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Los Alamos Open MPI Activities

Howard Pritchard



MPI Sessions

- Got MPI Sessions API into the MPI 4 standard!
- Continued work on the prototype
 - Added support for using the OFI MTL – important for DOE exascale platforms
 - Updated API to what was accepted into the standard
 - Bug fixes
 - Writing more verification tests
- Working with TUM on Time-X (EuroHPC) as a potential user of Sessions

Los Alamos – other current work

- Writing additional PMIx unit tests and developing associated light weight runtime – collaboration with Nvidia
- Continue supporting integration work with Argobots and Qthreads
- Serving as release manager for 4.0.x

Los Alamos – links

- MPI Sessions prototype based on Open MPI:
 - <https://github.com/hpc/ompi/hpc/sessions>
 - https://github.com/hppritchard/mipi_sessions_tests
 - <https://github.com/hppritchard/osu-microbenchmarks-sessions>
- PMIx unit tests and light weight runtime
 - https://github.com/openpmix/openpmix/tree/master/test/test_v2