OFA EWG Meeting – 3/2/2015

Attendees

First	Last	Company	01/19/15	02/02/15	02/16/15	03/02/15
Eddie	Wai	Broadcom	X	X	X	X
Steve	Wise	Chelsio	X	X		X
Pradeep	Kankipati	Emulex		X	X	X
Devesh	Sharma	Emulex		X		
Pradeep	Satyanarayana	IBM				X
Tom	Elken	Intel		X		X
Tatyana	Nikolova	Intel	X	X		X
Jim	Ryan	Intel		X		X
Robert	Woodruff	Intel	X	X		X
Vladimir	Sokolovsky	Mellanox	X		X	X
Jeff	Becker	NASA		X		X
Rupert	Dance	Software Forge	X	X	X	X

Meeting Minutes

- 02/16/2015: https://ofa.causewaynow.com/wg/EWG/document/302

OFED 3.18 status

- **OFED 3.18 –** latest daily build 02/12//2015
  - https://www.openfabrics.org/downloads/OFED/ofed-3.18-daily/OFED-3.18-20150212-0344.tgz
  - Supported OSs
    - RHEL 7.0 – supported for all packages
    - RHEL 6.5 and 6.6
    - SLES 12 - supported for all packages
    - SLES 11 SP3
  - Backports needed for RHEL 6.x
    - qib
  - Plans for additional OSs
    - RHEL 7.1
  - Inclusion of libfabric package – optional or not?
- **OFED User Package Status**
  - https://ofa.causewaynow.com/wg/EWG/documentRevision/download/431
- **OFED Bug List**
  - https://ofa.causewaynow.com/wg/EWG/documentRevision/download/432
- **OFED 3.12-1 Bug Status**
  - Bug 2489 – NFSoRDMA – need to test using OFED 3.18
    - Jeff - status
  - Bug 2520 - System crash under iSCSI heavy load in Xen/Dom0.
    - Please remind Sagi Grimberg
- **OFED 3.18 Bug Status - review**
  - Bug 2492 - perftest tools enhancement
    - Change to WONTFIX??
  - Bug 2507 – Kernel Panic while parallel mount/unmount test.
    - Sent Bugzilla comment to Devesh and Jeff asking them to verify the status
  - Bug 2519 - Modernize compat-rdma spec file – in process
    - Vlad waiting for additional updates
- **OFED 3.18**
  - Time for OFED 3.18 RC1
    - First Daily build was October 28th 2014

- Vendor support for all OSes
- qib updates can be included in RC2
  - o Status of libfabric package?
- **RoCE v2**
  - o Working to get this including in Linux 4.0
  - o 4.0-rc1 is out. Can we start working on an OFED daily build?
- **Open items**

OFED 3.18 Review of OFED 3.18 and vendor status
1) Supported OSs
   i) RHEL 7.0 – supported for all packages
   ii) RHEL 6.5 and 6.6
   iii) SLES 12 - supported for all packages
   iv) SLES 11 SP3

Chelsio
1) He needs to make one change for Chelsio iSCSI initiators which will not be supported in OFED
   a) This was completed on 3/2/2015

Emulex
1) SLES 11 SP3 is still not supported but will complete this week.

IBM
1) Pradeep is still concerned that the NFSRDMA issues have not been fully resolved. We discussed this later in the meeting with Jeff Becker.

Intel Xeon Phi - Woody
1) Xeon Phi patch set for Mellanox is done.
2) Tested on everything except RHEL 7.1

Intel IB Tom – True-Scale
1) No update since last Thursday
2) They are OK with the EWG releasing RC1 and they will get the updates into RC2

Intel iWARP - Tatyana
1) Has been testing but needs to test status of SLES 12 and SLES 11 SP3

Mellanox status - Vlad
1) Vlad is good with releasing RC1
2) He will get the Xeon Phi patch integrated.
3) OFiWG libfabric inclusion – he will add it this week.
4) He is OK trying to include 7.1 but would suggest we wait until RC2.

NFSRDMA – Jeff
1) He is doing a fix for SLES 11 SP3 and will be done soon – this will be end of week.
2) He has not done 6.6 but has 6.5 – he will try for RC1 but will make sure it is done for RC2 for sure.

Final decision regarding OFED 3.18 RC1 - Woody
1) Woody is ok to move forward with RC1. Tom is OK waiting for RC2 for True-Scale support and Woody says there is already a lot of stuff in there. Many teams wait for RC to do validation so it is important to release.
2) RHEL 7.1 is close to GA
3) The EWG voted by acclamation to move OFED 3.18 to RC1

<mark>NFSRDMA Issues</mark> – Jeff Becker
Bug Status
1) Bug 2489 should be closed because upstream patches has been included
2) Bug 2507 should be closed because upstream patches has been included
3) **Jeff's** testing facilities are very limited. He asked the submitter (Devesh to test it)

Rupert noted that UNH-IOL is having difficulty with the NFSRDMA Connectathon test suite on the IB Cluster. This problem is noted in the following message on the linux-nfs reflector.

http://www.spinics.net/lists/linux-nfs/msg18945.html

Connectathon Workaround: Jeff uses a workaround to avoid this problem: he does not run it as as a complete test suite but rather he runs it manually. There are four groups of tests:
3) basic   - basic file system operations tests
4) general - general file system tests
5) special - tests that poke certain common problem areas
6) lock   - tests that exercise network locking
7) Het sets the environment variable and the mount point and then changes into each directory and then runs test manually. This avoids system timing issues and will allow us to validate if NFSRDMA or system.

<mark>Next OFED - OFED 4.x</mark>
Rupert noted that Linus has decided to move the numbering from 3.20 to 4.0. So the new kernel will be 4.0 and not 3.20. As far as we know, all updates that have been included in 3.20 will be in 4.0
Woody:
1) What are the new features?
   a) **Rupert** says that support for RoCE v2 and UDP is one of the things that many vendors are anxious to have available.
2) What kernel will support ConnectX4 –
   a) **Vlad** hopes that support will be included in 4.0
3) **Woody** reminds us that it is a lot of effort and time consuming to produce a new OFED release and we should target a kernel that has critical features that we want.
4) We decided to wait until next meeting or possible end of month to make a decision on 4.0 versus 4.1
5) **Vlad**: we can do a daily before end of month if we decide to target 4.0
6) **Pradeep - Emulex**: Engineers are exchanging patches with Mellanox. There are more bug fixes but they are close to finalizing the patches and push upstream.

OFA developers Conference – Jim Ryan

1) https://www.openfabrics.org/index.php/press-room/2015-international-developer-workshop
2) Woody wants to know if there is a new template
   a) Jim will follow up on this.
3) Matt Leininger (LLNL) is coming to present
4) Tom Talpey from Microsoft

ARs

Chelsio – Steve Wise

3/2/2015

1) Steve needs to make one change for Chelsio iSCSI initiators which will not be supported in OFED
   a) This was completed on 3/2/2015

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

Emulex

3/2/2015

1) SLES 11 SP3 is still not supported but will complete this week.
2) Devesh: please test NFSRDMA using the latest OFED 3.18 build and see if Bugs 2489 and 2507 have been resolved

Intel -IB

1/19/2015

1) **QIB**: Need OFED 3.18 backports to support RHEL 6.5 and 6.6 as well as for SLES 11 SP3

Intel iWARP – Tatyana

3/2/2015

1) Has been testing but needs to test status of SLES 12 and SLES 11 SP3

Mellanox - Vlad

3/2/2015

1) Include the Xeon Phi update into OFED 3.18 – done 3/3/2015
2) Include libfabric into OFED 3.18 and have it build by default.

NFSRDMA – Jeff

3/2/2015

1) He is doing a fix for SLES 11 SP3 and will be done soon – this will be end of this week.
2) He has not done 6.6 but has 6.5 – he will try for RC1 but will make sure it is done for RC2 for sure.

SFI - Rupert

2/16/2015

1) When should we start working on OFED 3.20? – 3/2/2015 we decided to wait for 30 days to see if core features we want are in the 4.0 kernel or the 4.1 kernel.

2) Contact Jeff Becker about Bug 2507 – done on 3/1/2015
3) Close bug 2502 – done 2/16/2015

UNH-IOL
12/22/2014
1) Test NFSoRDMA using OFED 3.18 to see if NFSoRDMA bugs have been resolved.
   a) Bugs have been resolved as of 2/5/2015 – see bug 2518