

13th Annual OFA Workshop

	Monday	Tuesday	Wednesday	Thursday	Friday
	March 27	March 28	March 29	March 30	March 31
8:00 AM		Welcome and Opening	Objects over RDMA		Use Cases for Raw Ethernet Queue Pairs
8:30 AM		Challenges Faced Building an Enterprise Block Storage App on top of the OFED Stack	Lustre Network (LNET) Health	Designing MPI and PGAS Libraries for Exascale Systems: The MVAPICH2 Approach	Validating RoCEv2 for Production Deployment in the Cloud Datacenter
9:00 AM		Ceph RDMA Support	RDMA Subsystem Issues and the Core Linux Kernel	Building Efficient HPC Clouds with MVAPICH2 and RDMA-Hadoop over SR-IOV IB Clusters	Tera's Data Network: From Storage Cluster to Multi-purpose IB EDR Network
9:30 AM		Developer Experiences of the First Paravirtual RDMA Provider and Other RDMA Updates	Linux NFS/RDMA 2017 Roadmap	Advanced PGAS-centric Usage of the OpenFabrics Interface (OFI)	Deploying OFS Technology in the Wild: A Case Study
10:00 AM		BREAK	BREAK	BREAK	BREAK
10:30 AM		State of the Alliance	The Linux SoftRoCE Driver	Accelerating OFI libfabric Adoption through Compliance Testing	Remote Persistent Memory Access - Workload Scenarios and RDMA Semantics
11:00 AM		Asynchronous Peer-to-Peer Device Communication	The RDMA Kernel ABI Framework	Host-based InfiniBand Network Fabric Monitoring	NVM-aware RDMA-Based Communication and I/O Schemes for High-Perf Big Data Analytics
11:30 AM		HPC Meets Big Data: Accelerating Hadoop, Spark, and Memcached with HPC Technologies	Omni-Path HFI Virtual Network Interface Controller	Managing Individual Nodes in Large Fabrics	Experiences with NVMe over Fabrics
12:00 PM		LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	Closing Remarks & Townhall Results
12:30 PM					BOX LUNCH DISTRIBUTION
1:00 PM		Accelerating Apache Spark with RDMA	Advancing Open Fabrics Interfaces	Fabric Performance Management and Monitoring	
1:30 PM		Crail: A Hi-Perf I/O Architecture for the Apache Data Processing Ecosystem	rdma-core Community Collaboration	Omni-Path Fabric Topologies and Routing	
2:00 PM		Performance of a Task-Parallel PGAS Programming Model using OpenSH-MEM and UCX	IPoB Acceleration	Using Sandia's LDMS for IB Fabric Analyses, especially of LNET Router Behavior	
2:30 PM		Recent Topics in the IBTA, and a Look Ahead	Packet Processing Verbs for Ethernet and IPoB	BREAK	
3:00 PM		BREAK	BREAK	Ubiquitous RoCE	
3:30 PM		Extended Memory Windows	Annual General Meeting	On-demand Paging in Practice	
4:00 PM		InfiniBand Virtualization		User Verbs Extensions for Scaled Performance with Shared Memory	
4:30 PM		urdma: RDMA Verbs over DPDK	CCIX, Gen-Z, OpenCAPI: A Comparison	BREAK	
5:00 PM	Registration Opens 4:30-6:00PM	Omni-Path Status, Upstreaming and Ongoing Work	Gen-Z - An Overview and Use Cases	Town Hall	
5:30 PM		RDMA on ARM	BREAK		
6:00 PM		Exascale Computing Project - Driving a HUGE Change in a Changing World		Networking Event	
6:30 PM					
7:00 PM					
7:30 PM					NOTE: The workshop agenda and list of abstracts are tentative and subject to change.