OFA IWG meeting – 8/27/2013

Attendees

First	Last	Company	07/16/13	07/30/13	08/13/13	08/27/13
Tom	Reu	Chelsio		X		
Martin	Schlining	DataDirect Networks	X		X	X
Jeff	Kopko	Emulex	X		X	X
Pradeep	Satyanarayana	IBM	X	X	X	
Harry	Cropper	Intel	X		X	X
Mitko	Haralanov	Intel	X		X	
Jess	Robel	Intel	X	X	X	X
Yevgeny	Petrilin	Mellanox				
Rupert	Dance	Software Forge	X	X		X
James	English	UNH-IOL	X	X	X	X
Nate	Landolt	UNH-IOL	X	X	X	X
Glenn	Martin	UNH-IOL	X	X	X	
Edward	Mossman	UNH-IOL		X	X	X
Bob	Noseworthy	UNH-IOL	X		X	X
Nate	Rubin	UNH-IOL	X	X	X	X

2013-2014 Events

Interop and Plugfest Events

- **October 2013**
  - IBTA PF24   10/07 ➔10/18/2013
  - OFA Interop Debug Event   10/14 ➔ 10/18/2013
- **April 2014**
  - IBTA PF25   03/31 ➔ 04/11/2014
  - OFA Interop Debug Event   04/07 ➔ 04/11/2014

OFA Training

- January 13➔16 2014

Report on OFA Training Events held the week of 8/20/2013

1) **Rupert:** good overall attendance especially in the programming class. We had very high quality programmers and scientists attend. One was an astrophysicist and another was an original contributor to the IBTA Volume 1 Spec**.**

2) **Edward**: interesting and diverse – conversation was very good. Learning and exchanging.

3) **Nate Rubin**: We experimented with a cluster mapping tool which was written in perl and uses ibdiagnet – generates a graph which can be converted to an image.

May Interop GA Event

- The May Logo List was published and is available on the UNH-IOL website:
  - www.iol.unh/edu.ofilglist

OFA EWG Status
- OFED 3.5-1
    - [OFED 3.5-1 RC1](#)
    - OFED 3.5-1 GA – in testing now and scheduled to be released in early September
- OFED 3.5-2 – August 8/5/2013
    - Support for SLES 11 SP3, plus updated ibacm and uDAPL
    - [OFED 3.5-2 Daily Build](#) – updated on 8/27/2013
- OFED 3.11 or 3.12
    - RC in time for the October 2013 Interop Debug Event.
    - GA sometime in November

Review of the Interoperability Test Plan for October Interop Debug Event
- [OFA-IWG Interoperability Test Plan-v1.49-v2](#) - Review updated mandatory tests
- Discuss RSockets and develop a test suite
- Review NFSoRDMA suggested updates from UNH-IOL

IB Mandatory test suites
Marty says that they are seeing a resurgence in iSER and wants to know if can we bring back tests like iSER that have been deprecated

Rupert explained that the Test Plan is done in Adobe FrameMaker which has Chapters in a Book and all these Chapters have been archived and can be restored at any time.

iWARP Mandatory test suites
1) The group asked if we have we got more switches for testing iWARP?
2) **Bob**
    a) Still working on it but has not got switches dedicated.
    b) Fujitsu is what we have for 10 GB connectivity.
    c) Ethernet test switching outside of RoCE is not really needed.
    d) When we go to 40 gigabit we will need additional switches – we should ping Chelsio and Intel and try to get some support.
3) Rupert: we discussed NFS over RDMA for iWARP but Intel does not currently support it on the NE020 and they are reluctant to invest a lot of time and effort developing support for this. They would rather focus on the next generation of products and not invest new tech on older hardware.

RoCE Mandatory test suites
1) **Jeff**: They want to support both iSER and RSockets. He feels we should use rstream as the basis for our new test suite.
1) **Nate Rubin**: he has made progress. He originally tried to the SDP test template for RSockets but this did not work well. FTP support is difficult because it calls fork which is not well supported and sometimes calls chroot. So he is working on rcopy, riostream and rstream.
2) **Sean**: main target is MPI performance. So use RSockets with MPI.
3) **Jeff**: will go back and look at it internally. He will check in EVT.
4) **Rupert**: let's begin simple. Perhaps we can do something similar to RDMA Interop and then later RDMA Stress. So for example RSockets basic and then RSockets stress using MPI.
5) **AR**: create test plan for next meeting.

TI NFSoRDMA – review by Nate Rubin

1) The IB test procedure was not reflecting what they have been doing. The edits are basic and add clauses to remove mount points if they exist and then cleanly mount them for the test. Makes it easier to follow along with the instructions.

2) Do these changes apply to RoCE as well as IB? Jeff will review.
   a) **AR**: Glenn needs to test these on RoCE

TI iSER

AR: Are there changes needed for iSER. Jeff will check internally.

RoCE over distance

1) Does IOL support Internet 2 40/100 Gigabit support
2) **Edward**: Dr Russell has some access and we may be able to explore.
   a) Testing a cluster in Wyoming and long distance between labs
   b) Grid FTP project as well. This is FTP over RDMA.
3) Jeff – he is excited
4) **AR**: Edward needs to follow up with Dr Russell.

Opens

1) What is target for the next logo List which will be based on the October 2013 Interop Debug event?
2) **Rupert** feels that the earliest will be end of Q4 and more likely in January of 2014 because of the holidays.

Action Requests (ARs)
Emulex – Jeff
1) Review the changes to NFSoRDMA and see how they apply to RoCE
2) Are there changes needed for the iSER test plan so it will support RoCE

Software Forge - Rupert Dance
8/27/2013
1) Contact IBM for 40 GB switch
2) Jeff has contacted their vendor and they will supply a 40 GB switch – done 8/30/2013

7/30/2013
1) The group needs to make a determination about what version of OFED to use for testing in October.
   a) OFED 3.5-2 – the group decided that we should focus on this version – 8/27/2013
   b) OFED 3.5-11- this is a possibility but it is not certain when the first RC will be available.
2) We need to discuss what's new and what other features need to be tested. For example what to do with RoCE and what about higher speed RoCE and IB.

2/26/2013
1) OpenFabrics Interoperability Logo Program Changes

Older
1) Update Logo Program to include OFA Policy regarding OFILG Membership and granting of the Logo
2) Check with EWG and XWG about the distribution of OFED Binaries
3) Create Logo with version or change Logo Guidelines – see 4/3/2012 minutes

UNH-IOL
8/27/2013
1) **Edward:** follow up with Glenn on SLES 11
2) **Edward**: follow up with Dr Russell regarding RoCE over long distance
3) **Nate Rubin**: create an RSockets test plan for review at the next meeting IWG meeting on 9/10/2013.
4) **Glenn** needs to test the NFS over RDMA changes on RoCE

7/30/2013
1) Develop RSockets tests for IB and RoCE
2) Execute the full uDAPL test Suite for RoCE and make sure there are no issues