OpenFabrics Alliance

Interoperability Logo Group (OFILG)

May 2014 Logo Event Report

UNH-IOL – 121 Technology Drive, Suite 2 – Durham, NH 03824 – +1-603-862-0090
OpenFabrics Interoperability Logo Group (OFILG) – ofalab@iol.unh.edu

Harry Cropper
Intel Corporation
1300 S. MoPac Expressway
Austin, TX 78746

Date:	31 July 2014
Report Revision:	1.1
OFED Version:	3.12
OS Version:	Scientific Linux 6.5

Enclosed are the results from OFA Logo testing performed on the following device under test (DUT):

Intel NE020 RNIC

The test suite referenced in this report is available at the UNH-IOL website. Release 1.50 (2014-May-06) was used.

http://www.iol.unh.edu/ofatestplan

The following table highlights the Mandatory test results required for the OpenFabrics Interoperability Logo for the DUT per the Test Plan referenced above and the current OpenFabrics Interoperability Logo Program (OFILP).

Test Procedures	IWG Test Status	Result/Notes
12.1: Ethernet Link Initialization	Mandatory	PASS
13.4: TI uDAPL	Mandatory	PASS
13.5: TI RDMA Basic Interoperability	Mandatory	PASS
13.6: TI RDMA Stress	Mandatory	PASS
13.7: TI MPI – Open MPI	Mandatory	PASS

Summary of all results follows on the second page of this report.
For specific details regarding issues, please see the corresponding test result.

Testing Completed June 9, 2014

Charles Valenza
cvalenza@iol.unh.edu

UNH-IOL

Digitally signed by UNH-IOL
DN: cn=UNH-IOL, o=InterOperability Laboratory, ou=University of New Hampshire, email=info@iol.unh.edu, c=US
Date: 2014.07.31 14:41:50 -04'00'

Review Completed July 31, 2014

Edward Mossman
emossman@iol.unh.edu

Result Summary

The Following table summarizes all results from the event pertinent to this iWARP device class.

Test Procedures	IWG Test Status	Result/Notes
12.1: Ethernet Link Initialization	Mandatory	PASS
13.1: TI iSER	Beta	Not Available
13.2: TI NFS over RDMA	Beta	Not Supported
13.4: TI uDAPL	Mandatory	PASS
13.5: TI RDMA Basic Interoperability	Mandatory	PASS
13.6: TI RDMA Stress	Mandatory	PASS
13.7: TI MPI – Open MPI	Mandatory	PASS

Digital Signature Information

This document was created using an Adobe digital signature. A digital signature helps to ensure the authenticity of the document, but only in this digital format. For information on how to verify this document's integrity proceed to the following site:

http://www.iol.unh.edu/certifyDoc/

If the document status still indicates "Validity of author NOT confirmed", then please contact the UNH-IOL to confirm the document's authenticity. To further validate the certificate integrity, Adobe 6.0 or later should report the following fingerprint information:

MD5 Fingerprint: 41 1E 00 9F 79 4D 02 EF E6 95 65 57 A4 71 4F 9F
SHA-1 Fingerprint: 44 51 9E 22 66 59 1A D3 A1 F9 0B EE BD 01 90 80 BE 61 A4 A8

Report Revision History

- v1.0 Initial Release
- v1.1 Updated NFSoRDMA result to “Not Supported” and vendor address

Configuration Files

Description	Attachment
Scientific Linux 6.5 Configuration File	
OFED 3.12 Configuration File	

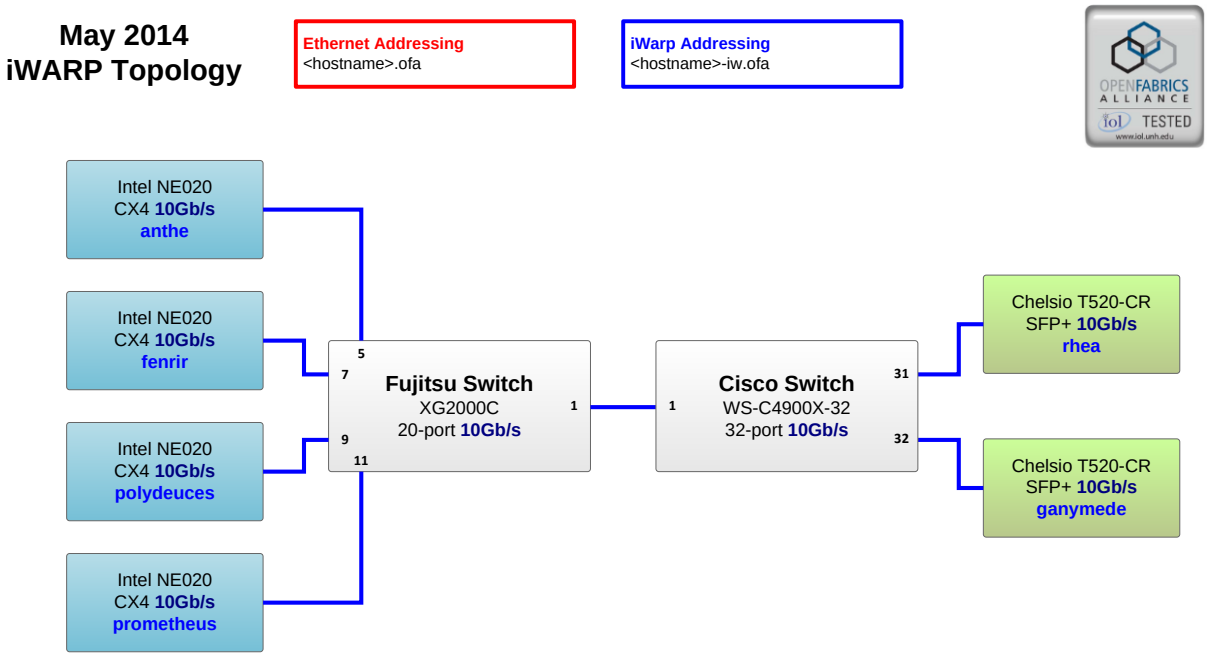
Result Key

The following table contains possible results and their meanings:

Result:	Description:
PASS	The Device Under Test (DUT) was observed to exhibit conformant behavior.
PASS with Comments	The DUT was observed to exhibit conformant behavior however an additional explanation of the situation is included.
FAIL	The DUT was observed to exhibit non-conformant behavior.
Qualified PASS	The DUT was observed to exhibit conformant behavior, with the exception of fault(s) or defect(s) which were previously known.
Warning	The DUT was observed to exhibit behavior that is not recommended.
Informative	Results are for informative purposes only and are not judged on a pass or fail basis.
Refer to Comments	From the observations, a valid pass or fail could not be determined. An additional explanation of the situation is included.
Not Supported	The DUT does not support the technology required to perform this test.
Not Available	Due to testing station limitations or time limitations, the tests could not be performed.
Borderline	The observed values of the specific parameters are valid at one extreme and invalid at the other.
Not Tested	Not tested due to the time constraints of the test period.

DUT and Test Setup Information

The IW fabric configuration utilized for all testing is shown below.



DUT Details			
Manufacturer:	Intel	Firmware Revision:	3.23
Model:	NE020	Hardware Revision:	N/A
Speed:	10Gb/s	Located in Host:	anthe, fenrir, polydeuces, prometheus
Additional Comments / Notes:			

Mandatory Tests – IW Device Test Results:

12.1: Ethernet Link Initialization

Test Result	PASS
Result Discussion:	
All devices were shown to link and pass traffic to all other devices in a back-to-back configuration under nominal (unstressed) conditions.	

Link Partner	Chelsio T520-CR	Intel NE020
RNIC: Chelsio T520-CR	N/A	PASS
RNIC: Intel NE020	PASS	N/A

13.4: TI uDAPL

Test Result	PASS
Discussion:	
All devices were shown to communicate correctly using the Direct Access Programming Library, by use of the Linux dapltest tool.	

13.5: TI RDMA Basic Interoperability

Test Result	PASS
Discussion:	
All devices were shown to correctly exchange core RDMA operations across a simple network path under nominal (unstressed) conditions. Each HCA acted as both a client and a server for all tests.	

13.6: TI RDMA Stress

	Switch Load	Switch Fan In
Test Result	PASS	PASS
Discussion:		
All switches were seen to properly handle a large load as indicated by the successful completion of control communications between two RNICs while other RNICs in the fabric were used to generate traffic in order to put a high load on the switch.		

13.7: TI MPI – Open MPI

Test Result	PASS
Discussion:	
Complete heterogeneity; 1 process per system as described in the cluster topology.	

Beta Tests – IW Device Test Results

13.1: TI iSER

Test Result	Not Available
Result Discussion:	
There are currently no iSER targets available in the cluster, therefore this test was unable to be performed.	

13.2: TI NFS over RDMA

Test Result	Not Supported
Result Discussion:	
The DUT does not currently support mounting and exporting of NFS shares over RDMA. Due to lack of support, this test was unable to be performed.	