U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

200801885-1 ATTORNEY DOCKET NO. ___ RECORDATION FORM COVER SHEET PATENTS ONLY 2. Name and address of receiving party(ies): Name of conveying party(ies): HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. 11445 Compaq Center Drive West (a) Qiming Chen Houston, TX 77707 (b) Meichun Hsu Additional name(s) of conveying party(les) attached? Tes 🗷 No Additional name(s) and address(es) attached? Tes 🗓 No 3. Nature of Conveyance: ✓ Assignment Joint <u></u> Merger Change of Name Security Agreement Other Execution Date(s): (a) Jan. 23, 2009. (b) Jan. 23, 2009. 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) Application No.: 12359324 Date Filed: 25-JAN-2009 Confirmation No.: 4202 B. Patent No.(s): Additional numbers attached? NO 6. Total number of applications and patents involved: 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total Fee (37 CFR 3.41):......\$40.00 Records Manager Enclosed Intellectual Property Administration HEWLETT-PACKARD COMPANY X Authorization to be charged to deposit account. P.O. Box 272400 Fort Collins, Colorado 80527-2400 8. Deposit Account Number: 08-2025 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. Mary Jo Bertani Name of Person Signing Total number of pages including coversheet, attachments, and documents: Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450. Alexandria, V.A. 22313-1450. Page 1 of 1

Rev 11/08 (RecdAsgn)

PATENT **REEL: 022186 FRAME: 0589**

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

200801885-1 ATTORNEY DOCKET NO.

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston,

Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affillates, and do hereby assign and transfer to HPDC, its successors and lassigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States STRUCTURED PARALLEL DATA INTENSIVE COMPUTING Filing Date: Application No.: 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 therefore; and any reissues, or reexaminations, or extensions of said Letters Patent. I/we additionally authorize HPDC to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HPDC, its 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 onjoyed 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 confilor herewith, and tiwe 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 HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, 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, raissue and foreign applications, to make all rightful paths and declarations, and generally to do everything possible to aid HPDC, its 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 HPDC; 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 aforeszid, to issue to HPDC, as assignee 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 the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as 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): inventor's Signature (Seal) Qiming Chen. inventor's Typed Name State of) ES County of , personally appeared who is personally Qiming Cheni Sefore me this day of 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

Page 1 of 2

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Mey 10/08 (Asskanment)

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200801885-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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