

2013 OpenFabrics Alliance International Developer Workshop

The OpenFabrics International Developer Workshop held on April 21-24 offered a multi-day workshop with sessions related to the development and improvement of OpenFabrics Enterprise Distribution, an interoperable software stack for leading RDMA transports for Linux and for Windows. The workshop also included speaking and panel sessions on major technological developments within this industry.

The Workshop kicked off Sunday, April 21, with a keynote from Mark Seager, Chief Technology Officer for the High Performance Ecosystem at Intel. Presentations and panel sessions began the following morning covering topics such as, scalable architectures, enterprise data centers, storage, cloud, and Big Data.

The presentations from the workshop are available below.

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|--------|-------|------------------------|---------------------------------|
| Legend | OFA | Scalable Architectures | Enterprise |
| | Cloud | Big Data | Storage & Storage at a Distance |

Get all presentations in a Zip file: [All days](#); [Monday, April 22nd](#); [Tuesday, April 23rd](#); [Wednesday, April 24th](#)

You can find [videos of the presentations](#) on the [InsideHPC site](#).

| | Sunday, April 21 | Monday, April 22 | Tuesday, April 23 | Wednesday, April 24 |
|----------|------------------|---|---|--|
| 8:00 AM | | Introductions, Workshop Goals, Controversies Speaker: Jim Ryan, OFA Chair | Innovative Topologies Speakers: Harry Quackenboss, Infinetics Ratko Tomic, Infinetics | Software Defined Datacenter Speaker: Josh Simons, VMware |
| 8:30 AM | | (8:15AM) Updates from User Day Speaker: Susan Coulter, LANL | Extending Verbs API Speaker: Tzahi Oved, Mellanox | RDMA in Virtual Environments Speakers: Bhavesh Davda, VMware Aaron Blasius, VMware |
| 9:00 AM | | (8:45AM) Evolving OFS for the Modern World - A Challenge to Attendees Speaker: Paul Grun, Cray | Alternative Approaches to Sockets over RDMA Speakers: Sean Hefty, Intel Jerry Stevens, IBM | Windows File Sharing High Performance RDMA Considerations Speaker: Tom Talpey, Microsoft |
| 9:30 AM | | Scaling OFA: Beyond RDMA? Speaker: Bill Magro, Intel | On-Demand Paging for User Space Networking Speaker: Liran Liss, Mellanox | On Suitability of High-Performance Networking API for Storage Speaker: Bernard Metzler, IBM |
| 10:00 AM | | Break | Break | Break |
| 10:30 AM | | Scaling with PGAS Languages Panel Moderator: Paul Grun, Cray Panelists: Howard Pritchard, Cray ; Mirko Rahn, Fraunhofer Institute; DK Panda, OSU ; Rich Graham, Mellanox; Robert Woodruff, Intel | Network Direct Update Speaker: Fab Tillier, Microsoft | Linux SRP Initiator for Reducing Fail-over Time in a H.A. Setup Speaker: Bart Van Assche, Fusion-io |
| 11:00 AM | | | QCN w/Ethernet and RoCE Speaker: Liran Liss, Mellanox | SSD Higher Speed Devices Architectural Interconnect Impact Speaker: Johann George, SanDisk |
| 11:30 AM | | Update on Portals 4 Speaker: Brian Barrett, Sandia National Labs | NVM Express: Maturing Fast Speaker: David Akerson, Intel | Efficient interfaces to Take Advantage of SSDs. NVM Programming Architecture / Opportunities for Interconnect Speaker: Walt Hubis, Fusion-io |

| | Sunday, April 21 | Monday, April 22 | Tuesday, April 23 | Wednesday, April 24 |
|----------|------------------------------|---|--|---|
| 12:00 PM | | Clouds at a Distance Speaker: Tom Coughlin, Coughlin Associates | High performance RDMA based design for Big Data and Web 2.0 memcached Speaker: DK Panda, OSU | Technology Advisory Council Speakers: Tom Stachura, Intel Diego Crupnicoff, Mellanox |
| 12:30 PM | | Lunch | Lunch | Building a Directional Consensus Speakers: Jim Ryan, OFA Chair Paul Grun, Cray |
| 1:00 PM | | | | Lunch OpenFabrics Alliance Interoperability Program Speaker: Rupert Dance, Software Forge |
| 1:30 PM | | Improving MPI scaling Speaker: Rich Graham, Mellanox | Accelerating Big Data over RDMA Speaker: Sreev Doddabalapur, Mellanox | OFED Update Speakers: Tziporet Koren, Mellanox Robert Woodruff, Intel |
| 2:00 PM | | Challenges of Scale & MPI/PGAS APIs Speaker: Todd Rimmer, Intel | State of Ubuntu, OpenStack & OFED Testing and Development Speaker: Samantha Jian-Pielak, Canonical | System Administration Training Speaker: Rupert Dance, Software Forge |
| 2:30 PM | | OFS for the Intel Xeon Phi Speaker: Robert Woodruff, Intel | Cloud Computing for DOD Speaker: Virginia Ross, U.S. Air Force | Wrap-up, Feedback, Action Items Speaker: Jim Ryan, OFA Chair |
| 3:00 PM | | Break | Break | |
| 3:30 PM | | Scalable Subnet Administration Speaker: Sean Hefty, Intel | SSD-Assisted Designs for MPI Fault-tolerance and Accelerating Web 2.0 Speaker: DK Panda, OSU | |
| 4:00 PM | | InfiniBand Scalability for One-Sided Communication Speaker: Zarka Cvetanovic, HP | RDMA in Wide Area High Speed Area Networks Speaker: Linden Mercer, NRL | |
| 4:30 PM | | MVAPICH2 and Intel MPI Implementations for MIC Speakers: DK Panda, OSU Bill Magro, Intel | Update on Lustre, OpenSFS and FastForward InfiniBand Speaker: Doug Oucharek, Intel | |
| 5:00 PM | Registration / Badge Pick-Up | Completion Queue Handler Group for Scalable User Verb Applications Speakers: Guangyu Shi, Oracle Pallab Bhattacharya, Oracle | | |
| 5:30 PM | | Ethernet over InfiniBand (EoIB) Speaker: Ali Ayoub, Mellanox | | |
| 6:00 PM | | OFA Annual General Meeting Speaker: Jim Ryan, OFA Chair | | |
| 6:30 PM | | | | |
| 7:00 PM | | | | |

| | Sunday, April 21 | Monday, April 22 | Tuesday, April 23 | Wednesday, April 24 |
|---------|--|------------------|-------------------|---------------------|
| 7:30 PM | Keynote | | | |
| 8:00 PM | Criteria for a Scalable Architecture | | | |
| 8:30 PM | Speaker: Mark Seager, Intel | | | |
| 9:00 PM | Reception | | | |