**OFI Data Storage / Data Access Subteam Weekly telecom – 01/10/2017**

**DS/DA Shared Documents:** <http://downloads.openfabrics.org/WorkGroups/ofiwg/>

**Agenda**

* roll call, agenda bashing
* Future of DS/DA

**Discussion – reviewed recent slide on network options for kfabric. See the slide deck http://downloads.openfabrics.org/WorkGroups/ofiwg/dsda\_kfabric\_architecture/kfabric\_nentwork\_options\_2017\_0109.pptx**

* Basic thrust of the deck is that kfabric is more-or-less in limbo awaiting a native kfabric network that can take full advantage of the streamlining of the kfabric API.
* In the meantime, we are exploring opportunities for continuing the development of kfabric, while remaining aware that it is a tough road to push kfabric into the kernel without demonstrating a compelling advantage. A performance advantage is usually the most compelling story.
* Discussed NVMe as a potential ‘killer app’, but again, the existing NVMe/F solution running over verbs is probably good enough for any QP-based network (IB, RoCE, iWARP).
* Strong arguments were made for the advantages to be harvested by kfabric in the areas of:
  + Reduced CPU utilization
  + Improvements in CPU affinity. This is becoming increasingly important as the number of cores/processors increases dramatically. This is believed to be crucial especially for large scale machines.
* Discussed Lustre, and the possibility of backporting LNET to use kfabric, allowing a Lustre implementation to simply adopt a kfabric provider directly. Given the complexity of the existing LNET/LND architecture, there is some small hope of harvesting some performance improvement simply by streamling LNET and replacing an LND with a kfabric provider, even while using the existing kfabric verbs provider. Doug Oucharek volunteered to take a look at the opportunities for doing this, with an eye toward suggesting improvements to the existing kfabric API definition.

**Webex Recording: (No recording was made of this meeting. Sorry)**

**Next regular telecom:**

Next meeting: Tuesday, 01/24/17

8am-9am Pacific daylight time

**Logistics:**

See the OFA’s central calendar (<https://openfabrics.org/index.php/ofa-calendar.html>) for current meeting logistics.