

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT4173637

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADAPTIVE COMPUTING ENTERPRISES, INC.	11/22/2016

RECEIVING PARTY DATA

Name:	III HOLDINGS 12, LLC
Street Address:	2711 CENTERVILLE RD, SUITE 400
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19808

PROPERTY NUMBERS Total: 13

Property Type	Number
Application Number:	10530580
Application Number:	14709642
Application Number:	14751529
Application Number:	14833673
Application Number:	14872645
Application Number:	13760600
Application Number:	14850346
Application Number:	13855241
Application Number:	14106254
Application Number:	14331718
Application Number:	14154912
Application Number:	14331772
Application Number:	14691120

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 104985-0532

NAME OF SUBMITTER: SAMUEL CHASE MEANS

SIGNATURE: /S. Chase Means/

DATE SIGNED: 12/07/2016

Total Attachments: 18

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ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Adaptive Computing Enterprises, Inc., a Delaware corporation having offices at 1712 S East Bay Blvd, Suite 300, Provo, Utah 84606 (“*Assignor*”), does hereby sell, assign, transfer, and convey unto III Holdings 12, LLC, a Delaware limited liability company, with an address at 2711 Centerville Rd, Suite 400, Wilmington, DE 19808 (“*Assignee*”), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the “*Patent Rights*”):

(a) the provisional patent applications, patent applications and patents listed in the table below (the “*Patents*”);

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
JP5355592	JP	01/31/2008	SYSTEM AND METHOD FOR MANAGING A HYBRID COMPUTE ENVIRONMENT David Brian Jackson
CA2738881	CA	10/03/2008	SYSTEM AND METHOD FOR DYNAMICALLY MANAGING DATA CENTRIC SEARCHES David Brian Jackson
IN2247/CHENP/2011	IN	10/03/2008	SYSTEM AND METHOD FOR DYNAMICALLY MANAGING DATA CENTRIC SEARCHES David Brian Jackson
8850434	US	09/14/2012	System and method of constraining auto live migration of virtual machines using group tags Joshua Marshall Butikofer
9075657	US	04/07/2006	On-Demand Access to Compute Resources David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
8782120	US	05/02/2011	Elastic Management of Compute Resources Between a Web Server and an On-Demand Compute Environment David Brian Jackson
14/791873	US	07/06/2015	On-Demand Access to Compute Resources David Brian Jackson
9176785	US	03/11/2005	System and method for providing multi-resource management support in a compute environment David Brian Jackson
9268607	US	03/11/2005	System and method of providing a self-optimizing reservation in space of compute resources David Brian Jackson
10/530580	US	03/11/2005	System and Method Providing Object Messages in a Compute Environment David B. Jackson
8413155	US	03/11/2005	System and method for a self-optimizing reservation in time of compute resources David B. Jackson
7971204	US	03/11/2005	System and method of co-allocating a reservation spanning different compute resources types David Brian Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
7620706	US	03/11/2005	System and method for providing advanced reservations in a compute environment David Brian Jackson
7490325	US	03/11/2005	System and method for providing intelligent pre-staging of data in a compute environment David B. Jackson
7890629	US	06/17/2005	System and method of providing reservation masks within a compute environment David Brian Jackson
8321871	US	06/17/2005	System and method of using transaction IDS for managing reservations of compute resources within a compute environment David Brian Jackson
8037475	US	06/17/2005	System and method for providing dynamic provisioning within a compute environment David Brian Jackson
8370898	US	06/17/2005	System and method for providing threshold-based access to compute resources David Brian Jackson
8176490	US	08/19/2005	System and method of interfacing a workload manager and scheduler with an identity manager David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
7996455	US	08/19/2005	System and method for providing dynamic roll-back reservations in time David B. Jackson
8782654	US	12/26/2006	CO-ALLOCATING A RESERVATION SPANNING DIFFERENT COMPUTE RESOURCES TYPES David B. Jackson
EP07709939.8	EP	01/04/2007	CO-ALLOCATING A RESERVATION SPANNING DIFFERENT COMPUTE RESOURCES TYPES David Brian Jackson
JP5231448	JP	01/04/2007	CO-ALLOCATING A RESERVATION SPANNING DIFFERENT COMPUTE RESOURCES TYPES David Brian Jackson
7725583	US	05/22/2007	System and method for providing advanced reservations in a compute environment David B.Jackson
8763000	US	12/29/2008	SYSTEM AND METHOD FOR PROVIDING INTELLIGENT PRE-STAGING OF DATA IN A COMPUTE ENVIRONMENT David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
9128767	US	10/06/2009	SYSTEM AND METHOD FOR PROVIDING ADVANCED RESERVATIONS IN A COMPUTE ENVIRONMENT David B. Jackson
8150972	US	02/10/2011	SYSTEM AND METHOD OF PROVIDING RESERVATION MASKS WITHIN A COMPUTE ENVIRONMENT David B. Jackson
8418186	US	06/27/2011	SYSTEM AND METHOD OF CO-ALLOCATING A RESERVATION SPANNING DIFFERENT COMPUTE RESOURCES TYPES David B. Jackson
8572253	US	08/08/2011	System and method for providing dynamic roll-back David Brian Jackson
9069611	US	10/10/2011	SYSTEM AND METHOD FOR PROVIDING DYNAMIC PROVISIONING WITHIN A COMPUTE ENVIRONMENT David B. Jackson
8806492	US	05/08/2012	System and method of interfacing a workload manager and scheduler with an identity manager David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
8984524	US	11/27/2012	System and method of using transaction IDS for managing reservations of compute resources within a compute environment David Brian Jackson
9135066	US	02/04/2013	SYSTEM AND METHOD FOR PROVIDING THRESHOLD-BASED ACCESS TO COMPUTE RESOURCES David Brian Jackson
13/760600	US	02/06/2013	SYSTEM AND METHOD OF CO-ALLOCATING A RESERVATION SPANNING DIFFERENT COMPUTE RESOURCES TYPES David Brian Jackson
13/855241	US	04/02/2013	System and Method for a Self-Optimizing Reservation in Time of Compute Resources David B. Jackson
8943207	US	10/28/2013	System and method for providing dynamic roll-back reservations in time David Brian Jackson
14/106254	US	12/13/2013	SYSTEM AND METHOD OF PERFORMING A PRE-RESERVATION ANALYSIS TO YIELD AN IMPROVED FIT OF WORKLOAD WITH THE COMPUTE ENVIRONMENT David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
RE45593	US	01/23/2014	System and method for providing object triggers David Brian Jackson
14/331718	US	07/15/2014	CO-ALLOCATING A RESERVATION SPANNING DIFFERENT COMPUTE RESOURCES TYPES David Brian Jackson
9038078	US	08/07/2014	System and Method of Interfacing a Workload Manager and Scheduler with an Identity Manager David B. Jackson
14/709642	US	05/12/2015	System and Method For a Workload Management and Scheduling Module to Manage Access to a Compute Environment According to Local and Non-Local User Identity Information David B. Jackson
14/744746	US	06/19/2015	SYSTEM AND METHOD FOR PROVIDING DYNAMIC PROVISIONING WITHIN A COMPUTE ENVIRONMENT David B. Jackson
14/751529	US	06/26/2015	SYSTEM AND METHOD FOR PROVIDING OBJECT TRIGGERS David Brian Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
14/842916	US	09/02/2015	SYSTEM AND METHOD FOR PROVIDING ADVANCED RESERVATIONS IN A COMPUTE ENVIRONMENT David Brian Jackson
14/850346	US	09/10/2015	SYSTEM AND METHOD FOR PROVIDING THRESHOLD-BASED ACCESS TO COMPUTE RESOURCES David Brian Jackson
15/049542	US	02/22/2016	SYSTEM AND METHOD OF PROVIDING A SELF-OPTIMIZING RESERVATION IN SPACE OF COMPUTE RESOURCES David Brian Jackson
7774471	US	06/14/2007	Optimized multi-component co-allocation scheduling with advanced reservations for data transfers and distributed jobs David B. Jackson
IN6890/CHENP/2008	IN	06/15/2007	OPTIMIZED MULTI-COMPONENT CO-ALLOCATION SCHEDULING WITH ADVANCED RESERVATIONS FOR DATA TRANSFERS AND DISTRIBUTED JOBS David Brian Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
8200824	US	07/23/2010	Optimized Multi-Component Co-Allocation Scheduling With Advanced Reservations for Data Transfers and Distributed Jobs David B. Jackson
8782246	US	06/11/2012	Optimized multi-component co-allocation scheduling with advanced reservations for data transfers and distributed jobs David Brian Jackson
9417926	US	07/15/2014	OPTIMIZED MULTI-COMPONENT CO-ALLOCATION SCHEDULING WITH ADVANCED RESERVATIONS FOR DATA TRANSFERS AND DISTRIBUTED JOBS David Brian Jackson
8930536	US	03/16/2006	Virtual Private Cluster David B. Jackson
9413687	US	03/16/2006	Automatic workload transfer to an on-demand center David B. Jackson
8782231	US	03/16/2006	Simple integration of on-demand compute environment David B. Jackson
8631130	US	03/16/2006	Reserving Resources in an On-Demand Compute Environment from a local compute environment David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
7698430	US	03/16/2006	On-demand compute environment David B. Jackson
8863143	US	01/31/2008	SYSTEM AND METHOD FOR MANAGING A HYBRID COMPUTE ENVIRONMENT David B. Jackson
8370495	US	04/01/2010	On-Demand Compute Environment David B. Jackson
9015324	US	03/13/2012	SYSTEM AND METHOD OF BROKERING CLOUD COMPUTING RESOURCES David Brian Jackson
9112813	US	02/04/2013	ON-DEMAND COMPUTE ENVIRONMENT David Brian Jackson
14/154912	US	01/14/2014	RESERVING RESOURCES IN AN ON-DEMAND COMPUTE ENVIRONMENT David B. Jackson
14/331772	US	07/15/2014	SIMPLE INTEGRATION OF ON-DEMAND COMPUTE ENVIRONMENT David Brian Jackson
9116755	US	10/14/2014	SYSTEM AND METHOD FOR MANAGING A HYBRID COMPUTE ENVIRONMENT David Brian Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
14/590102	US	01/06/2015	System and Method Providing A Virtual Private Cluster David Brian Jackson
14/691120	US	04/20/2015	SYSTEM AND METHOD OF BROKERING CLOUD COMPUTING RESOURCES David B. Jackson
9225663	US	05/05/2015	SYSTEM AND METHOD PROVIDING A VIRTUAL PRIVATE CLUSTER David Brian Jackson
9231886	US	05/05/2015	SIMPLE INTEGRATION OF AN ON-DEMAND COMPUTE ENVIRONMENT David Brian Jackson
14/827927	US	08/17/2015	On-Demand Compute Environment David Brian Jackson
14/833673	US	08/24/2015	SYSTEM AND METHOD FOR MANAGING A HYBRID COMPUTE ENVIRONMENT David Brian Jackson
14/987059	US	01/04/2016	SIMPLE INTEGRATION OF AN ON-DEMAND COMPUTE ENVIRONMENT David Brian Jackson
8271807	US	07/24/2008	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
ZA2010/07775	ZA	07/24/2008	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David Brian Jackson
IN7379/CHENP/2010	IN	07/24/2008	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David Brian Jackson
JP5529114	JP	07/24/2008	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David Brian Jackson
8245059	US	08/12/2010	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson
8271813	US	08/12/2010	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson
8276008	US	08/12/2010	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson
9026807	US	08/12/2010	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
8549333	US	09/18/2012	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David Brian Jackson
9405348	US	11/15/2013	SYSTEM AND METHOD FOR MANAGING ENERGY CONSUMPTION IN A COMPUTE ENVIRONMENT David Brian Jackson
9411393	US	05/04/2015	System and Method for Managing Energy Consumption in a Compute Environment David Brian Jackson
8108869	US	03/11/2005	System and Method For Enforcing Future Policies in a Compute Environment David Brian Jackson
8464266	US	01/31/2012	System and Method for Enforcing Future Policies in a Compute Environment David Brian Jackson
9298514	US	06/11/2013	System and Method for Enforcing Future Policies in a Compute Environment David Brian Jackson
8271980	US	11/08/2005	System and Method of Providing System Jobs Within a Compute Environment David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
9152455	US	09/18/2012	SYSTEM AND METHOD OF PROVIDING SYSTEM JOBS WITHIN A COMPUTE ENVIRONMENT David B. Jackson
14/872645	US	10/01/2015	System and Method of Providing System Jobs Within a Compute Environment David B. Jackson
8504548	US	10/03/2008	SYSTEM AND METHOD FOR DYNAMICALLY MANAGING DATA CENTRIC SEARCHES David B. Jackson
8949213	US	08/05/2013	System and method for dynamically managing data centric searches David Brian Jackson
7870552	US	02/09/2006	System and method of providing a fixed time offset based dedicated co-allocation of a common resource set David B. Jackson
8341634	US	01/10/2011	SYSTEM AND METHOD OF PROVIDING A FIXED TIME OFFSET BASED DEDICATED CO-ALLOCATION OF A COMMON RESOURCE SET David Brian Jackson
8739173	US	12/21/2012	System and method of providing a fixed time offset based dedicated co-allocation of a common resource set David B. Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
9239736	US	03/28/2014	SYSTEM AND METHOD OF PROVIDING A FIXED TIME OFFSET BASED DEDICATED CO-ALLOCATION OF A COMMON RESOURCE SET David Brian Jackson
EP06769779.7	EP	03/16/2006	AUTOMATIC WORKLOAD TRANSFER TO AN ON-DEMAND CENTER David Brian Jackson
EP11162212.2	EP	03/16/2006	AUTOMATIC WORKLOAD TRANSFER TO AN ON-DEMAND CENTER David Brian Jackson
EP11162213.0	EP	03/16/2006	AUTOMATIC WORKLOAD TRANSFER TO AN ON-DEMAND CENTER David Brian Jackson
EP11162215.5	EP	03/16/2006	AUTOMATIC WORKLOAD TRANSFER TO AN ON-DEMAND CENTER David Brian Jackson
EP11162216.3	EP	03/16/2006	AUTOMATIC WORKLOAD TRANSFER TO AN ON-DEMAND CENTER David Brian Jackson
EP11162217.1	EP	03/16/2006	AUTOMATIC WORKLOAD TRANSFER TO AN ON-DEMAND CENTER David Brian Jackson
EP06749901.2	EP	04/07/2006	ON-DEMAND ACCESS TO COMPUTE RESOURCES David Brian Jackson

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
EP08728692.8	EP	01/31/2008	SYSTEM AND METHOD FOR MANAGING A HYBRID COMPUTE ENVIRONMENT David Brian Jackson

(b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, and/or (ii) for which any of the Patents directly or indirectly forms a basis for priority;

(c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);

(d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;

(e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents above and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(f) inventions, invention disclosures, and discoveries described in any of the Patents and/or any item in the foregoing categories (b) through (e) that (i) are included in any claim in the Patents and/or any item in the foregoing categories (b) through (e), (ii) are subject matter capable of being reduced to a patent claim in a reissue or reexamination proceeding brought on any of the Patents and/or any item in the foregoing categories (b) through (e), and/or (iii) could have been included as a claim in any of the Patents and/or any item in the foregoing categories (b) through (e);

(g) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (f), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

(h) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (b) through (g), including, without limitation, all causes of action and other enforcement rights for

- (1) damages,
- (2) injunctive relief, and
- (3) any other remedies of any kind

for past, current, and future infringement; and

- (i) all rights to collect royalties and other payments under or on account of any of the Patents and/or any item in any of the foregoing categories (b) through (h).

Assignor represents, warrants and covenants that:

- (1) Assignor has the full power and authority, and has obtained all third party consents, approvals and/or other authorizations required to enter into this Agreement and to carry out its obligations hereunder, including the assignment of the Patent Rights to Assignee; and

- (2) Assignor owns, and by this document assigns to Assignee, all right, title, and interest to the Patent Rights, including, without limitation, all right, title, and interest to sue for infringement of the Patent Rights. Assignor has obtained and properly recorded previously executed assignments for the Patent Rights as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction. The Patent Rights are free and clear of all liens, claims, mortgages, security interests or other encumbrances, and restrictions. There are no actions, suits, investigations, claims or proceedings threatened, pending or in progress relating in any way to the Patent Rights. There are no existing contracts, agreements, options, commitments, proposals, bids, offers, or rights with, to, or in any person to acquire any of the Patent Rights.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

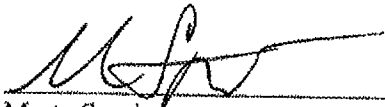
Assignor will, at the reasonable request of Assignee, do all things necessary, proper, or advisable, including without limitation, the execution, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights.

The terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at 4:15 PM
on November, 22, 2016.

ASSIGNOR:

Adaptive Computing Enterprises, Inc.

By: 
Name: Marty Smuin

Title: CEO

(Signature MUST be attested)

ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. § 1746

The undersigned witnessed the signature of MARTY SMUIN to the above Assignment of Patent Rights on behalf of Adaptive Computing Enterprises, Inc. and makes the following statements:

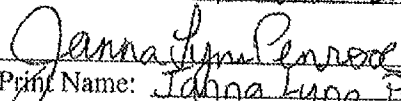
1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.

2. Marty Smuin is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on Nov. 22 2016 to execute the above Assignment of Patent Rights on behalf of Adaptive Computing Enterprises, Inc.

3. Marty Smuin subscribed to the above Assignment of Patent Rights on behalf of Adaptive Computing Enterprises, Inc.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

EXECUTED on November 22, 2016 (date)


Print Name: Janna Lynn Penrose

