

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4119146

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GNODAL LIMITED	10/21/2013
RECEIVING PARTY DATA	
Name:	CRAY UK LIMITED
Street Address:	2 BREWERY COURT
Internal Address:	HIGH STREET
City:	THEALE, READING
State/Country:	ENGLAND
Postal Code:	RG7 5AH
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14562347
CORRESPONDENCE DATA	
Fax Number:	(952)896-3333
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	9528963245
Email:	ipgroup@larkinhoffman.com
Correspondent Name:	CRAIG J. LERVICK
Address Line 1:	8300 NORMAN CENTER DRIVE
Address Line 2:	SUITE 1000
Address Line 4:	MINNEAPOLIS, MINNESOTA 55437
ATTORNEY DOCKET NUMBER:	37178.10004US02
NAME OF SUBMITTER:	CRAIG J. LERVICK
SIGNATURE:	/CRAIG J. LERVICK/
DATE SIGNED:	10/28/2016
Total Attachments: 6	
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source=GnodaltoCrayUK#page6.tif

Patent Assignment

This Patent Assignment is made the 21ST day of OCTOBER 2013,

Between:

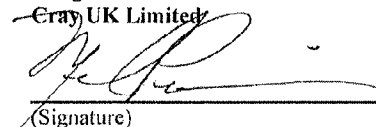
- (1) **Gnodal Limited (in administration)**, a company registered in England and Wales with registered number 06147615 with a registered office at Bridgewater House, Finzels Reach, Counterslip, Bristol, England BS1 6BX acting by its joint administrators Simon Girling and Graham Randall of BDO LLP Bridgewater House, Finzels Reach, Counterslip, Bristol, England BS1 6BX (the "Assignor");
- (2) **Simon Edward Jex Girling and Graham David Randall** aforesaid (together the "Administrators"); and
- (3) **CRAY UK LIMITED** (a company registered in England and Wales with registered number 03941275) whose registered office is at 2 Brewery Court, High Street, Theale, Reading, RG7 5AH ("Assignee").

WHEREAS, Assignor and Assignee are parties to a certain Agreement dated _____ (the "Agreement") and a certain Intellectual Property Rights Agreement dated _____ (the "IPR Agreement"), under which Assignee received all Assignor's right, title and interest in and to certain intellectual property rights as defined therein, including the patents and/or patent applications as identified on attached Exhibit 1 (collectively the "Patents"); and

WHEREAS, pursuant to the terms of the Agreement and the IPR Agreement, the parties execute this Patent Assignment for recording the transfer of ownership of the Patents with the appropriate patent authorities in all relevant jurisdictions;

NOW, THEREFORE, for the good and valuable consideration as set forth in the Agreement and the IPR Agreement, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, the entire right, title and interest in and to said Patents pursuant to the Agreement and IPR Agreement. The said entire right, title and interest shall vest irrevocably in Assignee, and this assignment shall inure to the benefit of Assignee and Assignee's successors and assigns and shall be binding upon Assignor, and Assignor's successors and assigns.

Administrators for and on behalf of Assignor (for so long as they remain in office) covenant and agree to cooperate fully with, but at the cost of, Assignee as necessary or desirable to vest the enjoyment of, and to secure, perfect, maintain or enforce said entire right, title and interest in, to and under said Patents in and to Assignee.

<p>Assignor: Simon Edward Jex Girling, for and on behalf of, Gnodal Limited (in administration) as agent for Assignor without personal liability</p> <p>_____</p> <p>(Signature)</p> <p>Administrator: Simon Edward Jex Girling as joint administrator for Gnodal Limited (in administration) without personal liability</p> <p>_____</p> <p>(Signature)</p>	<p>Assignee: Cray UK Limited</p> <p></p> <p>(Signature)</p> <p>Name: <u>Michael Piraino</u></p> <p>Title: <u>Director</u></p>
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_____))
_____)) ss.
_____)

On this _____ day of _____, 2013, before me, a notary public, came Simon Edward Jex Girling, personally known to me or proved by satisfactory evidence, and who signed the foregoing instrument in my presence and acknowledged to me that he/she executed the instrument for the purpose set forth therein in his/her authorized capacity on behalf of **Gnodal Limited (in administration)**.

(Seal)

Signature: _____

My commission expires: _____

_____))
_____)) ss.
_____)

On this _____ day of _____, 2013, before me, a notary public, came Simon Edward Jex Girling, personally known to me or proved by satisfactory evidence, and who signed the foregoing instrument in my presence and acknowledged to me that he/she executed the instrument for the purpose set forth therein in his/her authorized capacity on behalf of **the Administrators**.

(Seal)

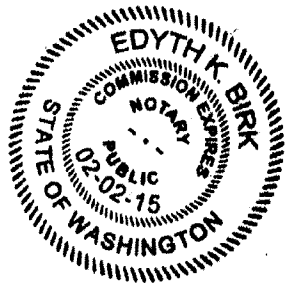
Signature: _____

My commission expires: _____

STATE OF Washington)
COUNTY OF King) ss.

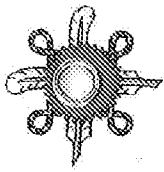
On this 21st day of October, 2013, before me, a notary public, came Michael Firano, personally known to me or proved by satisfactory evidence, and who signed the foregoing instrument in my presence and acknowledged to me that he/she executed the instrument for the purpose set forth therein in his/her authorized capacity on behalf of **CRAY UK LIMITED**

(Seal)



Signature: Edyth K Birk

My commission expires: 2/2/2015



Protocol No: 462/13

Patent Assignment

This Patent Assignment is made the 21 day of October 2013,

Between:



- (1) **Gnodal Limited (in administration)**, a company registered in England and Wales with registered number 06147615 with a registered office at Bridgewater House, Finzels Reach, Counterslip, Bristol, England BS1 6BX acting by its joint administrators Simon Girling and Graham Randall of BDO LLP Bridgewater House, Finzels Reach, Counterslip, Bristol, England BS1 6BX (the "Assignor");
- (2) **Simon Edward Jex Girling and Graham David Randall** aforesaid (together the "Administrators"); and
- (3) **CRAY UK LIMITED** (a company registered in England and Wales with registered number 03941275) whose registered office is at 2 Brewery Court, High Street, Theale, Reading, RG7 5AH ("Assignee").

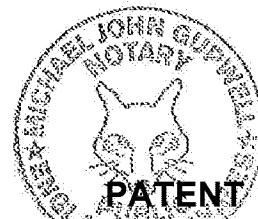
WHEREAS, Assignor and Assignee are parties to a certain Agreement dated ~~21 October 2013~~ (the "Agreement") and a certain Intellectual Property Rights Agreement dated ~~21 October 2013~~ (the "IPR Agreement"), under which Assignee received all Assignor's right, title and interest in and to certain intellectual property rights as defined therein, including the patents and/or patent applications as identified on attached Exhibit 1 (collectively the "Patents"); and

WHEREAS, pursuant to the terms of the Agreement and the IPR Agreement, the parties execute this Patent Assignment for recording the transfer of ownership of the Patents with the appropriate patent authorities in all relevant jurisdictions;

NOW, THEREFORE, for the good and valuable consideration as set forth in the Agreement and the IPR Agreement, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, the entire right, title and interest in and to said Patents pursuant to the Agreement and IPR Agreement. The said entire right, title and interest shall vest irrevocably in Assignee, and this assignment shall inure to the benefit of Assignee and Assignee's successors and assigns and shall be binding upon Assignor, and Assignor's successors and assigns.

Administrators for and on behalf of Assignor (for so long as they remain in office) covenant and agree to cooperate fully with, but at the cost of, Assignee as necessary or desirable to vest the enjoyment of, and to secure, perfect, maintain or enforce said entire right, title and interest in, to and under said Patents in and to Assignee.

<p>Assignor: Simon Edward Jex Girling, for and on behalf of, Gnodal Limited (in administration) as agent for Assignor without personal liability</p> <p> _____ (Signature)</p> <p>Administrator: Simon Edward Jex Girling as joint administrator for Gnodal Limited (in administration) without personal liability</p> <p> _____ (Signature)</p>	<p>Assignee: Cray UK Limited</p> <p>_____ (Signature)</p> <p>Name: _____</p> <p>Title: _____</p>
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STATE OF ENGLAND)
COUNTY OF BRISTOL) ss.

On this 21st day of October, 2013, before me, a notary public, came Simon Edward Jex Girling, personally known to me or proved by satisfactory evidence, and who signed the foregoing instrument in my presence and acknowledged to me that he/she executed the instrument for the purpose set forth therein in his/her authorized capacity on behalf of **Gnodal Limited (in administration)**.

(Seal)
MICHAEL GUPWELL
NOTARY PUBLIC
at 7 QUEEN SQUARE
BRISTOL
BS1 4JE
TEL: 01179069400

Signature: M. Gupwell

My commission expires: _____

My faculty endures for so long as I shall practise

STATE OF ENGLAND)
COUNTY OF BRISTOL) ss.

On this 21st day of October, 2013, before me, a notary public, came Simon Edward Jex Girling, personally known to me or proved by satisfactory evidence, and who signed the foregoing instrument in my presence and acknowledged to me that he/she executed the instrument for the purpose set forth therein in his/her authorized capacity on behalf of the **Administrators**.

(Seal)
MICHAEL GUPWELL
NOTARY PUBLIC
at 7 QUEEN SQUARE
BRISTOL
BS1 4JE
TEL: 01179069400

Signature: M. Gupwell

My commission expires: _____

My faculty endures for so long as I shall practise

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 2013, before me, a notary public, came _____, personally known to me or proved by satisfactory evidence, and who signed the foregoing instrument in my presence and acknowledged to me that he/she executed the instrument for the purpose set forth therein in his/her authorized capacity on behalf of **CRAY UK LIMITED**

(Seal)

Signature: _____

My commission expires: _____



Exhibit 1

	Short Title	Application No./Patent No.	Country	Status
1	ETHERNET FORWARDING DATABASE METHOD	200980131561.2/-	China	Pending
2	An Ethernet Bridge and a Method of Data Delivery Across a Network	200980119601.1/-	China	Pending
3	A Method of Data Delivery Across a Network	200980117289.2/-	China	Pending
4	Method of Data Delivery Across a Network	200980126011.1/-	China	Pending
5	Method of Data Delivery Across a Network	200980123584.9/-	China	Pending
6	A method of controlling data propagation within a network	200980129364.7/-	China	Pending
7	A multi-path network	200980128858.3/-	China	Pending
8	A multi-path network	200980131203.1/-	China	Pending
9	Link Aggregation (LAG)	201180035105.5/-	China	Pending
10	Incast Active Packet Drop	201180033540.7/-	China	Pending
11	Parallel Adaptive Routing Arbitration	201180035100.2 / -	China	Pending
12	Synchronised reassertion of requests	201180034368.4 / -	China	Pending
13	Reduced Latency Clock Domain Crossing	201180036577.2 / -	China	Pending
14	Chassis Design	201180045567.5 / -	China	Pending
	Short Title	Application No./Patent No.	Country	Status
15	ETHERNET FORWARDING DATABASE METHOD	09784920.2/2314027	Hong Kong	Granted
16	An Ethernet Bridge and a Method of Data Delivery Across a Network	11109384.2	Hong Kong	Pending
17	A Method of Data Delivery Across a Network	09746062.0/-	Hong Kong	Pending
18	Method of Data Delivery Across a Network	09761961.3/-	Hong Kong	Pending
19	Method of Data Delivery Across a Network	09769561.3/-	Hong Kong	Pending
20	A method of controlling data propagation within a network	09784659.6/-	Hong Kong	Pending
21	A multi-path network	09784777.6/-	Hong Kong	Pending
22	A multi-path network	09784870.9/-	Hong Kong	Pending
	Short Title	Application No./Patent No.	Country	Status
23	ETHERNET FORWARDING DATABASE METHOD	09784920 / 2314027	European Patent Convention (EPC)	Granted
24	An Ethernet Bridge and a Method of Data Delivery Across a Network	09738399.6/-	EPC	Pending
25	A Method of Data Delivery Across a Network	09746062.0/-	EPC	Pending
26	Method of Data Delivery Across a Network	09761961.3/-	EPC	Pending
27	Method of Data Delivery Across a Network	09769561.3/-	EPC	Pending
28	A method of controlling data propagation within a network	09784659.6/-	EPC	Pending
29	A multi-path network	09784777.6/-	EPC	Pending
30	A multi-path network	09784870.9/-	EPC	Pending
31	Link Aggregation (LAG)	11745568 / -	EPC	Pending
32	Incast Active Packet Drop	11749218.1 / -	EPC	Pending
33	Parallel Adaptive Routing Arbitration	11745569.1 / -	EPC	Pending
34	Synchronised reassertion of requests	11745570.9	EPC	Pending
35	Reduced Latency Clock Domain Crossing	11751924.9	EPC	Pending
36	Chassis Design	11767459.8 / -	EPC	Pending
	Short Title	Application No./Patent No.	Country	Status
37	ETHERNET FORWARDING DATABASE METHOD	09784920.2/2314027	France	Granted

	Short Title	Application No./Patent No.	Country	Status
38	ETHERNET FORWARDING DATABASE METHOD	09784920.2/2314027	Germany	Granted
	Short Title	Application No./Patent No.	Country	Status
39	ETHERNET FORWARDING DATABASE METHOD	0814808.0/2462493	United Kingdom	Granted
40				
41	An Ethernet Bridge and a Method of Data Delivery Across a Network	0807937.8/2459838	United Kingdom	Granted
42	A Method of Data Delivery Across a Network	0808862.7/2460070	United Kingdom	Granted
43	Method of Data Delivery Across a Network	0810503.3/2462406	United Kingdom	Granted
44	Method of Data Delivery Across a Network - second invention	1014513.4/2 470 675	United Kingdom	Granted
45	Method of Data Delivery Across a Network	0811813.5/2461132	United Kingdom	Granted
46	A method of controlling data propagation within a network	0812460.4/2463307	United Kingdom	Granted
47	A multi-path network	0814869.4/2462492	United Kingdom	Granted
48	A multi-path network	0813630.1/-	United Kingdom	Pending
49	Link Aggregation (LAG)	1012037.6/-	United Kingdom	Pending
50	Incast Active Packet Drop	1011442.9/-	United Kingdom	Pending
51	Parallel Adaptive Routing Arbitration	1012231.5/-	United Kingdom	Pending
52	Synchronised reassertion of requests	1011910.5/-	United Kingdom	Pending
53	Reduced Latency Clock Domain Crossing	1012605.0/-	United Kingdom	Pending
54	Chassis Design	1014504.3/-	United Kingdom	Pending
	Short Title	Application No./Patent No.	Country	Status
55	Link Aggregation (LAG)	PCT/GB2011/051331/-	Patent Cooperation Treaty (PCT)	Pending
56	Incast Active Packet Drop	PCT/GB2011/051272/-	PCT	Pending
57	Parallel Adaptive Routing Arbitration	PCT/GB2011/051334/-	PCT	Pending
58	Synchronised reassertion of requests	PCT/GB2011/051336/-	PCT	Pending
59	Reduced Latency Clock Domain Crossing	PCT/GB2011/051428/-	PCT	Pending
60	Chassis Design	PCT/GB2011/051627/-	PCT	Pending
	Short Title	Application No./Patent No.	Country	Status
61	Chassis Design	29/400,875 / D683299	United States	Granted
62	ETHERNET FORWARDING DATABASE METHOD	13/058,864 / 8542686	United States	Pending
63	An Ethernet Bridge and a Method of Data Delivery Across a Network	12/990,370 / -	United States	Pending
64	A Method of Data Delivery Across a Network	12/992,875/-	United States	Pending
65	Method of Data Delivery Across a Network	12/997,226/-	United States	Pending
66	Method of Data Delivery Across a Network	12/997,604/-	United States	Pending
67	A method of controlling data propagation within a network	13/003,177 / 8542679	United States	Pending
68	A multi-path network	13/055,408/-	United States	Pending
69	A multi-path network	13/059,037/-	United States	Pending
70	Parallel Adaptive Routing Arbitration	13/703,293 / -	United States	Pending
71	Link Aggregation (LAG)	13/704,206 / -	United States	Pending
72	Incast Active Packet Drop	13/704,196 / -	United States	Pending
73	Synchronised reassertion of requests	13/704,350 / -	United States	Pending
74	Reduced Latency Clock Domain Crossing	13/703,582 / -	United States	Pending
75	Chassis Design	13/820,094 / -	United States	Pending



PATENT