**OFI WG Weekly telecom – 10/14/2014**

**Agenda**

* Send/receive credit discussion

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

On-going credits discussion:

In the view of some, ‘credits’ reflects an end-to-end perspective. But here we’re talking solely about the resources made available to an application by a provider. Nevertheless, we will continue to use the expression ‘credits’ (since nobody has a better word for it).

Q: Do we agree that we want to have some sort of ‘credit’ mechanism, or is it sufficient to rely solely on EAGAIN?

A: Yes, we want an affirmative mechanism, although naturally EAGAIN is supported as the backstop.

The basic requirement is a mechanism that lets an application determine if the posting of an operation (transmit or receive) will succeed.

One opinion: there is a preference for a mechanism that supports some sort of scalar compare, nothing more complex.

An alternative (there are several) is for the application to call a function to calculate the availability of credits from the provider.

Also haven’t bottomed out on whether a ‘credit’ indicates the byte space available, or if it reflects the number of outstanding operations that can be supported.

Shouldn’t care how big the queue is, just want to know if the next operation or two can be pushed out.

End-to-end flow control: Sean had volunteered to create a table summarizing options for end-to-end credits.

The age-old question: how do we get an implementation in place that is sufficient to validate applications running over libfabric, and how do we get application developers to try coding to it?

Need to understand the current state of the verbs provider and the sockets provider in terms of an inventory of what it would take to bring it online.

Next week: take a detailed look at the current state of the sockets provider. At the same time, we can look at prioritizing the endpoint types.

**Agenda for next meeting**

Detailed review of the current state of the sockets provider and for extra credit the verbs provider.

**Next regular telecom**

Next meeting: Tuesday, 10/21/14

9am-10am Pacific daylight time