**Agenda**

* F-2-F – can we choose a rough date and begin assembling an agenda
* 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 Agenda**

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

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

**AR Pavil Shamis** – Possible Oakridge location – would require a list of attendees one month prior to the meeting.

Potential Agenda:

* Define the set of requirements for a successful first release
  + which requirements can we hit, which will we miss?
  + May require voting
* Walk through simple example(s) of 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.
  + Not planned to be a detail description e.g. of MVAPICH or Open MPI rather a simple ‘stage setting’ exercise.
  + **AR Frank Berry** – pull together at least a simple example, even if not quality code.
* Systematically go thru the APIs one-by-one. Parameters, sizes, functions, behaviors, etc.
* Review specific code and/or man pages, identify gaps
* 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

Survey monkey results to date:

1. Top dates, 9/9-10, 8/19-20
2. US West Coast – if the West Coast, could be Intel (Hillsboro or Santa Clara) or Cisco.
3. Lunch and snacks should be provided

**AR ALL**: fill out the Survey Monkey <https://www.surveymonkey.com/s/ZSF228X>

Next week try to close on a location and date.

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

Thread Safety

* Considering breaking it up into control and data operations. Assume that all control operations would be thread safe, but leave it to the applications to coordinate on data transfers, potentially avoiding locks at the data transfer level.
* Goal is to identify which objects are and are not shared between threads, allowing locks to be avoided.
* Showed a series of serialization mechanisms with progressively lower levels of thread safety. i.e. where is locking actually required.

Are we adding too much flexibility and inadvertently ending up burdening the application? A: This should be driven by application usage. OpenShmem – likes to have the flexibility. MPI – the ability to decide when are needed is a good thing. What about the possibility of not having locks at all? Also, what about locking between domains (not just within a domain).

Ideally, an application should be able to select if it wants ordering or not? How does an application select? A: Not yet defined, to date this is a concept. There would have to be a mechanism for an application to request the service it prefers, and a mechanism for a provider to report what it supports. No code example of this exists yet.

Next agenda: Start looking at the APIs in much more detail.

Begin with initial control interface.

**AR Sean** – send out a link so people can begin doing some homework.

Jeff had previously agreed to pull in the MPI folks, but it may not be for a few weeks due to travel.

Howard is also on the hook for PGAS. What would need to be added? We’re sort of in a chicken and egg situation. Where are the gaps?

* Definition of APIs is still open, and no implementation behind many of those. E.g., Looking at atomics, they are fairly well defined, but no implementation behind them.
* Generic Provider – need a generic provider (sockets is a likely candidate) to be used to drive completion of the API definition and implementation. A nice upside is that it could be run on any conventional system, doesn’t require an special hardware.
* Current verbs provider- very difficult to implement certain functions (e.g. reliable datagram) on top of verbs.

**Agenda for next meeting**

* Agenda for F-2-F
* Discuss the Generic Provider (a sockets provider)
* Begin detailed review of APIs, beginning with the initial control interfaces.

**Next regular telecom**

Next meeting: Tuesday, 7/15/14

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.**