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To the Honorable Commissioner of Patents and Trauemarks: Please record the attached original documents or copy thereof.  1. Name of conveying party(ies) International Business Machines    California	FORM PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002x)	08 - 15 - 2008  U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Honorable Commissioner of Patents and Trauentairss: Please record the attached original documents or copy thereof.  1. Name of conveying party(ies) International Business Machines    Additional name(s) of conveying party(ies) attached?   Yes No.	Tab settings ⇒ ⇒ ⇒	103519955
International Business Machines    Name: DARPA		
Additional name(s) of conveying party(ies) attached? Yes \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Name and address of receiving part(ies)
Additional name(s) of conveying party(ies) attached? Yes No    Assignment	International Business Machines	Name: DARPA
3. Nature of conveyance:  Assignment Merger Security Agreement Change of Name City: Arlington State: VA ZIP: 22203  Execution Date: 07/30/08 Additional name(s) & 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) 12/112,780  Additional numbers attached? Yes No  6. Total number of applications and patents involved: Enclosed Street Address: Office of General Counsel  B. Deposit account number: 01-0280  Enclosed Signature.  B8/14/2888 pitrine Reseases Blaces 12118 B1 FC:8821  Authorized to be charged to deposit account  B8/14/2888 pitrine Reseases Blaces 12118 B1 FC:8821  Authorized Total number of Person Signing  Authorized to be charged to deposit account  B8/14/2888 pitrine Reseases Blaces 12118 B1 FC:8821  Authorized Total number: 01-0280  City: Arlington State: VA ZIP: 22203  DO NOT USE THIS SPACE		Office of General Counsel
Assignment		
Security Agreement	3. Nature of conveyance:	
City: Arlington State: VA ZIP: 22203  Execution Date: 07/30/08 Additional name(s) & 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)  12/112,780  Additional numbers attached? Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Kimberly B. Downey  Internal Address:  Office of General Counsel  Street Address:  3701 North Fairfax Drive  City: Arlington State: VA ZIP: 22203  DO NOT USE THIS SPACE  9. Signature.  86/14/2008 DBYRNE Selections & States of Total number of pages including cover sheet, attachments, and document:  4 DESERTE		
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)  12/112,780		City: Arlington State: VA ZIP: 22203
If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  12/112,780    Additional numbers attached?   Yes   No  5. Name and address of party to whom correspondence concerning document should be mailed: Name: Kimberly B. Downey   Internal Address: Office of General Counsel    Street Address: 3701 North Fairfax Drive   City: Arlington   State: VA   ZIP: 22203     Do NOT USE THIS SPACE   9. Signature.   Sa/14/2⊌88 DBYKNE   Beeue@ee8 81ecse   12116     8. Patent No.(s)   Mane of Person Signing   No.     FC:8821   46.86 DA     Downey   Name of Person Signing   No.     Total number of pages including cover sheet, attachments, and document:   4     Departs   Downey	Execution Date: 07/30/08	Additional name(s) & address(es) attached? Yes No
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concerning document should be mailed: Name: Kimberly B. Downey Internal Address: Office of General Counsel  Street Address: 3701 North Fairfax Drive City: Arlington State: VA ZIP: 22203  DO NOT USE THIS SPACE  9. Signature.  88/14/2988 DBYKNE 89899998 819289 12116 81 FC:8821 46.89 DA  Kimberly B. Downey Name of Person Signing  Total number of pages including cover sheet, attachments, and document: 4		
Internal Address: Office of General Counsel  Street Address: 3701 North Fairfax Drive  City: Arlington State: VA ZIP: 22203  Do NOT USE THIS SPACE  9. Signature.  88/14/2888 DBYRNE BBURGERS 818288 12118 81 FC: 8821 48. 88 Day  Kimberly B. Downey Name of Person Signing  Total number of pages including cover sheet, attachments, and document: 4		6. Total number of applications and patents involved:
Internal Address: Office of General Counsel  Street Address: 3701 North Fairfax Drive City: Arlington State: VA ZIP: 22203  DO NOT USE THIS SPACE  9. Signature.  Wimberly B. Downey Name of Person Signing  Total number of pages including cover sheet, attachments, and document:    Enclosed     Authorized to be charged to deposit account     Authorized to be charged to deposit account     Authorized to be charged to deposit account     01-0280     01-0280     49.89 DA     49.89 DA     49.89 DA     Total number of pages including cover sheet, attachments, and document:   4     Authorized to be charged to deposit account     01-0280     1216	Name: Kimberly B. Downey	7. Total fee (37 CFR 3.41) \$40.00
Street Address: 3701 North Fairfax Drive  City: Arlington State: VA ZIP: 22203  DO NOT USE THIS SPACE  9. Signature.  **B8/14/2008 DBYRNE*** \$00000000 \$01000000 \$0100000 \$0100000 \$0100000 \$01000000 \$0100000 \$0100000 \$0100000 \$0100000 \$0100000 \$0100000 \$01000000 \$01000000 \$0100000 \$0100000 \$0100000 \$0100000 \$0100000 \$01000000 \$01000000 \$01000000 \$01000000 \$01000000 \$010000000 \$010000000 \$010000000 \$010000000 \$010000000 \$010000000 \$010000000 \$0100000000		
Street Address:  3701 North Fairfax Drive  City: Arlington State: VA ZIP: 22203  DO NOT USE THIS SPACE  9. Signature.  88/14/2008 DBYRNE 00000000 B10280 12116 01 FC:8021 40.00 DA  Kimberly B. Downey 07/30/08 Name of Person Signing Signature 07/30/08  Total number of pages including cover sheet, attachments, and document: 4		Authorized to be charged to deposit account
3701 North Fairfax Drive   01-0280	Street Address:	8. Deposit account number:
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9. Signature.  98/14/2008 DRYRNE 80000008 010280 12112  01 FC:8021 40.00 DA  Kimberly B. Downey Name of Person Signing  Total number of pages including cover sheet, attachments, and document:  12112  07/30/08  Date	City: Arlington State: VA ZIP: 22203	
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PATENT REEL: 021401 FRAME: 0041

## CONFIRMATORY INSTRUMENT

APPLICATION FOR: Information Handling System Including a Multiple Compute Element Processor with Distributed Data On-Ramp Data Off-Ramp Topology INVENTOR(S): Robert Alan Cargnoni, Gary Alan Gorman, Charles Francis Marino, Julie Ann Rosser FILING DATE: 04/30/2008 SERIAL NO. 12/112780 CONTRACT NO. HR0011-07-9-0002 CONTRACTOR: INTERNATIONAL BUSINESS MACHINES CORPORATION The Invention identified above is a "Subject Invention" under the Patent Rights Clause included in the above contract with: DARPA (DEFENSE ADVANCED RESEARCH PROJECTS AGENCY) (SPECIFY GOV'T, AGENCY HERE) This document is confirmatory of the paid-up license granted to the Government under the above contract in the Subject Invention, this patent application and any resulting patent(s), and of all other rights acquired by the Government by the referenced clause. The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application. Signed this \_\_\_\_\_\_\_ 25\_\_\_\_\_ day of \_\_\_\_\_\_ June\_\_\_\_\_\_\_, 2008 INTERNATIONAL BUSINESS MACHINES CORPORATION CONTRACTOR BY: CONTRACTOR'S OFFICIAL AND TITLE John D Flynn IP Senior Counsel - STG IBM **BUSINESS ADDRESS** 11501 Burnet Road Austin, TX 78758

IBM Disclosure No.: AUS820080634
IBM Docket No.: AUS920080317US1

PATENT REEL: 021401 FRAME: 0042

RECORDED: 08/08/2008