

OpenSHMEM 2017: Fourth workshop on OpenSHMEM and Related Technologies.

(August 7-9th 2017, Annapolis, MD)

Significance and Impact: The OpenSHMEM Workshop is the premier venue for exhibiting and presenting Partitioned Global Address Space (PGAS) research, particularly as it relates to OpenSHMEM. Participants from academia, industry, and private and federal research organizations attended the workshop. The topics for the workshop included extensions to the OpenSHMEM API, implementation of the API for current and emerging architectures, tools to debug and profile OpenSHMEM programs, strategies for implementing OpenSHMEM features, and changes to the the OpenSHMEM specification to address the needs of programming extreme-scale systems, particularly heterogeneous extreme-scale systems. This year's focus was on big compute and big data convergence.

Sponsor/Facility: Oak Ridge National Laboratory, DoD

Team: Manjunath Gorentla Venkata (ORNL), Neena Imam (ORNL), and Swaroop Pophale (ORNL).

Overview:

OpenSHMEM 2017 is the fourth event in the OpenSHMEM and Related Technologies workshop series. The workshop was organized by Oak Ridge National Laboratory and held in Annapolis, Maryland, USA, and it was and sponsored by ORNL, DoD, Cray, NVIDIA, Mellanox, ARM, and HPE.

The keynote was delivered by William Carlson (IDA Center for Computing Sciences). His insightful talk titled “**Shared Memory HPC Programming: Past, Present, and Future?**” was very informative and well received. Technical talks, invited talks and vendor presentations were organized for the first two days of the workshop. The third day of the workshop was focused on developing the OpenSHMEM specification. Many proposals brought forth by the committee members were voted on and discussed.