**Agenda**

* Agenda bashing
* Inputs from SNIA NVM Programming Models group

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

**Guest Attendees**

Doug Voigt (HP) Paul Von Behren (Intel) – co-chairs of SNIA’s NVM Programming models technical working group

**SNIA Discussion – Doug Voigt, Paul Von Behren – see uploaded slides “SNIA NVM Programming Model.pptx”**

* Persistent memory vision: fast like memory, persistent like storage.
* Q: block and file are mentioned, but what about object?
* A: yes, it has been mentioned, but deferred.
* Key concept: Sync operation ensures that data has reached a durable state
* Beyond version 1, three work items being investigated:
  + s/w hints
  + atomics – not addressed by current sync semantics
  + remote access
    - disaggregated memory – memory shared among e.g. server blades. Servers are tightly coupled physically, but not exhibiting SMP behavior. More cluster-style applications, thus appears more like a cluster than an SMP. Still within the latency limits of a NUMA system – can be accessed by loads and stores.
    - RDMA direct to NVM – shared “storage”, but somewhere above the NUMA latency range.
* RDMA challenge – we can do RDMA access to persistent memory today, but can we do more?
  + Key issue – Sync semantics. How can the initiator of the RDMA efficiently learn when data is persistent at the remote side? May require some mechanism for forcing a cache flush at the remote end.
* Linux foundation.org conference – March 24, 25, focused on Linux memory management.
* Possible next steps:
  + OFA workshop presentation (confirmed)
  + NVM programming TWG could benefit from insights into RDMA; how would you do it today? Beginning some sort of a consulting relationship. Any IP constraints? Probably not, if the TWG is viewing a presentation from a non SNIA member company. SNIA has weekly meetings at 4PM PST on Tuesdays. Next f-2-f is in Miami in March, but no particular reason to do this f-2-f.

**Next meeting**

Bin list:

* Complete MPI requirements discussion
* Consider re-naming the group to improve googleability?
* Steps forward beyond requirements gathering.

Logistics

Tuesday, 2/18/14

9am-10am Pacific time

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