OpenFabrics@H

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OFED

InfiniBand

OFED forms the core of HP's InfiniBand offerings

- -Nearly all in high-performance computing clusters
 - Both a messaging and file system interconnect
- Sprinkling in other places, e.g. FSI
- Driven by performance

iWARP

- -Limited experience to date
- -Watching 10 GbE hardware and stacks mature
- Ubiquitous 10GbE RDMA may change things



HP Software using OFED

HP MPI

-Tested with 1.3

- More details later from CQ Tang

HP SHMEM

-Run-time systems use OFED verbs layer over InfiniBand



Deploying OFED

- We deploy OFED on multiple existing kernels and distributions with hardware from multiple InfiniBand vendors
- We need
 - Stability
 - -Rapid evolution
 - -Support
- We want it to just work.



Our Current Approach

Our hardware vendors provide

- Hardware
- Software based on OFED
 - Often differentiated in some way
- Support
 - But not for all OFED components



Our Current Approach

- Not Linux distributions
 - -They move slowly
 - Some make structural changes to the OFED bits
 - Support problematic

Not kernel.org

- Stability
- Support problematic (again)



One Stack To Rule Them All?



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