

# PATENT ASSIGNMENT

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|                                                                                                                                                                        |                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| SUBMISSION TYPE:                                                                                                                                                       | NEW ASSIGNMENT                           |
| NATURE OF CONVEYANCE:                                                                                                                                                  | ASSIGNMENT                               |
| CONVEYING PARTY DATA                                                                                                                                                   |                                          |
| Name                                                                                                                                                                   | Execution Date                           |
| Numerical Technologies, Inc.                                                                                                                                           | 12/16/2009                               |
| RECEIVING PARTY DATA                                                                                                                                                   |                                          |
| Name:                                                                                                                                                                  | Synopsys Merger Holdings LLC             |
| Street Address:                                                                                                                                                        | 700 E. Middlefield Road                  |
| City:                                                                                                                                                                  | Mountain View                            |
| State/Country:                                                                                                                                                         | CALIFORNIA                               |
| Postal Code:                                                                                                                                                           | 94043                                    |
| PROPERTY NUMBERS Total: 1                                                                                                                                              |                                          |
| Property Type                                                                                                                                                          | Number                                   |
| Patent Number:                                                                                                                                                         | 6584609                                  |
| CORRESPONDENCE DATA                                                                                                                                                    |                                          |
| Fax Number:                                                                                                                                                            | (650)712-0263                            |
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| Correspondent Name:                                                                                                                                                    | Haynes Beffel & Wolfeld LLP, Kenta Suzue |
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| ATTORNEY DOCKET NUMBER:                                                                                                                                                | SYNP 0111-0                              |
| NAME OF SUBMITTER:                                                                                                                                                     | Nicole Pannoni                           |
| Total Attachments: 10<br>source=00194066#page1.tif<br>source=00194066#page2.tif<br>source=00194066#page3.tif<br>source=00194066#page4.tif<br>source=00194066#page5.tif |                                          |

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**PATENT**  
**REEL: 023691 FRAME: 0054**

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## CONFIRMATION OF ASSIGNMENT

Whereas, a BILL OF SALE AND ASSIGNMENT TRANSFERRING ALL ASSETS TO SYNOPSYS MERGER HOLDINGS, LLC (attached as Appendix A and hereinafter "Bill of Sale") was signed on December 20, 2004 by both Numerical Technologies, Inc. (hereinafter "Assignor"), a corporation organized under the laws of Delaware, having a business address at 700 E. Middlefield Road, Mountain View, CA 94043; and Synopsys Merger Holdings LLC (hereinafter "Assignee"), a Delaware limited liability company, having a business address at 700 E. Middlefield Road, Mountain View, CA 94043.

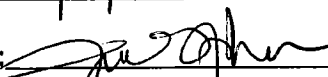
Whereas the Bill of Sale did not itemize "all the properties and assets" subject to the Bill of Sale.

NOW, THEREFORE, the Assignor confirms the assignment and transfer of "all properties and assets" of Assignor to Assignee by the Bill of Sale, and further includes an itemized list of patents and patent applications (attached as Appendix B) included in the properties and assets assigned by the Bill of Sale on December 20, 2004.

Assignor confirms that, effective as of December 20, 2004, Assignor sold, assigned, transferred and conveyed unto said Assignee the entire right, title and interest (a) in and to the United States patents and patent applications listed in Appendix B and the inventions disclosed therein (all collectively hereinafter termed "said Intellectual Property"); (b) in and to all rights to apply for foreign patents based upon said Intellectual Property pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said Intellectual Property in the United States or any foreign country (including rights to all past and future damages arising from infringement of these patents), including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

IN WITNESS WHEREOF, Assignor has executed this instrument as of the dates written below.

Date: 12/16/09

Signed: 

Name: Julie Stephenson

Title: Receiver for Numerical Technologies, Inc.

Company: Numerical Technologies, Inc.

# **APPENDIX A**

{00193752.DOC }

**Bill of Sale and Assignment Transferring  
All Assets to Synopsys Merger Holdings, LLC.**

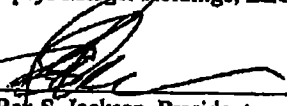
**BILL OF SALE AND ASSIGNMENT**, dated December ~~20~~ 2004  
From Numerical Technologies, Inc., a Delaware corporation (hereinafter the "Seller")  
to Synopsys Merger Holdings LLC, a Delaware limited liability company  
(hereinafter the "Purchaser")

**THIS BILL OF SALE AND ASSIGNMENT WITNESSETH** that for such good and sufficient consideration, the receipt of which is hereby acknowledged, Seller hereby assigns and transfers to Purchaser as of the close of business on the date hereof all the properties and assets of Seller, both real and personal, tangible and intangible, of every kind and nature, and wheresoever located.

**IN WITNESS WHEREOF**, the parties hereto have caused this Bill of Sale and Assignment to be signed in their respective corporate names by one of their respective Presidents on the day and year first above written.

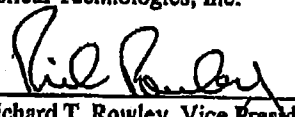
**PURCHASER:**

Synopsys Merger Holdings, LLC

By:   
Rex S. Jackson, President

**SELLER:**

Numerical Technologies, Inc.

By:   
Richard T. Rowley, Vice President

# **APPENDIX B**

{00193792.DOC }

**Assigned Patents and Patent Applications:**

| Docket #      | Serial #        | Filing Date | Patent No.      | Issue Date |
|---------------|-----------------|-------------|-----------------|------------|
| 0701CIP1      | 08/931,921      | 9/17/1997   | 5,858,580       | 1/12/1999  |
| 0701CON1      | 09/229,455      | 1/12/1999   | 6,228,539       | 5/8/2001   |
| 0701CON2      | 09/617,613      | 7/17/2000   | 6,258,493       | 7/10/2001  |
| 0701CON3      | 09/732,407      | 12/7/2000   | 6,420,074       | 7/16/2002  |
| 0701CON4      | 09/839,672      | 4/20/2001   | 6,436,590       | 8/20/2002  |
| 0701DIV1      | 10/154,858      | 5/24/2002   | 6,566,023       | 5/20/2003  |
| 0701DIV1-CON1 | 10/341,290      | 1/13/2003   | 6,818,385       | 11/16/2004 |
| 0701DIV1-CON2 | 10/843,974      | 5/12/2004   |                 |            |
| 0701P         | 60/025,972      | 9/18/1996   |                 |            |
| 0701PCT       | PCT/US97/16631  | 9/18/1997   |                 |            |
| 0701PCT-EP    | EP 97941699.7   | 9/18/1997   | 0927381 (GB)    | 8/18/2004  |
| 0701PCT-AU    | EP 97941699.7   | 9/18/1997   | 0927381 (AU)    | 8/18/2004  |
| 0701PCT-BE    | EP 97941699.7   | 9/18/1997   | 0927381 (BE)    | 8/18/2004  |
| 0701PCT-CH    | EP 97941699.7   | 9/18/1997   | 0927381 (CH)    | 8/18/2004  |
| 0701PCT-DE    | EP 97941699.7   | 9/18/1997   | 69730355.7 (DE) | 8/18/2004  |
| 0701PCT-DK    | EP 97941699.7   | 9/18/1997   | 0927381 (DK)    | 8/18/2004  |
| 0701PCT-ES    | EP 97941699.7   | 9/18/1997   | 0927381 (ES)    | 8/18/2004  |
| 0701PCT-FR    | EP 97941699.7   | 9/18/1997   | 0927381 (FR)    | 8/18/2004  |
| 0701PCT-GR    | EP 97941699.7   | 9/18/1997   | 0927381 (GR)    | 8/18/2004  |
| 0701PCT-IE    | EP 97941699.7   | 9/18/1997   | 0927381 (IE)    | 8/18/2004  |
| 0701PCT-IT    | EP 97941699.7   | 9/18/1997   | 0927381 (IT)    | 8/18/2004  |
| 0701PCT-LI    | EP 97941699.7   | 9/18/1997   | 0927381 (LI)    | 8/18/2004  |
| 0701PCT-LU    | EP 97941699.7   | 9/18/1997   | 0927381 (LU)    | 8/18/2004  |
| 0701PCT-MC    | EP 97941699.7   | 9/18/1997   | 0927381 (MC)    | 8/18/2004  |
| 0701PCT-NL    | EP 97941699.7   | 9/18/1997   | 0927381 (NL)    | 8/18/2004  |
| 0701PCT-PT    | EP 97941699.7   | 9/18/1997   | 0927381 (PT)    | 8/18/2004  |
| 0701PCT-SE    | EP 97941699.7   | 9/18/1997   | 0927381 (SE)    | 8/18/2004  |
| 0701PCT-FI    | EP 97941699.7   | 9/18/1997   | 0927381 (FI)    | 8/18/2004  |
| 0702          | 08/051,076      | 4/21/1993   |                 |            |
| 0702CON1      | 08/340,811      | 11/17/1994  | 5,527,645       | 6/18/1996  |
| 0703CIP1      | 09/544,798      | 4/7/2000    | 6,578,188       | 6/10/2003  |
| 0703CIP1-DIV1 | 10/372,066      | 2/20/2003   |                 |            |
| 0703CIP2      | 09/906,920      | 7/16/2001   |                 |            |
| 0703CIP3      | 10/618,816      | 7/11/2003   |                 |            |
| 0703CIP3-CN   | 2004-10028456.5 | 2/20/2004   |                 |            |
| 0703CIP3-TW   | 93102874        | 2/6/2004    |                 |            |
| 0703CON1      | 09/130,996      | 8/7/1998    | 6,757,645       | 6/29/2004  |

| Docket #      | Serial #        | Filing Date | Patent No.   | Issue Date |
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| 0703CON2      | 09/153,783      | 9/16/1998   | 6,470,489    | 10/22/2002 |
| 0703CON3      | 10/878,847      | 6/28/2004   |              |            |
| 0703P         | 60/059,306      | 9/17/1997   |              |            |
| 0703PCT1      | PCT/US98/19510  | 9/17/1998   |              |            |
| 0703PCT1-EP   | EP 98951922.8   | 9/17/1998   |              |            |
| 0703PCT1-JP   | JP 2000-512112  | 9/17/1998   |              |            |
| 0703PCT1-KR   | KR 7002873/2000 | 9/17/1998   |              |            |
| 0703PCT2      | PCT/US98/16742  | 8/11/1998   |              |            |
| 0703PCT2-EP   | EP 98939366.5   | 8/11/1998   |              |            |
| 0703PCT2-JP   | JP 2000-512171  | 8/11/1998   |              |            |
| 0703PCT2-KR   | KR 7002870/2000 | 8/11/1998   |              |            |
| 0703TW1       | TW 87115624     | 9/16/1998   | TW 123356    | 4/6/2001   |
| 0703TW2       | 87115494        | 9/17/1998   | 117366       | 11/10/2000 |
| 0704CON1      | 09/154,415      | 9/16/1998   | 6,370,679    | 4/9/2002   |
| 0704CON2      | 09/154,397      | 9/16/1998   | 6,453,452    | 9/17/2002  |
| 0704CON3      | 10/173,198      | 6/18/2002   |              |            |
| 0704P         | 60/069,549      | 12/12/1997  |              |            |
| 0704PCT1      | PCT/US98/19439  | 9/17/1998   |              |            |
| 0704PCT1-EP   | 98947104        | 9/17/1998   |              |            |
| 0704PCT1-JP   | JP 2000-512111  | 9/17/1998   |              |            |
| 0704PCT1-KR   | 7002872/2000    | 9/17/1998   |              |            |
| 0704PCT2      | PCT/US98/19438  | 9/17/1998   |              |            |
| 0704PCT2-EP   | 98947103.2      | 9/17/1998   |              |            |
| 0704PCT2-JP   | JP 2000-512110  | 9/17/1998   |              |            |
| 0704PCT2-KR   | 7002869/2000    | 9/17/1998   |              |            |
| 0705          | 09/632,080      | 8/2/2000    | 6,523,162    | 2/18/2003  |
| 0705DIV1      | 10/194,703      | 7/12/2002   |              |            |
| 0706CIP1      | 10/068,513      | 2/6/2002    | 6,733,929    | 5/11/2004  |
| 0706CIP1CON1  | 10/818,727      | 4/6/2004    |              |            |
| 0706CIP2      | 10/235,458      | 9/5/2002    | 6,811,935    | 11/2/2004  |
| 0706CIP3      | 10/244,226      | 9/16/2002   | 6,777,141    | 8/17/2004  |
| 0706CIP3CON1  | 10/920,027      | 8/17/2004   |              |            |
| 0706CON1      | 09/669,359      | 9/26/2000   | 6,503,666    | 1/7/2003   |
| 0706CON2      | 09/669,368      | 9/26/2000   | 6,524,752    | 2/25/2003  |
| 0706CON2-DIV1 | 10/224,064      | 8/20/2002   | 6,610,449    | 8/26/2003  |
| 0706CON3      | 09/669,367      | 9/26/2000   | 6,541,165    | 4/1/2003   |
| 0706P         | 60/215,938      | 7/5/2000    |              |            |
| 0706PCT       | PCT/US00/42284  | 11/28/2000  |              |            |
| 0706PCT-CN    | 819729.6        | 11/28/2000  |              |            |
| 0706PCT-EP    | 992248.5        | 1/6/2003    |              |            |
| 0706PCT-JP    | 2002-508143     | 9/28/2000   |              |            |
| 0707          | 09/514,551      | 2/28/2000   | 6,584,609    | 6/24/2003  |
| 0707DIV1      | 10/327,454      | 12/20/2002  |              |            |
| 0707PCT       | PCT/US01/06144  | 2/26/2001   |              |            |
| 0707PCT-EP    | 1916242.9       | 2/26/2001   |              |            |
| 0707PCT-JP    | JP 2001-563954  | 8/28/2002   |              |            |
| 0708          | 09/823,380      | 3/29/2001   | 6,584,610    | 6/24/2003  |
| 0708CIP1      | 10/012,069      | 12/5/2001   |              |            |
| 0708CON1      | 10/377,341      | 2/27/2003   |              |            |
| 0709          | 09/823,146      | 3/29/2001   | 6,622,288    | 9/16/2003  |
| 0710          | 09/675,582      | 9/29/2000   | 6,539,321 B1 | 3/25/2003  |
| 0711          | 09/675,197      | 9/29/2000   | 6,792,590    | 9/14/2004  |

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| 0711DIV1   | 10/855,673     | 5/26/2004   |            |            |
| 0712       | 09/676,375     | 9/29/2000   | 6,625,801  | 9/23/2003  |
| 0712DIV1   | 10/346,903     | 1/17/2003   |            |            |
| 0713       | 09/676,356     | 9/29/2000   | 6,453,457  | 9/17/2002  |
| 0713CON1   | 10/099,279     | 3/15/2002   | 6,777,138  | 8/17/2004  |
| 0714       | 09/728,885     | 12/1/2000   | 6,663,856  | 12/16/2003 |
| 0714DIV1   | 10/688,559     | 10/16/2003  |            |            |
| 0715       | 60/226,457     | 8/17/2000   |            |            |
| 0716       | 09/676,400     | 9/29/2000   | 6,557,162  | 4/29/2003  |
| 0716DIV1   | 10/369,713     | 2/19/2003   |            |            |
| 0716PCT    | PCT/US00/35653 | 12/29/2000  |            |            |
| 0716PCT-BP | 00989614.3     | 12/30/2000  |            |            |
| 0716PCT-JP | 2002-533003    | 12/30/2000  |            |            |
| 0716PCT-KR | 7004536/2003   | 3/28/2003   |            |            |
| 0717       | 09/814,025     | 3/20/2001   |            |            |
| 0718       | 09/814,023     | 3/20/2001   |            |            |
| 0718PCT    | PCT/US02/06491 | 2/28/2002   |            |            |
| 0718PCT-CN | 2806995.1      | 10/17/2003  |            |            |
| 0718PCT-JP | 2002-574111    | 2/28/2002   |            |            |
| 0718PCT-KR | 7012260/2003   | 2/28/2002   |            |            |
| 0719       | 09/746,369     | 12/20/2000  | 6,653,026  | 11/25/2003 |
| 0719DIV1   | 10/656,933     | 9/9/2003    |            |            |
| 0719PCT    | PCT/US01/47687 | 11/30/2001  |            |            |
| 0719PCT-CN | 1820942.4      | 6/20/2003   |            |            |
| 0719PCT-EP | 1990970.4      | 11/30/2001  |            |            |
| 0719PCT-JP | 2002-551649    | 11/30/2001  |            |            |
| 0720       | 09/816,619     | 3/23/2001   | 6,635,393  | 10/21/2003 |
| 0721       | 09/752,809     | 12/27/2000  |            |            |
| 0721PCT    | PCT/US01/50851 | 12/26/2001  |            |            |
| 0721PCT-DB | 10197112.5     | 6/27/2003   |            |            |
| 0722P      | 60/243,524     | 10/25/2000  |            |            |
| 0723       | 09/810,823     | 3/16/2001   | 6,551,750  | 4/22/2003  |
| 0723PCT    | PCT/US02/05844 | 2/26/2002   |            |            |
| 0723PCT-CN | 2806546.8      | 10/17/2003  |            |            |
| 0723PCT-EP | 2736492.6      | 2/26/2002   |            |            |
| 0723PCT-KR | 7012112/2003   | 9/16/2003   |            |            |
| 0725       | 09/843,498     | 4/25/2001   | 6,566,019  | 5/20/2003  |
| 0726       | 09/872,620     | 5/31/2001   | 6,553,560  | 4/22/2003  |
| 0726CON1   | 10/313,325     | 12/6/2002   |            |            |
| 0726PCT    | PCT/US02/04119 | 2/11/2002   |            |            |
| 0726PCT-BP | 2709485.3      | 2/11/2002   |            |            |
| 0726PCT-JP | 2002-579888    | 10/2/2003   |            |            |
| 0726TW     | 91103328       | 2/25/2002   | 173147     | 7/2/2003   |
| 0727       | 09/917,581     | 7/27/2001   | 6,664,009  | 12/16/2003 |
| 0729PCT    | PCT/US01/07413 | 3/8/2001    |            |            |
| 0729PCT-BP | 1914759.4      | 3/8/2001    |            |            |
| 0729PCT-JP | 2002-572505    | 9/8/2001    |            |            |
| 0729PCT-US | 10/240,006     | 9/26/2002   |            |            |
| 0731       | 09/835,313     | 4/13/2001   | 6,505,327  | 1/7/2003   |
| 0733       | 09/876,306     | 6/6/2001    | 6,569,583  | 5/27/2003  |
| 0734       | 09/952,896     | 9/11/2001   | 6,735,752  | 5/11/2004  |
| 0736       | 09/953,376     | 9/14/2001   |            |            |

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| 0738P           | 60/307,640     | 7/24/2001   |            |            |
| 0739            | 09/945,012     | 8/31/2001   | 6,684,382  | 1/27/2004  |
| 0740            | 09/843,487     | 4/25/2001   | 6,573,010  | 6/3/2003   |
| 0741            | 09/905,420     | 7/13/2001   | 6,523,165  | 2/18/2003  |
| 0741CIP1        | 10/272,104     | 10/15/2002  |            |            |
| 0742            | 09/876,307     | 6/6/2001    | 6,593,038  | 7/15/2003  |
| 0743            | 09/917,526     | 7/26/2001   | 6,560,766  | 5/6/2003   |
| 0743CIP1        | 10/323,565     | 12/17/2002  | 6,721,928  | 4/13/2004  |
| 0744P           | 60/281,325     | 4/3/2001    |            |            |
| 0745            | 09/941,453     | 8/28/2001   |            |            |
| 0745PCT         | PCT/GB02/03812 | 8/16/2002   |            |            |
| 0745PCT-CN      | 2816728.7      | 8/16/2002   |            |            |
| 0745PCT-EP      | 2755199.3      | 8/16/2002   |            |            |
| 0745TW          | 91115025       | 7/5/2002    | 184498     | 8/21/2003  |
| 0746P           | 60/288,738     | 5/4/2001    |            |            |
| 0747CON1        | 09/932,239     | 8/17/2001   |            |            |
| 0747CON1-PCT    | PCT/US02/18306 | 6/7/2002    |            |            |
| 0747CON1-PCT-CN | 2811546.5      | 6/7/2002    |            |            |
| 0747CON1-PCT-EP | 2737445.3      | 6/7/2002    |            |            |
| 0747CON1-PCT-JP | 2003-504164    | 6/7/2002    |            |            |
| 0747CON2        | 09/972,428     | 10/5/2001   |            |            |
| 0747CON2-PCT    | PCT/US02/18480 | 6/7/2002    |            |            |
| 0747CON2-PCT-CN | 2811544.9      | 6/7/2002    |            |            |
| 0747CON2-PCT-EP | 2778961.9      | 6/7/2002    |            |            |
| 0747CON2-PCT-JP | 2003-504165    | 6/7/2002    |            |            |
| 0747CON3        | 10/082,697     | 2/25/2002   | 6,721,938  | 4/13/2004  |
| 0747CON3-PCT    | PCT/US02/17667 | 6/7/2002    |            |            |
| 0747CON3-PCT-CN | 2811550.3      | 6/7/2002    |            |            |
| 0747CON3-PCT-EP | 2778938.7      | 6/7/2002    |            |            |
| 0747CON3-PCT-JP | 2003-504163    | 6/7/2002    |            |            |
| 0747CON4        | 10/085,759     | 2/28/2002   | 6,787,271  | 9/7/2004   |
| 0747CON4-PCT    | PCT/US02/17668 | 6/7/2002    |            |            |
| 0747CON4-PCT-CN | 2811551.1      | 6/7/2002    |            |            |
| 0747CON4-PCT-EP | 02778939.5     | 6/7/2002    |            |            |
| 0747CON4-PCT-JP | 2003-504166    | 6/7/2002    |            |            |
| 0747CON4DIV1    | 10/799,073     | 3/12/2004   |            |            |
| 0747CON4DIV2    | 10/809,650     | 3/25/2004   |            |            |
| 0747CON4DIV3    | 10/938,653     | 9/10/2004   |            |            |
| 0747CON4DIV4    | 10/939,104     | 9/10/2004   |            |            |
| 0747CON5        | 09/996,973     | 11/15/2001  | 6,681,379  | 1/20/2004  |
| 0747CON6        | 10/165,550     | 6/7/2002    |            |            |
| 0747CON7        | 10/165,557     | 6/7/2002    |            |            |
| 0747CON8        | 10/340,377     | 1/10/2003   |            |            |
| 0747CON9        | 10/834,623     | 4/29/2004   |            |            |
| 0747P           | 60/296,788     | 6/8/2001    |            |            |
| 0747P1          | 60/304,142     | 7/10/2001   |            |            |
| 0747P2          | 60/325,689     | 9/28/2001   |            |            |
| 0747P3          | 60/381,048     | 5/15/2002   |            |            |
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