**OFI WG Bi-Weekly telecom – 01/12/2016**

**Agenda:**

* Roll call, agenda bashing
* OFA Workshop Call for Sessions
* F-2-F in Monterey
* Support for other OS’ – see Sean’s email “ofiwg item: supporting other OS’s” (<http://lists.openfabrics.org/pipermail/ofiwg/2016-January/000996.html>)
* Completion optimizations – see Sean’s email “completion optimizations” (<http://lists.openfabrics.org/pipermail/ofiwg/2016-January/000997.html>)
* SC16 call for workshops

**OFA Workshop Call for Sessions**

* A call for workshop sessions has been published. Currently thinking in terms of four sessions devoted to OFI (OFI project status/update, OFI WG specific session probably focused on the next major release, two DS/DA sessions).
* OFI WG folks are encouraged to look carefully at the Call for Sessions, and think about both OFI-specific sessions and more broadly potential sessions from their own individual work areas.
* Sean and Paul to work on an abstract

**F-2-F in Monterey?**

* Should we meet in Monterey?

**SC16 Call for Workshops**

* Proposals due in February
* Paul to publish a link to the call for workshops to the mailing list
* Discuss at our Jan 26th meeting

**Support for other OS’**

* Questions have arisen in the past about support for other OS’, Solaris, Windows…
* There is a specific request for windows, the Solaris request may be coming from MPI
  + Not clear if the Solaris request is for x86, or Power, or…?
* Provider ports to another platform would be a function of the vendor, except for sockets.
  + Not clear if e.g. the sockets provider would be a combined Linux/xxx provider, or two separate providers
* Tool chain issues – do you force the use of Cygwin, or maintain parallel tool trees? Mainly an issue for Windows, Solaris should be straightforward.
* Think of networkdirect as a provider underneath libfabric.
* May need some changes to libfabric for e.g. wait objects, loader sequence, etc.
* An alternative would be to create a separate fork.
* Sean to discuss with Intel MPI term to better understand their perspective and plans for long term support. If we pursue it, there needs to be somebody willing to own it.
  + Same questions for Solaris – would this be for x86? X86-64? Sparc?

**Completion Optimizations – Sean’s slide fi-v2.pptx**

* Four different completion topics
* Relaxing support for completion flags.
  + Currently, a lot of information is given (is it RMA? Is it Read, or Write). For some providers, particularly on error, it is difficult to provide this level of detail.
  + Proposal: FI\_NOTIFY\_FLAGS\_ONLY mode bit. Only the following flags are used: FI\_REMOTE\_READ | FI\_RMA, FI\_REMOTE\_WRITE | FI\_RMA, FI\_REMOTE\_CQ\_DATA, FI\_MUTLI\_RCV…
  + This bits would be sourced by the provider to indicate to the consumer that it can provide only a certain amount of completion information.
* Report Optimal CQ Attributes
  + For example, what is the optimal size for the CQ? No way today for an application to know what kind of CQ to use, no way to know what kind of structures the provider can deliver optimally.
  + Proposal: provide a linkage into the fi\_getinfo structure
  + Add fi\_cq\_attr to fi\_info (or fi\_tx/rx\_attr
  + This would require a change to the API which would require us to use a library versioning mechanism.
* Restrict EP and CQ Bindings (also about optimizing CQs)
  + Currently no way to restrict which Endpoints use which CQs.
  + Proposal: Add capability and mode bit fields into fi\_cq\_attr, saying that this CQ will only support a particular set of capabilities.
* Do we start moving on these types of changes, or wait to see if other issues appear that need to be addressed? In other words, the frequency of changes to the API. The issue really boils down to how pressing these issues are to the users of the API.
* Sean to try to work down into a bit more detail. Put on next agenda to check-in, but will probably take a little longer to get somewhere. The provider developers should also try to think through some of the implications.

**Next Agenda:**

* Revisit the possibility of an SC16 workshop
* Continue discussion of support for other OS’
* Check in on Completion Optimizations thinking

**Webex link:** <https://cisco.webex.com/ciscosales/j.php?MTID=m9389b0513c9ae643d57e2381e254dcf5>  
Webex password: ofi

**OFIWG Download Site:** [www.openfabrics.org/downloads/OFIWG](http://www.openfabrics.org/downloads/OFIWG)

**Github:** <https://github.com/ofiwg/libfabric>

**OFI Software Download Site:** [www.openfabrics.org/downloads/OFI](http://www.openfabrics.org/downloads/OFIWG)

**Link to WebEx Recording** - [**Play recording**](https://cisco.webex.com/ciscosales/lsr.php?RCID=216e26ca1fe14b4fb65c02931c9cc0f2)

**Next regular telecon**

Next meeting: Tuesday, 1/26/16

9am-10am Pacific daylight time