OFA IWG meeting – 8/14/2012

Attendees

First	Last	Company	07/03/12	07/17/12	07/31/12	08/14/12
Tom	Reu	Chelsio	X	X	X	X
Martin	Schlining	DataDirect Networks	X			
Michael	Both	GE Intelligent Platforms		X	X	
David	Tetley	GE Intelligent Platforms			X	X
Pradeep	Satyanarayana	IBM				X
Harry	Cropper	Intel	X	X	X	X
Mitko	Haralanov	Intel	X	X	X	X
Tatyana	Nikolova	Intel				
Jess	Robel	Intel	X	X	X	X
Jim	Ryan	Intel	X			
Idan	Kligvasser	Mellanox		X		X
Guy	Ergas	Mellanox			X	X
Slava	Pekelis	Mellanox	X			
Rupert	Dance	Software Forge	X	X	X	X
Glenn	Martin	UNH-IOL	X	X	X	X
Edward	Mossman	UNH-IOL	X	X	X	X
Bob	Noseworthy	UNH-IOL	X	X	X	X
Nate	Rubin	UNH-IOL	X	X	X	X
Bill	Weber	Unisys		X	X	

2012 Events

- IBTA PF 22   10/15 ➔ 10/26/2012
- OFA Interop Debug Event   10/22 ➔ 10/26/2012

OFA EWG Status

1) OFED 3.5 RC1 is available
    a) http://www.openfabrics.org/downloads/OFED/ofed-3.5/OFED-3.5-rc1.tgz
2) OFED-3.5-rc1 Main Changes from OFED 3.2-rc1
    a) Based on linux-3.5 kernel
    b) Updated packages:
        i) ibacm-1.0.7
        ii) librdmacm-1.0.16
        iii) dapl-2.0.36
        iv) libibumad-1.3.8
        v) infiniband-diags-1.6.1
        vi) opensm-3.3.15
    c) Removed
        i) libsdp, sdpnetstat
    d) Linux Operating Systems:
        i) RedHat EL6.2   2.6.32-220.el6
        ii) RedHat EL6.3   2.6.32-279.el6
        iii) SLES11 SP2   3.0.13-0.27-default
        iv) kernel.org   3.5   *
3) MPI to be tested with OFED 3.5
    a) MVAPICH2 1.8
    b) Open MPI version 1.6.1
    c) Intel MPI: the released version is 4.0.3

- OFED 3.5 needs to have a technology-preview branch

OFA Interop GA Event Status Updates - Edward
1) Arbitration resolution status
   a) All completed
2) Link for Logo List has been published.
   a) The Link is private and has been sent to the individual vendors so that they can review the documents. Please tell us of any corrections that may be required.
   b) We would like to make the links live on Thursday by the end of the day.
3) Approve
   a) Chelsio – Tom
   b) DDN - Marty
   c) Intel IB – Jess
   d) Intel –iWARP - Harry
   e) Mellanox – Guy
   f) NetApp - Abdel
4) Master List for Distro testing
   a) This still needs some review and Bob, Edward and Rupert will meet offline to discuss.

OFA EWG Status
1) OFED 3.5 RC1 is available
2) Harry is testing and has an issue and waiting for RC2
3) Tom – they are testing but have not found any bugs yet
4) Mitko – they are testing but working on other issues. 3.5 has lower priority and delayed
5) Guy – testing has started. RC2 is not known

OFA User Day
1) The first OFA User Day was very successful with 40+ attendees.
2) We have established an email reflector that can be joined here: users@lists.openfabrics.org
3) Tom Elken from Intel did a very good presentation on PSM and this will be posted on the OFA website soon.
4) Jerry Stevens of IBM did a presentation of "Sockets over RoCE"
5) There were many other presentation, and utilities given to the attendees.
6) System Admin
7) Next User Day in Europe – Sept 24-25 at IBM Zurich
8) See User Day Blog for more details

Dave Tetley - GE
1) They implemented a DCB enabled switch but couldn't use because of cabling – they use CX4 and the switch uses QSFP. Therefore they can't use the Mellanox switch.
2) Not just cabling issues – it is a protocol issues because each wire goes at a higher rate.
3) The 10 GbE switch is capable of supporting DCB and they are trying to get it enabled.
4) The customers are going to want 10 GbE to work.
5) A few more stages to go before they know what the RoCE issue is.

October 2012 Interoperability Test Plan Updates
1) See first draft of test plan for October 2012 Interop debug Event
2) iWARP Connectivity – deprecated
3) This has been deprecated because it was based on an old Java Test Suite. This has now been replicated by RDMA Interop and Stress using the OFA Training Code developed by Dr Russell from UNH-IOL.
4) Bob – The problem with iWARP Connectivity is that the PULP Interface shim has not been updated or maintained. So we are now focusing on Dr Russell's solution
5) Intel MPI – we cannot make this mandatory because the OFA IWG charter stipulates that all tests must be open source.
6) Harry will discuss NFS over RDMA
    a) Should work better with a higher kernel level
    b) There is some problem with integration.

RoCE – not for October
1) Mellanox wants to focus on FDR and ConnectIB
2) Other players
    a) Emulex
3) Bob Noseworthy
    a) Good target for April
    b) Need to get DCB involved
    c) Need fabric other than Spanning Tree. Here are some options.
        i) SPB - IEEE
        ii) Trill
        iii) MLAG – Extreme
        iv) Fabric Path - Cisco
        v) QFabric
    d) OFA should add diagnostics and management for these fabrics.
4) Dave Tetley wants to know from Mellanox will they support long term. They are the sole real supplier
    a) Guy – in the long term they want to support and test RoCE
    b) Rupert – try to escalate.

Windows
1) Wen Hao – when will Server 2012 support really be available? What should be our target
    a) Server 2008 SP2
    b) Server 2012
2) Edward heard from Wen Hao and said he could get pre-release in late September or early October 2012.
3) **AR**: Rupert follow up with Stan Smith

Action Requests (ARs)
OFA IWG - New test suite development
1) RoCE test suite.
2) Windows
   a) Need to develop test suites for Server 8
   b) Include more tests for WinOFED

UNH-IOL
7/17/2012
1) Bob Noseworthy: provide Michael and OFA IWG a list of DCB vendors who support RoCE

8/14/2012
1) Update website page with invitation for October Interop event – done 8/20/2012

5/1/2012
1) Make a separate webpage page to show how Distros have been installed. Include a sanitized kick start file and the update logs.

Rupert Dance
7/31/2012
1) Update Interop Test plan for the Mandatory Tests – done 8/14/2012 and 8/20/2012

Older
1) Update Logo Program document 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
4) Incorporate ICR into Logo Program

Guy
7/31/2012
- Review with Mellanox management and see if they are able to support RoCE testing for October 2012.
   o Response from Mellanox on 8/14/2012: At this time point we have the feeling that it will be very hard to perform RoCE testing without interfering with FDR program that we have in focus for the upcoming event.