  
Santa Clara, CA 95052-8119

JUN 23 10 16 AM '00  
COPY/TRANSMIT

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

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

3. Nature of Conveyance:

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

Execution Date(s): Respectively: 5/09/2000, 5/24/2000, 5/24/2000

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

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

A. Patent Application No.(s)

B. Patent No.(s)

Serial No.: 09/510,973 Date Filed: 02/21/2000

Additional numbers attached? NO

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

Records Manager  
HEWLETT-PACKARD COMPANY  
Legal Department  
3404 E. Harmony Rd M/S 79  
Fort Collins, CO 80528-9599

6. Total number of applications and patents involved: 1

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

Enclosed

Authorization to be charged to deposit account.

07/13/2000 JSW/BAZZ 00000080-082025 09510973

8. Deposit Account Number: 08-2025

01 FC:581 40.00 CH

DO NOT USE THIS SPACE

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.*

Crissy J Salazar  
Name of Person Signing

Signature

Jun 12, 2000  
Date

Total number of pages including cover sheet, attachments, and document: 4

OMB No. 0651-0011 (exp. 4/94)

Do Not detach this portion

Mail document to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignment  
Washington, D.C. 20231

When recorded please return to:  
HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 272400  
Fort Collins, Colorado 80527-2400

**ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD COMPANY, a Delaware corporation having its principal place of business in Palo Alto, California, (hereinafter HP) and INTEL CORPORATION, a Delaware corporation having its principle place of business in Santa Clara, (hereinafter INTEL) in furtherance of my/our obligations to HP or INTEL, and do hereby assign and transfer to HP and INTEL jointly, their successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled:

Multiple Issue Algorithm With Oversubscription Avoidance Features To Get High Bandwidth Through Cache Pipeline

Filing date: Feb. 21, 2000 Serial No.: 09/510973

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.

I/we additionally authorize HP and INTEL to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HP and INTEL jointly, their successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to HP, INTEL, their successors, assigns, nominees or legal representatives, and I/we agree to communicate to HP, INTEL, or their nominees, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HP and INTEL, their successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HP or INTEL;

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to HP and INTEL, jointly, as assignees of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct HP and INTEL attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above once the same shall have been made known to them by the United States Patent and Trademark Office.

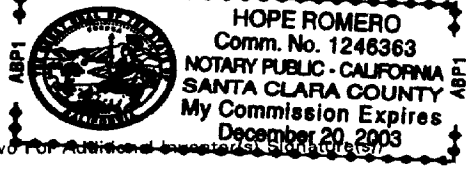
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Dean A. Mulla Date Assignment Signed: 5/9/00  
Inventor's Signature (Seal)

Inventor's Typed Name: Dean A. Mulla Date Application Signed: 5/9/00

State of California )  
County of Santa Clara ) ss.:

Before me this 9th day of May, 2000, personally appeared Dean A. Mulla who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.



Hope Romero  
Notary Public  
My commission expires: 12-20-03

When recorded please return to:  
HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 272400  
Fort Collins, Colorado 80528-9599

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

Reid James Riedlinger  
Inventor's Signature (Seal) Date Assignment Signed: 5/24/00

Inventor's Typed Name: Reid James Riedlinger Date Application Signed: 5/24/00

State of Colorado )  
 ) ss.:  
County of Larimer )

Before me this 24th day of May 2000, personally appeared Reid James Riedlinger who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Linda C. Cunningham  
Notary Public  
My Commission Expires Nov. 5, 2003

Thomas Grutkowski  
Inventor's Signature (Seal) Date Assignment Signed: May 24, 2000

Inventor's Typed Name: Thomas Grutkowski Date Application Signed: May 24, 2000

State of Colorado )  
 ) ss.:  
County of Larimer )

Before me this 24th day of May 2000, personally appeared Tom Grutkowski who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Linda C. Cunningham  
Notary Public  
My Commission Expires Nov. 5, 2003

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: \_\_\_\_\_ Date Application Signed: \_\_\_\_\_

State of Colorado )  
 ) ss.:  
County of Larimer )

Before me this \_\_\_\_ day of \_\_\_\_\_, personally appeared \_\_\_\_\_ who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

\_\_\_\_\_  
Notary Public  
My commission expires: \_\_\_\_\_