

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																						
NATURE OF CONVEYANCE:	ASSIGNMENT																						
CONVEYING PARTY DATA																							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Robert Scott Hartog</td> <td>02/24/2012</td> </tr> <tr> <td>Ralph Clay Taylor</td> <td>03/22/2012</td> </tr> <tr> <td>Rex McCrary</td> <td>03/27/2012</td> </tr> <tr> <td>Kevin McGrath</td> <td>03/23/2012</td> </tr> <tr> <td>Michael Mantor</td> <td>03/05/2012</td> </tr> <tr> <td>Thomas Roy Woller</td> <td>02/02/2012</td> </tr> <tr> <td>Sebastien Nussbaum</td> <td>02/23/2012</td> </tr> <tr> <td>Philip J. Rogers</td> <td>02/10/2012</td> </tr> <tr> <td>Mark Leather</td> <td>03/30/2012</td> </tr> <tr> <td>Nuwan S. Jayasena</td> <td>02/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	Robert Scott Hartog	02/24/2012	Ralph Clay Taylor	03/22/2012	Rex McCrary	03/27/2012	Kevin McGrath	03/23/2012	Michael Mantor	03/05/2012	Thomas Roy Woller	02/02/2012	Sebastien Nussbaum	02/23/2012	Philip J. Rogers	02/10/2012	Mark Leather	03/30/2012	Nuwan S. Jayasena	02/03/2012
Name	Execution Date																						
Robert Scott Hartog	02/24/2012																						
Ralph Clay Taylor	03/22/2012																						
Rex McCrary	03/27/2012																						
Kevin McGrath	03/23/2012																						
Michael Mantor	03/05/2012																						
Thomas Roy Woller	02/02/2012																						
Sebastien Nussbaum	02/23/2012																						
Philip J. Rogers	02/10/2012																						
Mark Leather	03/30/2012																						
Nuwan S. Jayasena	02/03/2012																						
RECEIVING PARTY DATA																							
Name:	Advanced Micro Devices, Inc.																						
Street Address:	One AMD Place																						
City:	Sunnyvale																						
State/Country:	CALIFORNIA																						
Postal Code:	94088																						
PROPERTY NUMBERS Total: 1																							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13325755</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13325755																		
Property Type	Number																						
Application Number:	13325755																						
CORRESPONDENCE DATA																							
Fax Number:	(202)371-2540																						
Phone:	(202) 371 2600																						
Email:	rdillon@skgf.com																						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																							
Correspondent Name:	Sterne, Kessler, Goldstein & Fox PLLC																						

OP \$40.00 13325755

Address Line 1: 1100 New York Avenue, N.W.
Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

ATTORNEY DOCKET NUMBER: 1972.2320000

NAME OF SUBMITTER: Theodore A. Wood, Reg. No. 52,374

Total Attachments: 98

source=19722320000Assignments#page1.tif
source=19722320000Assignments#page2.tif
source=19722320000Assignments#page3.tif
source=19722320000Assignments#page4.tif
source=19722320000Assignments#page5.tif
source=19722320000Assignments#page6.tif
source=19722320000Assignments#page7.tif
source=19722320000Assignments#page8.tif
source=19722320000Assignments#page9.tif
source=19722320000Assignments#page10.tif
source=19722320000Assignments#page11.tif
source=19722320000Assignments#page12.tif
source=19722320000Assignments#page13.tif
source=19722320000Assignments#page14.tif
source=19722320000Assignments#page15.tif
source=19722320000Assignments#page16.tif
source=19722320000Assignments#page17.tif
source=19722320000Assignments#page18.tif
source=19722320000Assignments#page19.tif
source=19722320000Assignments#page20.tif
source=19722320000Assignments#page21.tif
source=19722320000Assignments#page22.tif
source=19722320000Assignments#page23.tif
source=19722320000Assignments#page24.tif
source=19722320000Assignments#page25.tif
source=19722320000Assignments#page26.tif
source=19722320000Assignments#page27.tif
source=19722320000Assignments#page28.tif
source=19722320000Assignments#page29.tif
source=19722320000Assignments#page30.tif
source=19722320000Assignments#page31.tif
source=19722320000Assignments#page32.tif
source=19722320000Assignments#page33.tif
source=19722320000Assignments#page34.tif
source=19722320000Assignments#page35.tif
source=19722320000Assignments#page36.tif
source=19722320000Assignments#page37.tif
source=19722320000Assignments#page38.tif
source=19722320000Assignments#page39.tif
source=19722320000Assignments#page40.tif
source=19722320000Assignments#page41.tif
source=19722320000Assignments#page42.tif
source=19722320000Assignments#page43.tif
source=19722320000Assignments#page44.tif
source=19722320000Assignments#page45.tif
source=19722320000Assignments#page46.tif

source=19722320000Assignments#page47.tif
source=19722320000Assignments#page48.tif
source=19722320000Assignments#page49.tif
source=19722320000Assignments#page50.tif
source=19722320000Assignments#page51.tif
source=19722320000Assignments#page52.tif
source=19722320000Assignments#page53.tif
source=19722320000Assignments#page54.tif
source=19722320000Assignments#page55.tif
source=19722320000Assignments#page56.tif
source=19722320000Assignments#page57.tif
source=19722320000Assignments#page58.tif
source=19722320000Assignments#page59.tif
source=19722320000Assignments#page60.tif
source=19722320000Assignments#page61.tif
source=19722320000Assignments#page62.tif
source=19722320000Assignments#page63.tif
source=19722320000Assignments#page64.tif
source=19722320000Assignments#page65.tif
source=19722320000Assignments#page66.tif
source=19722320000Assignments#page67.tif
source=19722320000Assignments#page68.tif
source=19722320000Assignments#page69.tif
source=19722320000Assignments#page70.tif
source=19722320000Assignments#page71.tif
source=19722320000Assignments#page72.tif
source=19722320000Assignments#page73.tif
source=19722320000Assignments#page74.tif
source=19722320000Assignments#page75.tif
source=19722320000Assignments#page76.tif
source=19722320000Assignments#page77.tif
source=19722320000Assignments#page78.tif
source=19722320000Assignments#page79.tif
source=19722320000Assignments#page80.tif
source=19722320000Assignments#page81.tif
source=19722320000Assignments#page82.tif
source=19722320000Assignments#page83.tif
source=19722320000Assignments#page84.tif
source=19722320000Assignments#page85.tif
source=19722320000Assignments#page86.tif
source=19722320000Assignments#page87.tif
source=19722320000Assignments#page88.tif
source=19722320000Assignments#page89.tif
source=19722320000Assignments#page90.tif
source=19722320000Assignments#page91.tif
source=19722320000Assignments#page92.tif
source=19722320000Assignments#page93.tif
source=19722320000Assignments#page94.tif
source=19722320000Assignments#page95.tif
source=19722320000Assignments#page96.tif
source=19722320000Assignments#page97.tif
source=19722320000Assignments#page98.tif

ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **(1.) Scott Hartog, (2.) Ralph Clay Taylor, (3.) Michael Mantor, (4.) Thomas Roy Woller, (5.) Kevin McGrath, (6.) Sebastien Nussbaum, (7.) Nuwan S. Jayasena, (8.) Rex McCrary, (9.) Philip J. Rogers, and (10.) Mark Leather** (hereinafter referred to as the "Inventor(s)") and Advanced Micro Devices, Inc., having a place of business at One AMD Place, Sunnyvale, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as inventors in the patent application filed in the **USA** on December 14, 2011, entitled **Software Mechanisms For Managing Task Scheduling On An Accelerated Processing Device (APD)**, having application no. 13/325,755, and having a docket number of **1972.2320000** (hereinafter referred to as the "Application"); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

NOW, THEREFORE, the parties agree as follows:

1. To the extent that Inventor(s) are subject to a prior agreement transferring rights, title, and/or interest in the Invention(s) to the Assignee, Inventor(s) hereby confirm such transfer.

2. To the extent that Inventor(s) retain any rights, title, or interest in the Invention(s) not vested in the Assignee on the date(s) of execution of this Assignment, Inventor(s) hereby assign and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world, in and to: the Invention(s), including any patent applications, patents, invention registrations, and equivalents thereof (including any and all provisional, international, regional, and national patents and patent applications, and all divisions, continuations, continuations-in-part, renewals, reissues, reexams, substitutes and extensions thereof), for the Invention(s) and all rights to claim priority thereto. Inventor(s) further assign and

otherwise transfer to Assignee all causes of action and remedies arising under any patent or patent application for the Invention(s) prior to, on, or after the date(s) of execution of this Assignment. Inventor(s) shall not be entitled to an accounting for any causes of action or remedies pursued by Assignee.

3. The transfers set forth in Paragraphs 1 and 2 above are in consideration for the sum of at least one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable. Such consideration includes but is not limited to at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.

4. Inventor(s) hereby authorize and request the Commissioner of Patents and Trademarks, or equivalent thereof, to issue the patent for the Invention, and all resulting patents therefrom, insofar as the Inventor(s)' interest is concerned, to the Assignee.

5. Inventor(s) further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect Assignee's rights, title, and interest in the Invention(s).

6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

7. Inventor(s) hereby further agree to, with respect to any patent application or patent for the Invention(s), at the expense of the Assignee:

- i) testify in any legal proceedings,
- ii) sign all lawful papers,
- iii) execute all divisional, continuation, continuation-in-part, reissue, reexamination, and substitute applications,

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Ralph Clay Taylor (Print Name)

State of _____)

Inventor:

Michael Mantor (Signature)

3/5/2012 (Date)

Michael Mantor (Print Name)

State of Florida

County of Orange

On March 5, 2012 before me,
(insert date)

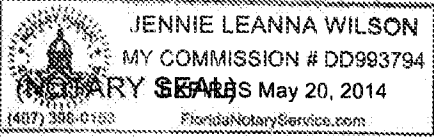
Jennie Leanna Wilson Receptionist 1

(insert name and title of the notarizing officer)

personally appeared Michael Mantor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Florida that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



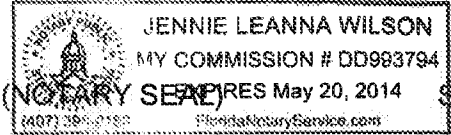
Signature: Jennie Leanna Wilson

Witness # 1:

instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Florida that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: Jennie Leanna Wilson

Witness # 1:

____ (Signature) _____ (Date)
____ (Print Name)

Witness # 2:

____ (Signature) _____ (Date)
____ (Print Name)

Inventor:

____ (Signature) _____ (Date)
Kevin McGrath (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Sebastien Nussbaum (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Sebastien Nussbaum, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Rex McCrary (Print Name)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Philip J. Rogers (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Philip J. Rogers, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

personally appeared Mark Leather, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **(1.) Scott Hartog, (2.) Ralph Clay Taylor, (3.) Michael Mantor, (4.) Thomas Roy Woller, (5.) Kevin McGrath, (6.) Sebastien Nussbaum, (7.) Nuwan S. Jayasena, (8.) Rex McCrary, (9.) Philip J. Rogers, and (10.) Mark Leather** (hereinafter referred to as the "Inventor(s)") and Advanced Micro Devices, Inc., having a place of business at One AMD Place, Sunnyvale, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as inventors in the patent application filed in the **USA** on December 14, 2011, entitled **Software Mechanisms For Managing Task Scheduling On An Accelerated Processing Device (APD)**, having application no. 13/325,755, and having a docket number of **1972.232000** (hereinafter referred to as the "Application"); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

NOW, THEREFORE, the parties agree as follows:

1. To the extent that Inventor(s) are subject to a prior agreement transferring rights, title, and/or interest in the Invention(s) to the Assignee, Inventor(s) hereby confirm such transfer.

2. To the extent that Inventor(s) retain any rights, title, or interest in the Invention(s) not vested in the Assignee on the date(s) of execution of this Assignment, Inventor(s) hereby assign and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world, in and to: the Invention(s), including any patent applications, patents, invention registrations, and equivalents thereof (including any and all provisional, international, regional, and national patents and patent applications, and all divisions, continuations, continuations-in-part, renewals, reissues, reexams, substitutes and extensions thereof), for the Invention(s) and all rights to claim priority thereto. Inventor(s) further assign and

otherwise transfer to Assignee all causes of action and remedies arising under any patent or patent application for the Invention(s) prior to, on, or after the date(s) of execution of this Assignment. Inventor(s) shall not be entitled to an accounting for any causes of action or remedies pursued by Assignee.

3. The transfers set forth in Paragraphs 1 and 2 above are in consideration for the sum of at least one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable. Such consideration includes but is not limited to at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.

4. Inventor(s) hereby authorize and request the Commissioner of Patents and Trademarks, or equivalent thereof, to issue the patent for the Invention, and all resulting patents therefrom, insofar as the Inventor(s)' interest is concerned, to the Assignee.

5. Inventor(s) further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect Assignee's rights, title, and interest in the Invention(s).

6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

7. Inventor(s) hereby further agree to, with respect to any patent application or patent for the Invention(s), at the expense of the Assignee:

- i) testify in any legal proceedings,
- ii) sign all lawful papers,
- iii) execute all divisional, continuation, continuation-in-part, reissue, reexamination, and substitute applications,

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Ralph Clay Taylor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Michael Mantor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Michael Mantor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Thomas Roy Woller (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Thomas Roy Woller, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the

instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

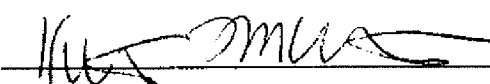
Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

 (Signature) 3/23/12 (Date)
Kevin McGrath (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Kevin McGrath, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

Patricia K. McGrath (Signature) 3/23/12 (Date)

Patricia K. McGrath (Print Name)

Witness # 2:

Kaillin A. McGrath (Signature) 3/23/12 (Date)

Kaillin A. McGrath (Print Name)

ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **(1.) Scott Hartog, (2.) Ralph Clay Taylor, (3.) Michael Mantor, (4.) Thomas Roy Woller, (5.) Kevin McGrath, (6.) Sebastien Nussbaum, (7.) Nuwan S. Jayasena, (8.) Rex McCrary, (9.) Philip J. Rogers, and (10.) Mark Leather** (hereinafter referred to as the "Inventor(s)") and Advanced Micro Devices, Inc., having a place of business at One AMD Place, Sunnyvale, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as inventors in the patent application filed in the **USA** on December 14, 2011, entitled **Software Mechanisms For Managing Task Scheduling On An Accelerated Processing Device (APD)**, having application no. 13/325,755, and having a docket number of **1972.232000** (hereinafter referred to as the "Application"); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

NOW, THEREFORE, the parties agree as follows:

1. To the extent that Inventor(s) are subject to a prior agreement transferring rights, title, and/or interest in the Invention(s) to the Assignee, Inventor(s) hereby confirm such transfer.

2. To the extent that Inventor(s) retain any rights, title, or interest in the Invention(s) not vested in the Assignee on the date(s) of execution of this Assignment, Inventor(s) hereby assign and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world, in and to: the Invention(s), including any patent applications, patents, invention registrations, and equivalents thereof (including any and all provisional, international, regional, and national patents and patent applications, and all divisions, continuations, continuations-in-part, renewals, reissues, reexams, substitutes and extensions thereof), for the Invention(s) and all rights to claim priority thereto. Inventor(s) further assign and

otherwise transfer to Assignee all causes of action and remedies arising under any patent or patent application for the Invention(s) prior to, on, or after the date(s) of execution of this Assignment. Inventor(s) shall not be entitled to an accounting for any causes of action or remedies pursued by Assignee.

3. The transfers set forth in Paragraphs 1 and 2 above are in consideration for the sum of at least one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable. Such consideration includes but is not limited to at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.

4. Inventor(s) hereby authorize and request the Commissioner of Patents and Trademarks, or equivalent thereof, to issue the patent for the Invention, and all resulting patents therefrom, insofar as the Inventor(s)' interest is concerned, to the Assignee.

5. Inventor(s) further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect Assignee's rights, title, and interest in the Invention(s).

6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

7. Inventor(s) hereby further agree to, with respect to any patent application or patent for the Invention(s), at the expense of the Assignee:

- i) testify in any legal proceedings,
- ii) sign all lawful papers,
- iii) execute all divisional, continuation, continuation-in-part, reissue, reexamination, and substitute applications,

iv) make all lawful oaths, and assist in vesting title in the Assignee and to aid the Assignee to obtain and enforce proper protection for the subject matter of the Invention(s) in all countries and regions, and

v) notify Assignee promptly (by facsimile or first class mail) of any subpoena or contact by any person other than Assignee or its agents regarding the Invention or resultant patent(s) issuing therefrom, and in any event at least one week prior to any deposition, legal inquiry or legal proceeding relating to the above identified invention.

This assignment is executed on the date(s) of which the Inventor(s) have signed.

Inventor:

_____ (Signature) _____ (Date)

Scott Hartog (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Scott Hartog, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Ralph Clay Taylor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Ralph Clay Taylor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Michael Mantor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Michael Mantor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

Thomas Roy Woller (Signature) 2/2/2012 (Date)
Thomas Roy Woller (Print Name)

State of Texas)
County of Travis)

On February 2, 2012 before me,
(insert date)

Joan D. Schuster, Senior Administrator

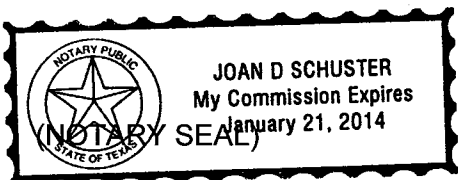
(insert name and title of the notarizing officer)

personally appeared Thomas Roy Woller, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the

instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Texas that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: [Handwritten Signature]

Witness # 1:

(Signature) _____ (Date)

(Print Name)

Witness # 2:

(Signature) _____ (Date)

(Print Name)

Inventor:

(Signature) _____ (Date)
Kevin McGrath (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Kevin McGrath, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Sebastien Nussbaum (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Sebastien Nussbaum, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Nuwan S. Jayasena (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Nuwan S. Jayasena, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the

within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Rex McCrary (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Rex McCrary, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Philip J. Rogers (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Philip J. Rogers, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Mark Leather (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Mark Leather, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **(1.) Scott Hartog, (2.) Ralph Clay Taylor, (3.) Michael Mantor, (4.) Thomas Roy Woller, (5.) Kevin McGrath, (6.) Sebastien Nussbaum, (7.) Nuwan S. Jayasena, (8.) Rex McCrary, (9.) Philip J. Rogers, and (10.) Mark Leather** (hereinafter referred to as the "Inventor(s)") and Advanced Micro Devices, Inc., having a place of business at One AMD Place, Sunnyvale, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as inventors in the patent application filed in the **USA** on December 14, 2011, entitled **Software Mechanisms For Managing Task Scheduling On An Accelerated Processing Device (APD)**, having application no. 13/325,755, and having a docket number of **1972.2320000** (hereinafter referred to as the "Application"); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

NOW, THEREFORE, the parties agree as follows:

1. To the extent that Inventor(s) are subject to a prior agreement transferring rights, title, and/or interest in the Invention(s) to the Assignee, Inventor(s) hereby confirm such transfer.

2. To the extent that Inventor(s) retain any rights, title, or interest in the Invention(s) not vested in the Assignee on the date(s) of execution of this Assignment, Inventor(s) hereby assign and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world, in and to: the Invention(s), including any patent applications, patents, invention registrations, and equivalents thereof (including any and all provisional, international, regional, and national patents and patent applications, and all divisions, continuations, continuations-in-part, renewals, reissues, reexams, substitutes and extensions thereof), for the Invention(s) and all rights to claim priority thereto. Inventor(s) further assign and

otherwise transfer to Assignee all causes of action and remedies arising under any patent or patent application for the Invention(s) prior to, on, or after the date(s) of execution of this Assignment. Inventor(s) shall not be entitled to an accounting for any causes of action or remedies pursued by Assignee.

3. The transfers set forth in Paragraphs 1 and 2 above are in consideration for the sum of at least one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable. Such consideration includes but is not limited to at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.

4. Inventor(s) hereby authorize and request the Commissioner of Patents and Trademarks, or equivalent thereof, to issue the patent for the Invention, and all resulting patents therefrom, insofar as the Inventor(s)' interest is concerned, to the Assignee.

5. Inventor(s) further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect Assignee's rights, title, and interest in the Invention(s).

6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

7. Inventor(s) hereby further agree to, with respect to any patent application or patent for the Invention(s), at the expense of the Assignee:

- i) testify in any legal proceedings,
- ii) sign all lawful papers,
- iii) execute all divisional, continuation, continuation-in-part, reissue, reexamination, and substitute applications,

iv) make all lawful oaths, and assist in vesting title in the Assignee and to aid the Assignee to obtain and enforce proper protection for the subject matter of the Invention(s) in all countries and regions, and

v) notify Assignee promptly (by facsimile or first class mail) of any subpoena or contact by any person other than Assignee or its agents regarding the Invention or resultant patent(s) issuing therefrom, and in any event at least one week prior to any deposition, legal inquiry or legal proceeding relating to the above identified invention.

This assignment is executed on the date(s) of which the Inventor(s) have signed.

Inventor:

[Signature] (Signature) 2/24/2012 (Date)
Robert Scott Hartog (Print Name)

State of Massachusetts
County of Middlesex

On 2/24/2012 before me,
(insert date)

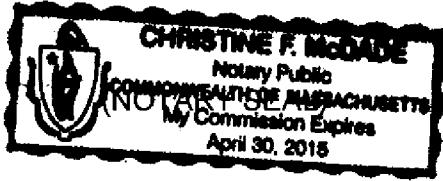
Christine F. McDade - Ex. Assistant / Notary

(insert name and title of the notarizing officer)

personally appeared Scott Hartog, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Massachusetts that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: *Christine F. McQuade*

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Ralph Clay Taylor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Ralph Clay Taylor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Michael Mantor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Michael Mantor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Thomas Roy Woller (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Thomas Roy Woller, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the

instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Kevin McGrath (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Kevin McGrath, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

Sebastien Nussbaum (Signature) Feb 23rd 2012 (Date)
Sebastien Nussbaum (Print Name)

State of Massachusetts
County of Middlesex

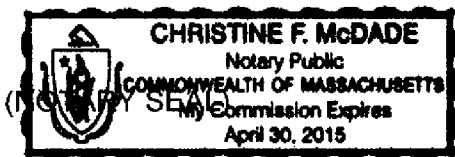
On 2/23/2012 before me,
(insert date)

Christine F. McDade - Exec Asst a Notary
(insert name and title of the notarizing officer)

personally appeared Sebastien Nussbaum, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Massachusetts that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: Christine F. McDade

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Nuwan S. Jayasena (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Nuwan S. Jayasena, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the

within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Rex McCrary (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Rex McCrary, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

Philip J. Rogers (Signature) 2/10/2012 (Date)

Philip J. Rogers (Print Name)

State of Massachusetts

County of Middlesex

On 2/10/2012 before me,
(insert date)

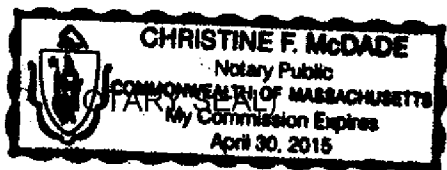
Christine F. McDade - Exec. Asst / Notary

(insert name and title of the notarizing officer)

personally appeared Philip J. Rogers, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Massachusetts that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: Christine F. McDade

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Mark Leather (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Mark Leather, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **(1.) Scott Hartog, (2.) Ralph Clay Taylor, (3.) Michael Mantor, (4.) Thomas Roy Woller, (5.) Kevin McGrath, (6.) Sebastien Nussbaum, (7.) Nuwan S. Jayasena, (8.) Rex McCrary, (9.) Philip J. Rogers, and (10.) Mark Leather** (hereinafter referred to as the "Inventor(s)") and Advanced Micro Devices, Inc., having a place of business at One AMD Place, Sunnyvale, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as inventors in the patent application filed in the **USA** on December 14, 2011, entitled **Software Mechanisms For Managing Task Scheduling On An Accelerated Processing Device (APD)**, having application no. 13/325,755, and having a docket number of **1972.232000** (hereinafter referred to as the "Application"); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

NOW, THEREFORE, the parties agree as follows:

1. To the extent that Inventor(s) are subject to a prior agreement transferring rights, title, and/or interest in the Invention(s) to the Assignee, Inventor(s) hereby confirm such transfer.

2. To the extent that Inventor(s) retain any rights, title, or interest in the Invention(s) not vested in the Assignee on the date(s) of execution of this Assignment, Inventor(s) hereby assign and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world, in and to: the Invention(s), including any patent applications, patents, invention registrations, and equivalents thereof (including any and all provisional, international, regional, and national patents and patent applications, and all divisions, continuations, continuations-in-part, renewals, reissues, reexams, substitutes and extensions thereof), for the Invention(s) and all rights to claim priority thereto. Inventor(s) further assign and

otherwise transfer to Assignee all causes of action and remedies arising under any patent or patent application for the Invention(s) prior to, on, or after the date(s) of execution of this Assignment. Inventor(s) shall not be entitled to an accounting for any causes of action or remedies pursued by Assignee.

3. The transfers set forth in Paragraphs 1 and 2 above are in consideration for the sum of at least one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable. Such consideration includes but is not limited to at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.

4. Inventor(s) hereby authorize and request the Commissioner of Patents and Trademarks, or equivalent thereof, to issue the patent for the Invention, and all resulting patents therefrom, insofar as the Inventor(s)' interest is concerned, to the Assignee.

5. Inventor(s) further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect Assignee's rights, title, and interest in the Invention(s).

6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

7. Inventor(s) hereby further agree to, with respect to any patent application or patent for the Invention(s), at the expense of the Assignee:

- i) testify in any legal proceedings,
- ii) sign all lawful papers,
- iii) execute all divisional, continuation, continuation-in-part, reissue, reexamination, and substitute applications,

iv) make all lawful oaths, and assist in vesting title in the Assignee and to aid the Assignee to obtain and enforce proper protection for the subject matter of the Invention(s) in all countries and regions, and

v) notify Assignee promptly (by facsimile or first class mail) of any subpoena or contact by any person other than Assignee or its agents regarding the Invention or resultant patent(s) issuing therefrom, and in any event at least one week prior to any deposition, legal inquiry or legal proceeding relating to the above identified invention.

This assignment is executed on the date(s) of which the Inventor(s) have signed.

Inventor:

_____ (Signature) _____ (Date)

Scott Hartog (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Scott Hartog, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Ralph Clay Taylor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Ralph Clay Taylor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Michael Mantor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Michael Mantor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Thomas Roy Woller (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Thomas Roy Woller, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the

instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Kevin McGrath (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Kevin McGrath, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

.....(Signature)(Date)

Sebastien Nussbaum (Print Name)

State of

County of

On before me,
(insert date)

.....
(insert name and title of the notarizing officer)

personally appeared Sebastien Nussbaum, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature:

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Nuwan S. Jayasena (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Nuwan S. Jayasena, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the

within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Rex McCrary (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Rex McCrary, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Philip J. Rogers (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Philip J. Rogers, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

Mark Leather (Signature) 3/30/12 (Date)
Mark Leather (Print Name)

State of California
County of Santa Clara

On March 30, 2012 before me,
(insert date)

Rita S. Margolis

(insert name and title of the notarizing officer)

personally appeared Mark Leather, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____



Witness # 1:



_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

N.S. Jay (Signature) 2/3/12 (Date)
Nuwan S. Jayasena (Print Name)

State of California)
County of Santa Clara)

On February 3, 2012 before me,
(insert date)

Rita S. Marguis

(insert name and title of the notarizing officer)

personally appeared Nuwan S. Jayasena, who proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the

within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify, under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: *Rita Marquis*

Witness # 1:



(Signature) (Date)
(Print Name)

Witness # 2:

(Signature) (Date)
(Print Name)

Inventor:

(Signature) (Date)
Rex McCrary (Print Name)

ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **(1.) Scott Hartog, (2.) Ralph Clay Taylor, (3.) Michael Mantor, (4.) Thomas Roy Woller, (5.) Kevin McGrath, (6.) Sebastien Nussbaum, (7.) Nuwan S. Jayasena, (8.) Rex McCrary, (9.) Philip J. Rogers, and (10.) Mark Leather** (hereinafter referred to as the "Inventor(s)") and Advanced Micro Devices, Inc., having a place of business at One AMD Place, Sunnyvale, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as inventors in the patent application filed in the **USA** on December 14, 2011, entitled **Software Mechanisms For Managing Task Scheduling On An Accelerated Processing Device (APD)**, having application no. 13/325,755, and having a docket number of **1972.2320000** (hereinafter referred to as the "Application"); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

NOW, THEREFORE, the parties agree as follows:

1. To the extent that Inventor(s) are subject to a prior agreement transferring rights, title, and/or interest in the Invention(s) to the Assignee, Inventor(s) hereby confirm such transfer.

2. To the extent that Inventor(s) retain any rights, title, or interest in the Invention(s) not vested in the Assignee on the date(s) of execution of this Assignment, Inventor(s) hereby assign and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world, in and to: the Invention(s), including any patent applications, patents, invention registrations, and equivalents thereof (including any and all provisional, international, regional, and national patents and patent applications, and all divisions, continuations, continuations-in-part, renewals, reissues, reexams, substitutes and extensions thereof), for the Invention(s) and all rights to claim priority thereto. Inventor(s) further assign and

otherwise transfer to Assignee all causes of action and remedies arising under any patent or patent application for the Invention(s) prior to, on, or after the date(s) of execution of this Assignment. Inventor(s) shall not be entitled to an accounting for any causes of action or remedies pursued by Assignee.

3. The transfers set forth in Paragraphs 1 and 2 above are in consideration for the sum of at least one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable. Such consideration includes but is not limited to at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.

4. Inventor(s) hereby authorize and request the Commissioner of Patents and Trademarks, or equivalent thereof, to issue the patent for the Invention, and all resulting patents therefrom, insofar as the Inventor(s)' interest is concerned, to the Assignee.

5. Inventor(s) further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect Assignee's rights, title, and interest in the Invention(s).

6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

7. Inventor(s) hereby further agree to, with respect to any patent application or patent for the Invention(s), at the expense of the Assignee:

- i) testify in any legal proceedings,
- ii) sign all lawful papers,
- iii) execute all divisional, continuation, continuation-in-part, reissue, reexamination, and substitute applications,

iv) make all lawful oaths, and assist in vesting title in the Assignee and to aid the Assignee to obtain and enforce proper protection for the subject matter of the Invention(s) in all countries and regions, and

v) notify Assignee promptly (by facsimile or first class mail) of any subpoena or contact by any person other than Assignee or its agents regarding the Invention or resultant patent(s) issuing therefrom, and in any event at least one week prior to any deposition, legal inquiry or legal proceeding relating to the above identified invention.

This assignment is executed on the date(s) of which the Inventor(s) have signed.

Inventor:

_____ (Signature) _____ (Date)

Scott Hartog (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Scott Hartog, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Florida that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(NOTARY SEAL)

Signature: Jennie Leanna Wilson

Witness # 1:

(Signature) _____ (Date)

(Print Name)

Witness # 2:

(Signature) _____ (Date)

(Print Name)

Inventor:

Ralph Clay Taylor (Signature) 3/22/12 (Date)
Ralph Clay Taylor (Print Name) RALPH CLAY TAYLOR

State of Florida)

County of Orange

On 3/22/2012 before me,
(insert date)

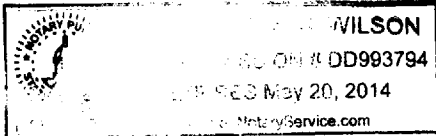
Jennie Leanna Wilson Receptionist 1

(insert name and title of the notarizing officer)

personally appeared Ralph Clay Taylor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Florida that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(NOTARY SEAL)



Signature: Jennie Leanna Wilson

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Michael Mantor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Michael Mantor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Thomas Roy Woller (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Thomas Roy Woller, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the

instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Kevin McGrath (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Kevin McGrath, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Sebastien Nussbaum (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Sebastien Nussbaum, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Nuwan S. Jayasena (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Nuwan S. Jayasena, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the

within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Rex McCrary (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Rex McCrary, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

PATENT

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Philip J. Rogers (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Philip J. Rogers, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Mark Leather (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Mark Leather, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) (1.) **Scott Hartog**, (2.) **Ralph Clay Taylor**, (3.) **Michael Mantor**, (4.) **Thomas Roy Woller**, (5.) **Kevin McGrath**, (6.) **Sebastien Nussbaum**, (7.) **Nuwan S. Jayasena**, (8.) **Rex McCrary**, (9.) **Philip J. Rogers**, and (10.) **Mark Leather** (hereinafter referred to as the "Inventor(s)") and Advanced Micro Devices, Inc., having a place of business at One AMD Place, Sunnyvale, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as inventors in the patent application filed in the **USA** on December 14, 2011, entitled **Software Mechanisms For Managing Task Scheduling On An Accelerated Processing Device (APD)**, having application no. 13/325,755, and having a docket number of **1972.2320000** (hereinafter referred to as the "Application"); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

NOW, THEREFORE, the parties agree as follows:

1. To the extent that Inventor(s) are subject to a prior agreement transferring rights, title, and/or interest in the Invention(s) to the Assignee, Inventor(s) hereby confirm such transfer.

2. To the extent that Inventor(s) retain any rights, title, or interest in the Invention(s) not vested in the Assignee on the date(s) of execution of this Assignment, Inventor(s) hereby assign and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world, in and to: the Invention(s), including any patent applications, patents, invention registrations, and equivalents thereof (including any and all provisional, international, regional, and national patents and patent applications, and all divisions, continuations, continuations-in-part, renewals, reissues, reexams, substitutes and extensions thereof), for the Invention(s) and all rights to claim priority thereto. Inventor(s) further assign and

otherwise transfer to Assignee all causes of action and remedies arising under any patent or patent application for the Invention(s) prior to, on, or after the date(s) of execution of this Assignment. Inventor(s) shall not be entitled to an accounting for any causes of action or remedies pursued by Assignee.

3. The transfers set forth in Paragraphs 1 and 2 above are in consideration for the sum of at least one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable. Such consideration includes but is not limited to at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.

4. Inventor(s) hereby authorize and request the Commissioner of Patents and Trademarks, or equivalent thereof, to issue the patent for the Invention, and all resulting patents therefrom, insofar as the Inventor(s)' interest is concerned, to the Assignee.

5. Inventor(s) further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect Assignee's rights, title, and interest in the Invention(s).

6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

7. Inventor(s) hereby further agree to, with respect to any patent application or patent for the Invention(s), at the expense of the Assignee:

- i) testify in any legal proceedings,
- ii) sign all lawful papers,
- iii) execute all divisional, continuation, continuation-in-part, reissue, reexamination, and substitute applications,

iv) make all lawful oaths, and assist in vesting title in the Assignee and to aid the Assignee to obtain and enforce proper protection for the subject matter of the Invention(s) in all countries and regions, and

v) notify Assignee promptly (by facsimile or first class mail) of any subpoena or contact by any person other than Assignee or its agents regarding the Invention or resultant patent(s) issuing therefrom, and in any event at least one week prior to any deposition, legal inquiry or legal proceeding relating to the above identified invention.

This assignment is executed on the date(s) of which the Inventor(s) have signed.

Inventor:

_____ (Signature) _____ (Date)

Scott Hartog (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Scott Hartog, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Ralph Clay Taylor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Ralph Clay Taylor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Michael Mantor (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Michael Mantor, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Thomas Roy Woller (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Thomas Roy Woller, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the

instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Kevin McGrath (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Kevin McGrath, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Sebastien Nussbaum (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Sebastien Nussbaum, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Nuwan S. Jayasena (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Nuwan S. Jayasena, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the

within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)


_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

 _____ (Signature) 3-27-2022 (Date)

Rex McCrary (Print Name)

State of Florida)

County of Orange)

On 3/07/2012 before me,
(insert date)

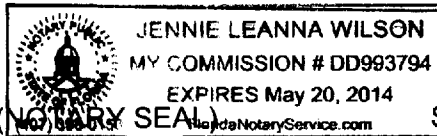
Jennie Leanna Wilson Receptionist 1

(insert name and title of the notarizing officer)

personally appeared Rex McCrary, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Florida that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: Jennie Leanna Wilson

Witness # 1:

_____ (Signature) _____ (Date)

_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)

_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)

Philip J. Rogers (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Philip J. Rogers, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor:

_____ (Signature) _____ (Date)
Mark Leather (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared Mark Leather, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)