OFA EWG Meeting – 12/22/2014

Attendees

First	Last	Company	11/10/14	11/24/14	12/08/14	12/22/14
Eddie	Wai	Broadcom	X	X	X	
Steve	Wise	Chelsio	X		X	X
Pradeep	Kankipati	Emulex	X	X	X	X
Pradeep	Satyanarayana	IBM	X	X	X	
Arlin	Davis	Intel		X		
Tom	Elken	Intel	X	X	X	X
Tatyana	Nikolova	Intel	X		X	X
Robert	Woodruff	Intel			X	
Vladimir	Sokolovsky	Mellanox	X	X	X	X
Jeff	Becker	NASA	X			
Rupert	Dance	Software Forge	X	X	X	X
John	Jolly	SUSE		X		

OFED 3.12-1 status

- **OFED 3.12-1-RC4 -** Released 12/04/2014
    - https://www.openfabrics.org/downloads/OFED/ofed-3.12-1/OFED-3.12-1-rc4.tgz
- **OFED 3.12-1-**GA
    - Release notes – see attached
    - Scheduled release after resolution of Bug 2515
- **OED 3.18 –** latest daily build 12/18/2014
    - https://www.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20141218-0354.tgz
    - Supported OSs
        - RHEL 7.0 – supported for all packages
        - SLES 12 - supported for all packages
    - RHEL 6.5 and 6.6 – backport status
        - ib_core, ib_ipoib and mlx4/5 – completed
        - Still need backports for libcxgb3, libcxgb3, libocrdma, qib and srp
        - To install, run:
            - # ./install.pl --all --without-cxgb3 --without-cxgb4 --without-ipath_inf --without-qib --without-iser --without-srp --without-ocrdma --without-be2net --without-cxgb3i --without-cxgb4i --without-rds
    - Plans for additional OSs
        - SLES 11 SP3
        - RHEL 7.1
- **OFED 3.12-1 User Package status**
    - https://ofa.causewaynow.com/wg/EWG/documentRevision/download/393
- **OFED Bug List**
    - https://ofa.causewaynow.com/wg/EWG/documentRevision/download/401
- **OFED 3.12-1 Bug Status**
    - Bug 2489 – NFSoRDMA – need to test using OFED 3.18
    - Bug 2515 - Link fails between Mellanox ConnectX3 HCA and Intel products
- **OFED 3.18 Bug Status**
    - Bug 2492 – Perfest - enhancement
    - Bug 2502 – RDS – under consideration at Oracle
    - Bug 2507 – Kernel panic NFSRDMA – need to test using OFED 3.18
    - Bug 2510 - compat-rdma build fails during install.pl – RHEL 6.5 is not supported yet
    - Bug 2514 – NFSRDMA - svcrdma not present in OFED-3.18 daily build
    - Other issues - IBM Install issues for mlx_ib

- **Review release notes**
  - **See** OFED_release_notes.txt
- **OFA IWG Interop testing status**
  - Waiting for OFED 3.12-1 GA

Next Meeting: **January 05, 2015**

Start of Meeting
OFED 3.18 Status as of 12/17
Report by Vlad
1) I added backport patches for ib_core, ib_ipoib and mlx4/5 to support RHEL6.5/6.
2) The latest daily build: https://www.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20141217-0022.tgz
3) To install, run:
   a) # ./install.pl --all --without-cxgb3 --without-cxgb4 --without-ipath_inf --without-qib --without-iser --without-srp --without-ocrdma --without-be2net --without-cxgb3i --without-cxgb4i --without-rds
4) Please start working on other backports.

Chelsio
1) Steve is out until the week of the January 5th

Emulex
1) Pradeep – they have completed the work on ocrdma for SLES12 and RHEL 7.0
2) RHEL 6.5 and 6.6 backports by end of first week in January

Intel – Tom Elken
1) 7.0 updates will come before 6.5
2) It will be a few weeks into the New Year.
3) Core qib for 7.0 sooner than everything else.

OFED Bug Status
Bug 2515
1) UNH-IOL and Software Forge have been experiencing link issues between Mellanox ConnectX 3 and Intel hardware. The problem has been noted with OFED 3.12-1 RC4 using RHEL 7.0 based Distros. The problem does not seem to occur with SL 6.5 for example.
2) **Vlad**
   a) The only change in status for OFED 3.12-1 RC4 is the OS.
   b) We should wait on GA. He will test on the OFA cluster at UNH-IOL.
   c) If he makes a fix then will we go with daily build and RC5.

Bug 2516
1) This is a problem with OFED 3.18 on IBM PPC64 systems
2) **Vlad** needs to get access to PPC64. Probably ml4_en and mlx_core. He feels that the problem is that during boot openibd tries to load ofed drives and fails because it has already been loaded as part of the kernel.
3) As part of init.d the following happens:

a) mlx4_core has been added and comes up before openibd tries to load. Because mlx4_core is already loaded and openibd fails.
b) Same issues can happen with 3.12 and 3.18
c) **Workaround**: Unload mlx4_core and then use openibd to restart.
d) **AR**: Create bug report.

4) Vlad – summary from his email
a) The issue is that the in-box mlx4_core kernel module is included in the initramfs image and being loaded from there before openibd start occurs.
b) So, as a workaround try to unload mlx4_core and then try to load it again. You can do this by "/etc/init.d/openibd restart".

Review of the OFED 3.12-1 Release notes – are the follow issues still valid?

5) IPoIB: brctl utilities do not work on IPoIB interfaces. The reason for that is that these utilities support devices of type Ethernet only.
   a) Note on RHEL 7
6) In case uninstall is failing, check the error log and remove the remaining RPMs manually using 'rpm -e <rpms list>'.
7) On SLES11.x, set allow_unsupported_modules parameter to 1 in file: /etc/modprobe.d/unsupported-modules. Without this the modules will not load.
   a) **AR**: Contact John Jolly and verify that this is still an issue
8) RDS is supported only on kernel.org 3.5 and not on any Distro OS.
   a) Still valid
9) Newer SLES or RHEL patch kernels that are updates to the original kernel that is included in the original SLES or RHEL distributions may not work with OFED-3.12-1. The list of kernels that are supported are listed in section 1.2.
   a) If OFED is already installed and you patch kernel, then you will need to reinstall OFED.
   b) Vlad: we may add a new feature in 3.18 so re-install is no longer needed.
10) There are a few known issues with NFSoRDMA that are documented in bugs 2489 and 2507. We believe the issues have been resolved in kernel 3.18 but the backports have not been applied to OFED 3.12-1.

ARs
Chelsio – Steve Wise
9/15/2014
1) Send patch for Bug 2492 upstream to the perftest maintainer and ask them to check out and accept the patch – in process
Rupert
12/8/2014
1) Update Release notes for OFED 3.12-1 GA – done 12/22/2014

UNH-IOL
12/22/2014
1) Create bug report for the mlx4_core issue – done 12/22/2014
1) Test NFSoRDMA using OFED 3.18 to see if NFSoRDMA bugs have been resolved.