**Agenda**

* F-2-F – can we choose a rough date and begin assembling an agenda
* Next steps – getting to completed code and man pages
* Complete architecture review, requirements list discussion (Sean)

**OFIWG Download Site:** [www.openfabrics.org](http://www.openfabrics.org) 🡪OFED/OFA Resources 🡪 OpenFabrics Interfaces WG

**F-2-F?**

Sean is working on a Survey Monkey poll to inquire about locations and dates, which will be sent out right after this meeting.

Rupert has provided some info about meeting at the UNH-IOL.

**AR Susan Coulter** – Look at locations in Los Alamos

**AR Ryan Grant** – Look at locations at Sandia (Albuquerque).

Potential Agenda:

* Define the set of requirements for a successful first release
  + which requirements can we hit, which will we miss?
  + Possible votes
* Review specific code and/or man pages
* Identify gaps in code and/or man pages
* Work on ideas that have been raised during these meetings including work on verbs extensions?
  + Most of the concepts so far map nicely onto verbs extensions
  + **AR Liran Liss** – work on agenda for verbs extensions discussions for the meeting in two weeks
* Systematically go over the proposed APIs one-by-one. Parameters, sizes, functions, behaviors, etc.
* Walk through how an application (examples: SHMEM, PGAS, MPI) would actually use libfabrics.
  + Here’s how it works with verbs, here’s how it would work using libfabrics.
  + **AR Frank Berry** – volunteer to pull together at least a simple example, even if not quality code.

**Next Steps**

The goal now is to move from the architecture phase into the implementation phase. “Implementation” is defined to be either completed MAN pages, or written Code (either API code or provider code).

* Do we have the right cast of characters to do so?
* The MPI community has been asked to start looking at the implementation at a lower level of detail, and has agreed to begin doing so.
* PGAS/SHMEM – Howard had presented the requirements for this, there is some possibility of engaging the community.

**AR Howard** – reach out to PGAS/OpenSHMEM community. Susan is also involved in a one-sided PGAS implementation.

* There is some sense that there is enough existing code in the existing GIT tree, probably enough to begin doing a SHMEM implementation for starters, even though there are some gaps.
* Do we need to pull in other hardware vendors?
  + Howard was experimenting with Aries, can we continue with these types of experiments?
  + Emulex, Broadcom, Chelsio, Cisco, Intel (Truescale, iWARP), MLNX, IBM?
  + **AR – Paul Grun** – Reach out to Emulex and Broadcom
  + **AR – Sean Hefty** – Reach out to Intel, Chelsio
* Q: How confident are we that the IB verbs provider is ready?
* A: Intel could take a look at this.

**Continue review of the current architecture – Sean Hefty, fi-arch.pptx version4**

Completion ordering - No application seemed to require ordering for completions, but this may have been an oversight. Need a waay to allow the app to specify if it needs ordered or unordered completions.

Q: What about partial completions?

A: sounds like not every operation needs a completion event, but it seems that when a completion is received that it would be nice that all previous operations have completed, even if there is no ordering involved.

For connected endpoints, it seems straightforward; for unconnected services, it may be a more significant issue.

Message ordering – if there are two operations to the same memory location, it should be possible to guarantee the ordering between messages. At the moment, it isn’t possible to guarantee first byte/last byte guarantees within a given message, since that is a function of the hardware architecture, but it may be possible to discover if a given platform supports ordering guarantees.

Data ordering – the placement of data for each message relative to data from other messages. There is no concept that the bytes within a message are written to memory in order.

Without message ordering, data ordering is irrelevant.

**Agenda for next meeting**

* Agenda for F-2-F
* Complete architecture review – thread safety, formal proposal for how to expose ordering.

**Next regular telecom**

Next meeting: Tuesday, 7/08/14

9am-10am Pacific daylight time

**NOTE: We have shifted over to using WebEx. Please let us know if you don’t have the new meeting invitation.**