**Call for Sessions**

Solving difficult network problems demands an ongoing collaboration between OpenFabrics Software (OFS) producers and consumers. (More words…)

This year’s workshop, while covering a broad range of topics, will feature a focus on three particularly prominent areas: a continuation of last year’s focus on the consumers of OpenFabrics Software, the inclusion of topics exploring the evolving relationship between the Alliance and the open source community, and persistent memory.

**Session Topics**

Proposals for sessions to be presented at the annual workshop may cover a variety of topics, such as:

Topics Related to the Open Source Community and its role in developing networking software

* New developments in the RDMA subsystem such as new drivers or repositories
* Topics related to user land code

Using RDMA to Access Persistent Memory, Non-Volatile Memory

* RDMA fabrics for Persistent Memory (new or existing fabrics such as IB, OPA, iWARP or others)
* APIs for accessing persistent memory over a fabric
* Programming models for applications relying on remote persistent memory

Network APIs and Software

* OpenFabrics Interfaces (libfabric, kfabric)
* Extending the Verbs API
* APIs for data storage, data access
* Open UCX

Accelerators, FPGAs, GPUs

* Direct access to accelerator memory space from the fabric
* Plumbing for accelerator devices inside the kernel
* Technology for direct attach and fabric attach of accelerators
* The programmer’s perspective; using fabric attached accelerators

Distributed Applications

* data analytics
* distributed and shared memory applications
* fabric-attached storage
* pub/sub applications

Communications Middleware and Programming Languages for Distributed Computing

* OpenSHMEM
* MPI
* UPC++
* GasNET
* Chapel

Deploying RDMA

* Building a system incorporating multiple RDMA technologies

Network Deployments

* cloud-based deployments
* RDMA in the commercial enterprise
* data analytics
* government and HPC
* virtualized data centers
* wide-area distributed computing or storage

Data Intensive Computing, Data Analytics, Cloud Computing

* storage connectivity using high-speed/low-latency fabrics
* virtualization of hosts, storage devices, networks, and network interfaces
* software defined storage, software defined networks
* convergence of traditional bare-metal/bare-wire and virtualized cloud and container architectures

Management, Monitoring & Configuration

* Adaptive routing, congestion control, fabric performance monitoring, IB IPoIB, partitioned networks, QoS, routing between disjoint fabrics, security, subnet configuration, topologies, message queuing technologies

Security for RDMA Networks

Networking Technology

* Atomics, Hardware Platforms (x86, ARM, SoCs, embedded), IB Architecture, iWARP, Multicast & collective operations, RoCE, Scalable fabrics (existing and emerging), User-level protocols over RDMA (NFS, RPC, etc.), Virtualization and virtualized container support, network function virtualization, software defined networking, software defined storage