OFA EWG Meeting – 8/3/2015

Attendees

First	Last	Company	06/22/15	07/06/15	07/20/15	08/03/15
Pradeep	Kankipati	Avago	X	X	X	X
Eddie	Wai	Broadcom		X		
Steve	Wise	Chelsio		X	X	X
Dwip	Banerjee	IBM				X
David	Dai	IBM				X
Arlin	Davis	Intel		X		
Tom	Elken	Intel			X	X
Mike	Marciniszyn	Intel	X	X		
Tatyana	Nikolova	Intel	X	X	X	X
Jim	Ryan	Intel	X		X	X
Robert	Woodruff	Intel	X		X	X
Vladimir	Sokolovsky	Mellanox	X	X	X	X
Jeff	Becker	NASA	X		X	
Rupert	Dance	Software Forge	X	X	X	X
Keith	Hoodlet	UNH-IOL		X		
Stefan	Oesterreich	UNH-IOL			X	X
Chuck	Valenza	UNH-IOL			X	
Dave	Wyman	UNH-IOL			X	X

Agenda

Meeting Minutes 7/20/2015:

- https://www.openfabrics.org/downloads/WorkGroups/ewg/EWG_Minutes/2015-07-20-EWG-Meeting-Minutes.pdf

OFED 3.18-1 status
- **OFED 3.18 GA – released 7/14/2015**
    - https://www.openfabrics.org/downloads/OFED/ofed-3.18/OFED-3.18.tgz
- **OFED User Package Status as of 8/3/2015**
    - https://www.openfabrics.org/downloads/WorkGroups/ewg/OFED_User_Package_Status/OFED-User-Package-Status-2015-08-03.pdf
    - libfabrics-1.1.0 rc3
    - ibacm-1.1.0
- **OFED 3.18-1 Bug Status as of 8/3/2015**
    - https://www.openfabrics.org/downloads/WorkGroups/ewg/OFED_Bugs/OFED-3.xx-Bug-Status-2015-08-03.pdf
- **OFED 3.18-1 open issues**
    - 2492 - perftest tools enhancement – opened 6/17/2014
    - 2544 – infinipath-psm won't install with libfabric
    - 2545 - ipath compilation fails on SLES11 SP4 and RHEL6.7
    - 2547 – libibscif and Xeon-phi issues
    - 2551 – libfabric compile issue on ppc64
    - 2553 - Unable to run UD traffic using qperf
    - 2555 - ib_send_bw –run_infinitely fails to terminate on the server after client disconnects
    - 2559 - unexpected CM event 8 error running iwarp traffic after the restart of iwpmd service
    - 2560 - OFED_tips.txt section 4 needs updating
    - 2561 - IPoIB failure after arp cache flush
    - 2562 - ib_write_bw doesn't support events

- **OFED 3.18-1 -** Plans for the next build
    - RHEL 6.7
    - SLES SP4
    - Bug fixes
    - Other?

Start of the meeting
OFED User Package Status as of 8/3/2015 – new releases
1) libfabrics-1.1.0 rc3
2) ibacm-1.1.0 – **Sean Hefty**: The ibacm was re-architected to support providers. This allows someone to replace the built-in SA cache that ibacm provides with their own. For example, this will be used to support Intel OPA, and can also support the IB SSA work.

OFED 3.18-1 Status
Woody
1) We need to start testing bugs related to libfabric and Xeon Phi.
2) We also need to test the latest OFED with the updated libfabric on the ppc64. Sean wants to know that this has been resolved before he releases libfabric 1.1.0 GA.
    a) Dave from UNH-IOL has two ppc64 one RoCE and one IB. He will get to this this afternoon.
3) We need to start testing OFED 3.18 on all the Distros and make sure there are no issues
4) There will be a new DPAL package from Arlin for OFED 3.18-1 but he is not sure what changes were there.

Vlad –status with daily build from 8/3/2015
1) RHEL 6.7 – all passed
2) SLES 11 SP4 – some small issue with libfabric and fabtest. He will file a bug and document the spec file updates that are needed.
3) He does not think there are any other backports needed.
4) Woody wants to try the latest build with Xeon Phi

Bug review
- 2492 - perftest tools enhancement – opened 6/17/2014
    - Steve: there is no iWARP tool for testing multiple connections like there is for IB and he would like to rectify this but it has a low priority.
    - Steve will ask Chelsio and close for now and reopen as needed.
- 2544 – infinipath-psm won't install with libfabric
    - **Woody**: this was an issue between libfabric and PSM. He believes the libfabric 1.1.0 rc3 may resolve this.
- 2545 - ipath compilation fails on SLES11 SP4 and RHEL6.7
    - **Rupert**: ipath is getting eliminated in kernel and so do we need to fix this or should we consider removing the user space package as well.
    - **Vlad**: will check and see if ipath is still enabled in OFED. Vlad confirmed that it is already disabled in OFED 3.18-1
    - **Woody**: if it is deprecated in Kernel then we should deprecate in user space.
    - **Steve**: it has actually been moved to staging tree for 4.3 for now and so it will disappear from upstream linux in version 4.6. It has been moved from drivers InfiniBand HW ➔ staging
    - **Steve**: just did this for Amasso and since OFED does not look in staging, it will not be available in 4.3. We need to add a note in add note in 3.18-1 that it will be deprecated.

- o **Tom**: ipath was for the hyper transport IB Adapters from Pathscale and then supported by QLogic. QIB does not have support for hyper transport.
  - o **Woody and Tom**: talk it over with the team. If nobody cares then we can say with will not work on SLES11 SP4 and RHEL6.7. SO the decision is not to build ipath on those two distros.
  - o **Woody**: update the bug and says it will not be supported
- 2547 – libibscif and Xeon-phi issues
  - o **Woody**: invalid transport – close this bug as a known issue and will not be fixed. We would have to have a Xeon Phi version of libibverbs.
- 2551 – libfabric compile issue on ppc64
  - o Dave Wyman will test this
- 2553 - Unable to run UD traffic using qperf
  - o Assigned to Dean – **Tom** will follow up. Somebody other than Dean will resolve this. No schedule yet.
- 2555 - ib_send_bw –run_infinitely fails to terminate on the server after client disconnects
  - o Vlad will review with Gil
- 2559 - unexpected CM event 8 error seen on running iwarp traffic after the restart of iwpmd service
  - o **Tatyana:** she has talked to Steve but no news. She has hardware but not proprietary application
  - o **Steve:** will assign it to himself and follow up
- 2560 - OFED_tips.txt section 4 needs updating
  - o **Vlad**: he will do it
- 2561 - IPoIB failure after arp cache flush
  - o Dave and Stephan are in standby – OFILG
  - o **Vlad**: talk to Eli
- 2562 - ib_write_bw doesn't support events
  - o Vlad will work with Gil

Open items
1) Tom: what is release date for OFED 3.18-1
   a) **Woody** not a lot of open issues so he is good with it. Not a lot of changes.
   b) **Rupert**: at our meeting two weeks ago we said 1-2 months. We agreed to allow 4 more weeks

These were our notes from the last meeting:
OFED 3.18-1 Plans
Vlad
1) Nothing new as far as we know. Maybe mstflint and perfest
2) He has already added support for RHEL 6.7 and SLES 11 SP4 – needs to be verified. In 3.18 GA
3) He will verify and make daily build as needed.

Woody-Rupert
1) There may be a new dapl coming – most Xeon Phi and scalability.
2) Our goal is to release OFED 3.18-1 in one to two months
3) Industry may discover bugs with OFED 3.18 so we must give them time to test.

Next OFED Build after OFED 3.18-1
Woody – we need to decide if we can use 4.2 or if we should wait for 4.3 so we get all the new stuff. Here are some of the things he would like to include.
1) Omni Path – probably not ready until 4.3
2) RoCE-v2
3) NFSRDMA updates
4) FMR

ARs
Chelsio – Steve Wise
9/15/2014
1) Send patch for Bug 2492 upstream to the perftest maintainer – in process

8/3/2015
1) Reassign bug 2559 and work with QA to get it resolved.

Emulex

Intel –IB
7/6/2015
1) Arlin will follow up on MPSS and libibscif release notes – open 7/20/2015
2) Mike - review and update qib, ipath and others release notes that are part of the Intel packages - open 7/20/2015
3) 2553 - Unable to run UD traffic using qperf - Tom to follow up

Intel iWARP – Tatyana

Mellanox - Vlad
8/3/2015
1) Resolve bug 2560 and update OFED Tips
2) Talk to Eli and others about Bug 2561 – IPoIB
3) Work with Gill to resolve perftest bugs
   a) 2555
   b) 2562

NFSRDMA – Jeff

SFI – Rupert
8/4/2015
1) Ask Sean Hefty what has changed in ibacm – done 8/3/2015 and response included in minutes.
2) We need to add a note in add note in 3.18-1 that ipath will be deprecated in OFED 4.3.
3) Update bug 2545 and say ipath will not be supported
4) Update bug 2547 as a known issue and will not be fixed.

UNH-IOL
7/20/2015
1) Validate that OFED 3.18 will build on ppc64 – done by David Dai from IBM on 8/3/2015 using OFED-3.18-1-20150803-2323.tgz