**Agenda**

* Agenda bashing
* OFA Workshop – who is attending?
* Rename the group?
* API documentation
* rsockets – see slides from Sean Hefty 2014-03-04-ofwg-sockets.pptx

**OFWG Download Site:** [www.openfabrics.org](http://www.openfabrics.org) 🡪OFED/OFA Resources 🡪 OpenFramework WG

**OFA Workshop attendees**

Paul Grun, Bernard Metzler, Christoph Lameter, Bob Russell, Jim Ryan, Patrick McArthur, Bill Weber, Frank Berry, (Parks Field – not attending), Sean Hefty, Sayantan Sur, Liran Liss

There is benefit to face-to-face meetings, may produce more discussion, DOE/DesignForward experience shows that it’s important. Essentially like a BoF.

AR – Paul: setup at least one and possibly two meetings on Monday/Tuesday evening.

**Renaming the OFWG**

Should be applicable to where this may grow over time. “Process Direct” has been suggested. Should be tied somehow to “Open” (i.e. openfabrics). “OpenFabricProtocols”. At this point, we’ll take this back to the mail list and continue the discussion next week. “ibverbs” was too closely related to IB and has caused trouble.

**API Documentation**

Sean has started to try to document the APIs, attempting to incorporate feedback received to date. These are captured as a series of manpages; planning to publish these as HTML files soon in order to collect feedback – are they the right set, do we have the right inputs/outputs and so on. There are still a series of open issues yet to be resolved, hopefully this will lead to a broader discussion about the dozen or so key issues that need to be resolved. For example, do we require a provider to support all APIs, how does an application know what APIs are available to it? There is also an on-going spreadsheet identifying a list of issues.

HTML versions of the emerging MAN pages can be found here: <https://www.openfabrics.org/downloads/OFIWG/API/>

**Rsockets – see slide deck 2014-03-04-ofwg-sockets.pptx**

Data streaming model will use RDMA CM.

Stronger connection between fd and transport resources

CM and CQ use the same fd

Fork support – an ongoing problem.

RDMA wrt/immed – can we eliminate the key and address exchange? Received-defined key, sender defines offset. Generate an event based on write (len and location).

Q: why not just use messaging? A: for streaming, don’t know how large a receive to post. The notion of posting receive buffers creates inefficient use of memory; RDMA allows us to pack data more efficiently at the receive side.

Q: Why not an RDMA followed by a SEND? A: Because it requires two operations. RDMA w/ immed is a better solution, but best would be a notification on the write, but without having to post a receive beforehand.

If we had slab receives, then it would be possible to replace RDMA write with a SEND and still get the efficiency of use of the buffers on the receive side.

Flow control - count of completed sends to manage flow control. An alternative would be to use TCP semantics, i.e. IPoIB, but only at the expense of performance. Consider a user mode TCP stack.

Plan to complete this discussion next week.

**Agenda items for Montere**y

User mode TCP. (Liran)

Approaches for APIs for storage (Liran)

**Next meeting**

Group re-naming

Complete rsockets requirements

Bin list:

* on-going discussion of renaming the group.
* Steps forward beyond requirements gathering.

Logistics

Tuesday, 3/11/14

9am-10am Pacific time

<<https://meet.intel.com/sean.hefty/D14C7J10>>  
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Join by Phone  
1-888-875-9370  
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Conference ID: 746347966