**OFI WG Data Storage / Data Access Subteam Weekly telecom – 04/21/2015**

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**Agenda**

* roll call, agenda bashing
* Completions
* Continue review of key objects and methods – Stan Smith

**Completions**

- Mostly bottomed out on this.

- Conclusion: We will need two types of remote completions:

 - a remote completion indicating that data is available to the remote target

 - a remote completion indicating the above, and that the data is within the persistent domain

**KOFI completion processing and data transfers – Stan Smith. See Stan’s most recent version of the slides on the OFA website**

Data transfer completion queuing

- DGRAM endpoints have a unique structure, fi\_readfrom

- fi\_cq\_sread – not clear if this returns EAGAIN, or zero

- Callback semantics – a callback can be registered for a CQ event.

kOFI connected msg reception

- fi\_recvv – kvecs are used

- both fi\_recv and fi\_recvv are limited to kernel mode addressing. This limits us to kernel mode, but what about user mode? We would probably need something beyond these two functions to support user mode. We do already have a user mode recv. Stan’s proposal could be re-architected to support user mode, but for now we seem comfortable with limiting this to kernel mode. It is called kOFI, after all.

- fi\_sendmsg – you have to drag the fi\_msg structure around.

kOFI connected msg transmission

- fi\_send, fi\_sendv, fi\_senddata, fi\_sendmsg, fi\_inject

- fi\_inject implies that the buffer is safe to use immediately after the call returns. There is no completion associated with this.

kOFI RDMA transfer

- fi\_write, fi\_read, fi\_writev, fi\_readv, fi\_writemsg, fi\_readmsg, fi\_inject\_write, fi\_writedata

kOFI Reliable Datagram data transfer

- currently in OFI, connected EP and DGRAM EP Rx and Tx all have the same format. Why?

- In OFI, fi\_sendto was merged into fi\_send; fi\_recvfrom was merged into fi\_recv to reduce the number of APIs

- Question: should we follow OFI’s lead here, or re-instate the unique fi\_sendto and fi\_recvfrom?

Next: Server side, remote atomics, connection shutdown

**Agenda for next meeting -** Complete discussion on KOFI data transfers (Stan)

**Next regular telecom**

Next meeting: Tuesday, 4/28/15.

8am-9am Pacific daylight time

**NOTE:** We have switched over to using Webex (courtesy of Cisco). The URL for joining meetings is:

<https://cisco.webex.com/cisco/j.php?J=200935598&PW=67935ad6df07030d5f05044a5b0f>