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<td>Change issue links from Redmine to GitHub</td>
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<td>Create pool of CUDA Events</td>
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<td>Add support for variable-sized messages to TRAM</td>
<td>Venkatasubrahmanian Narayanan</td>
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<td>Use 64bit IDs for tracing</td>
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<td>Use 64bit ID for groups/nodegroups</td>
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<td>Use 64bit ID for singleton chares</td>
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<td>Don't force -lcudart just because cuda.h was found during configure</td>
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<td>Finish work on newLB branch and merge with master</td>
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<td>Revise agreement to cover github distribution and license to address all commercial use cases and GitHub Distribution</td>
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<td>Examine the converse header fields for all layers and remove/reduce fields wherever applicable</td>
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<td>Add +isomalloc_sync build-time options</td>
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<td>Ensure zero copy API transfers are included in CommLB</td>
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<td>Add a new target (potentially benchmarks) for Vesta autobuilds to avoid maximum execution time from exceeding</td>
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<td>Add &quot;--enable-tracing --enable-tracing-commthread&quot; to an autobuild target</td>
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<td>Distribute a Valgrind error suppression file that suppresses known RTS memory leaks</td>
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<td>ci files with extensive code blocks result in incorrect line numbering in syntax errors and in gdb</td>
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<td>examples/charm++/TRAM/randomAccessGroup crashes on mpi-win-x86_64-smp with debug options (-g -O0)</td>
<td>Raghavendra Kanakagiri</td>
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<td>tests/charm++/sdag/migration and tests/charm++/sdag/anytimeMigration fail on mpi-win-x86_64-smp with debug options (-g -O0)</td>
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<td>Ensure that 'End of Program' message is printed consistently for every charm program execution</td>
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<td>Make AtSync load balancing the default rather than periodic</td>
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<td>Reimplement CmiNumNodes et al using hwloc</td>
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<td>AMPI jacobi.iso crashes in migration on gni-crude-persistent-smp autopsy</td>
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<td>Custom array indices segfault in CkVec inside of LB framework</td>
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<td>Tracing/Projections support for visualizing the communication graph</td>
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<td>Use IP multicast for faster broadcast and multicast on netlrits</td>
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<td>Implement move semantics for object migration</td>
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<td>Implement zero copy translation for move semantics and rvalue refs</td>
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<td>Simplify custom reducer registration</td>
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<td>Support HostBuffer shared memory allocation of one buffer per physical host at same address on all hosts</td>
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<td>Megampi hangs on multicore-linux-x86_64 with +CmiSleepOnIdle</td>
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<td>Ensure PPCAtomicQueue has proper alignment/padding on ppc64le</td>
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<td>SMP/non-SMP agnostic job launching arguments</td>
<td>Evan Ramos</td>
<td>06/21/2018 04:02 PM</td>
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<td>1838</td>
<td>Bug</td>
<td>New</td>
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<td>Reevaluate LCommTable initialization</td>
<td>Juan Galvez</td>
<td>05/09/2018 10:33 AM</td>
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<td>1837</td>
<td>Bug</td>
<td>New</td>
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<td>ucontext thread issue on ARM 64 bit systems</td>
<td>Seonmyeong Bak</td>
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<td>1836</td>
<td>Cleanup</td>
<td>New</td>
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<td>Cleanup warnings in charmdebug-python</td>
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<td>1833</td>
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<td>Cleanup SDAG Closure refnum handling with enable_if</td>
<td>Eric Mikida</td>
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<td>1829</td>
<td>Feature</td>
<td>In Progress</td>
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<td>Enable low memory footprint migration with Isomalloc via RDMA</td>
<td>Sam White</td>
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<td>1826</td>
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<td>Add +showcpuaffinity option to the charm++ manual</td>
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<td>Make AMPl's within-process messaging visible to Projections</td>
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<td>Enable building charm with link time optimization</td>
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<td>1814</td>
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<td>Add CkLoop Split Execution</td>
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<td>1796</td>
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<td>Support for partitions on netlrits-linux-x86_64-tcp builds</td>
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<td>AMPI-OpenMP documentation &amp; example</td>
<td>Sam White</td>
<td>04/11/2019 05:04 PM</td>
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<td>1781</td>
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<td>1775</td>
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<td>chkpt test hangs for pami-linux-ppc64le-smp &amp; pamilrts-linux-ppc64le-smp build</td>
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<td>1774</td>
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<td>Thread migration fails on ppc64le builds</td>
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<td>1773</td>
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<td>Zerocopy examples fail on pami-linux-ppc64le-smp due to a low level assertion failure</td>
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<td>02/21/2018 02:03 PM</td>
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<td>Programs built on pami-linux-ppc64le-async-smp fail a low level assertion at runtime.</td>
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<td>AMPI implementation of Buffered sends</td>
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<td>Generate libmpi.{a,so} for AMPI configure scripts</td>
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<td>1762</td>
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<td>Resolve circular dependence in charmcc's linking of memory/thread libraries</td>
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<td>1761</td>
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<td>Update GPU Manager Tracing API</td>
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<td>cmiArgDebugFlag Used Before Initialization</td>
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<td>1740</td>
<td>Bug</td>
<td>New</td>
<td>Normal</td>
<td>Failure at LrtsInit with OFI build with gni provider on Edison</td>
<td>Nitin Bhat</td>
<td>05/09/2018 10:39 AM</td>
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<td>1738</td>
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<td>Failure at LrtsInit with OFI build with verbs provider on Golub</td>
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<td>Normal</td>
<td>tests/charm++/pingpong and examples/charm++/zerocopy/pingpong fail when run on 2 processes with an assertion failure on pamilrts-linux-x86_64</td>
<td>Nitin Bhat</td>
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<td>1736</td>
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<td>Normal</td>
<td>pami-linux-ppc64le-async-smp programs crash on Summitdev with an assertion failure</td>
<td>Nitin Bhat</td>
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<td>Mark the entire RTS noexcept</td>
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<td>Improve pup_stl testing</td>
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<td>04/29/2018 11:22 AM</td>
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<td>DDT support for getting the addresses of contiguous parts of non-contiguous datatypes</td>
<td>Sam White</td>
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<td>syncft tests: unclear failure</td>
<td>Juan Galvez</td>
<td>03/27/2018 06:07 PM</td>
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<td>1710</td>
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<td>New</td>
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<td>syncft tests: warning and crash on init_checkpoint</td>
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<td>03/27/2018 06:07 PM</td>
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<td>1708</td>
<td>Bug</td>
<td>Implemented</td>
<td>High</td>
<td>Charm++ programs hang with mpi-crayxc build on Edison when run on 2 hosts</td>
<td>Nitin Bhat</td>
<td>08/17/2018 05:34 PM</td>
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<td>1707</td>
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<td>Nocopy Entry method API ack handling crashes on pamilrts-bluegeneq-async-smp</td>
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<td>Overloaded reduction targets result in compilation error</td>
<td>Eric Mikida</td>
<td>04/13/2018 12:21 PM</td>
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<td>1697</td>
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<td>Distinguishing local object calls from entry method calls</td>
<td>Eric Mikida</td>
<td>09/27/2018 02:42 PM</td>
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<td>Allow &quot;type aliases&quot; for explicit instantiations of member function templates</td>
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<td>1693</td>
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<td>Print template parameters when missing explicit instantiation</td>
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<td>09/27/2018 02:43 PM</td>
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<td>1691</td>
<td>Feature</td>
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<td>GPU Handler PEs</td>
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<td>1689</td>
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<td>CMK_TIMER_USE_PPC64 inaccurate with variable clock speeds</td>
<td>Ronak Buch</td>
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<td>1686</td>
<td>Bug</td>
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<td>Use a namespace for Charm++ code</td>
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<td>1681</td>
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<td>Document Exception Handling in Charm++</td>
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<td>1677</td>
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<td>Normal</td>
<td>improved topology-aware partitioner</td>
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<td>10/30/2017 09:41 AM</td>
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<td>1676</td>
<td>Bug</td>
<td>New</td>
<td>Normal</td>
<td>Replicas slower than separate jobs on GNI systems</td>
<td>Ronak Buch</td>
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<td>1671</td>
<td>Bug</td>
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<td>Normal</td>
<td>Verbs memory pool may leak pinned memory when message is deleted on a PE different from the one to which it was delivered</td>
<td>Nitin Bhat</td>
<td>04/03/2019 10:22 AM</td>
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<td>1666</td>
<td>Feature</td>
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<td>Standalone OpenMP implementation based on Converse User-level threads</td>
<td>Seonmyeong Bak</td>
<td>01/12/2018 03:16 PM</td>
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<td>1640</td>
<td>Bug</td>
<td>In Progress</td>
<td>Normal</td>
<td>Segfault during migration for AMPI in SMP mode with &quot;-tracemode projections&quot;</td>
<td>Matthias Diener</td>
<td>01/17/2019 01:13 PM</td>
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<td>1636</td>
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<td>Update the machine layer template configuration in src/arch/template</td>
<td>Nitin Bhat</td>
<td>10/11/2017 03:21 PM</td>
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<td>1635</td>
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<td>Cleanup and Activate the Charm++ Topology Examples</td>
<td>Juan Galvez</td>
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<td>HDF5 issues in AMPI</td>
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<td>NodeGroup Broadcasts creates many copies of the message for point to point sends</td>
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<td>Valgrind shows invalid writes at GNI_SmsgSendWTag calls for charm programs built on gni-craxyc</td>
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<td>Error while compiling LogAnalyzer tool in BigNetSim</td>
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<td>Optimize AMPI RMA routines for shared memory</td>
<td>Sam White</td>
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<td>Support for using rdma to return data from a [sync] entry method</td>
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<td>10/31/2017 08:42 AM</td>
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<td>Support send on IDLE in TRAM</td>
<td>Eric Bohm</td>
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<td>OpenMP integration support for external library written in and compiled by OpenMP on Charm++</td>
<td>Seonmyeong Bak</td>
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<td>DDT support for direct copy from a noncontiguous type to another noncontiguous type</td>
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<td>AMPI bindings for C-Fortran interop are incomplete</td>
<td>Sam White</td>
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<td>Missing 'make test' for examples/charm++/state_space_searchengine/</td>
<td>Samarth Kulshreshtha</td>
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<td>CkArrayCreated callback should be part of CkArrayOptions</td>
<td>Evan Ramos</td>
<td>08/23/2018 12:06 PM</td>
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<td>Support Shrink/Expand in verbs</td>
<td>Jaemin Choi</td>
<td>07/11/2017 01:54 PM</td>
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<td>New</td>
<td>Normal</td>
<td>AMPI interface for mapping ranks to worker threads</td>
<td>Sam White</td>
<td>10/30/2017 11:32 PM</td>
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<td>CkIO file read support</td>
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<td>Normal</td>
<td>multcore-darwin-x86_64 megatest hangs when built with --enable-randomized-msgq --with-pro-type=int --enable-error-checking -debug</td>
<td>Kavitha Chandrasekar</td>
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<td>Hang in tests/charm++/chkpt when using -tracemode perfReport</td>
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<td>01/17/2019 01:14 PM</td>
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<td>Deprecate hapi_pool* in favor of hapi_host*</td>
<td>Michael Robson</td>
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<td>1500</td>
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<td>Entry Methods Always Take Ivalue References (feature/bug)</td>
<td>Eric Mikida</td>
<td>04/03/2019 03:38 PM</td>
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<td>Remove the need to declare entry method parameters as &quot;rdma&quot;</td>
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<td>SDAG methods are not properly inherited by chare subclasses</td>
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<td>CMA support for passing data between processes on the same node</td>
<td>Nitin Bhat</td>
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<td>Remove need for +LBCommOff</td>
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<td>Automatically set NVCC path in Makefile of example program</td>
<td>Jaemin Choi</td>
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<td>All Load Balancing Strategies should be CPU frequency (rate) aware</td>
<td>Juan Galvez</td>
<td>10/11/2017 03:21 PM</td>
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<td>Fix Make.depends for libraries</td>
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<td>verbs build hangs in tests/charm++/communication_overhead</td>
<td>Eric Bohm</td>
<td>01/17/2019 01:21 PM</td>
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<td>1471</td>
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<td>Parallel Prefix No Barrier Example in Charm Tutorial Hangs on MPI Layer</td>
<td>Matthias Diener</td>
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<td>1465</td>
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<td>AMPI support for MPI_Win_allocate_shared</td>
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<td>smp pes sending messages still block due to other send activity</td>
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<td>trace CcdCallFnAfter() causality</td>
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<td>Charmxi runs out of memory</td>
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<td>Support template entry methods in generated code from TRAM [aggregate] entry method attribute</td>
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<td>AMPI should check for truncated messages</td>
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<td>AMPI scatter(v) performance is poor</td>
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<td>Pass a future into or return one from [sync] entry methods, so that the caller isn't forced to block</td>
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<td>Poor error messages when forgetting to `extern module x' in ci files</td>
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<td>Cannot create variable sized messages with objects that have virtual methods</td>
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<td>Improve AMPI error handling</td>
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<td>Error in buddy assignment code for checkpointing</td>
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<td>AMPI compliance with MPI-3.1 standard</td>
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<td>Unify Data Collection in Charm++</td>
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<td>reject pemap/commap with duplicate or too few cpus</td>
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<td>Normal</td>
<td>Idle PEs compete with comm thread for node queue lock</td>
<td>Michael Robson</td>
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<td>mpi-coexist example hardcodes C++ compiler flags</td>
<td>Sam White</td>
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<td>1009</td>
<td>Bug</td>
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<td>Improve Parsing for SDAG Boolean Expressions</td>
<td>Eric Mikida</td>
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<td>1006</td>
<td>Bug</td>
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<td>Normal</td>
<td>charmxi: nested braces in serial blocks can lead to erroneous syntax errors</td>
<td>Eric Mikida</td>
<td>09/21/2016 12:35 PM</td>
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<td>1005</td>
<td>Bug</td>
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<td>Some Projections views broken for AMPI with user-registered functions</td>
<td>Ronak Buch</td>
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<td>1003</td>
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<td>&quot;-memory paranoid&quot; doesn't work with smp build</td>
<td>Eric Mikida</td>
<td>03/02/2016 05:00 PM</td>
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<td>1000</td>
<td>Bug</td>
<td>New</td>
<td>Normal</td>
<td>+setcpuaffinity places replicas on same host on same cores</td>
<td>Karthik Senthil</td>
<td>03/14/2018 02:19 PM</td>
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<td>980</td>
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<td>New</td>
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<td>Cleanup examples/charm++/cuda/hello</td>
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<td>03/29/2018 10:52 AM</td>
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<td>Normal</td>
<td>Compare the performance of Harshit's accel patch to GPU manager</td>
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<td>Improve malloc implementation</td>
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<td>969</td>
<td>Feature</td>
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<td>Normal</td>
<td>AMPI support for collectives on inter-communicators</td>
<td>Karthik Senthil</td>
<td>10/11/2017 03:28 PM</td>
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<td>968</td>
<td>Bug</td>
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<td>Low</td>
<td>charm++ programs fail to run on BlueWaters due to craype-hugepages8M</td>
<td>Michael Robson</td>
<td>02/01/2017 10:35 PM</td>
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<td>952</td>
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<td>Update AMPI's version of ROMIO</td>
<td>Matthias Diener</td>
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<td>947</td>
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<td>AMPI support for MPI-2's MPI_Type_* routines</td>
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<td>07/19/2018 09:31 AM</td>
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<td>944</td>
<td>Feature</td>
<td>In Progress</td>
<td>Normal</td>
<td>AMPI compliance with MPI-2.2 standard</td>
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<td>931</td>
<td>Bug</td>
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<td>avoid failing back to hostname ip lookup for physical node detection</td>
<td>Nikhil Jain</td>
<td>12/14/2015 04:03 PM</td>
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<td>922</td>
<td>Feature</td>
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<td>Document template instantiation for registration/call wrapper code without .ci file declaration for interop use case</td>
<td>Michael Robson</td>
<td>02/15/2016 10:18 AM</td>
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<td>921</td>
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<td>Entry tag [inline] is unable to optimize away most of the overhead</td>
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<td>05/02/2018 12:10 AM</td>
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<td>920</td>
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<td>Normal</td>
<td>Per-GPU Node Groups</td>
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<td>Bug</td>
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<td>Low</td>
<td>multcore +commthread forces +CmiSleepOnIdle, may crash on exit</td>
<td>Sam White</td>
<td>12/08/2015 03:28 PM</td>
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<td>Normal</td>
<td>Projections shows garbage for the source PE of a char array insertion event</td>
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<td>Normal</td>
<td>AMPI support for compiler-automated static variable privatization</td>
<td>Sam White</td>
<td>12/29/2017 11:52 AM</td>
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<td>895</td>
<td>Cleanup</td>
<td>New</td>
<td>Normal</td>
<td>Refactor charmmun interface code in RTS to deduplicate netIrts/verbs</td>
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<td>05/10/2018 05:14 PM</td>
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<td>Low</td>
<td>extend physical node detection across partitions</td>
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<td>881</td>
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<td>Normal</td>
<td>Automatically determine location of nvcc when compiling programs using charm in accel</td>
<td>Michael Robson</td>
<td>10/11/2017 03:10 PM</td>
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<td>Return data from [sync] SDAG methods</td>
<td>Eric Mikida</td>
<td>05/09/2018 11:12 AM</td>
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<td>870</td>
<td>Feature</td>
<td>New</td>
<td>Normal</td>
<td>SDAG methods marked as [sync] should only return when run to completion</td>
<td>Eric Mikida</td>
<td>03/27/2018 08:21 PM</td>
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<td>861</td>
<td>Feature</td>
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<td>Normal</td>
<td>Add Support for CrayPat</td>
<td>Ronak Buch</td>
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<td>858</td>
<td>Feature</td>
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<td>Normal</td>
<td>improve efficiency of exclusive entry methods</td>
<td>Kavitha Chandrasekar</td>
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<td>815</td>
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<td>Normal</td>
<td>Makefile for hybrid API is not using the system OPTS</td>
<td>Michael Robson</td>
<td>03/15/2018 03:31 PM</td>
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<td>812</td>
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<td>Low</td>
<td>Merge Accel Branch</td>
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<td>Normal</td>
<td>CUDA examples broken on Blue Waters</td>
<td>Michael Robson</td>
<td>03/15/2018 03:31 PM</td>
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<td>801</td>
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<td>Create separate builds for accel and gpu manager</td>
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<td>CUDA build does not correctly find cuda location</td>
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<td>communication thread should send messages in priority order</td>
<td>Nitin Bhat</td>
<td>11/29/2017 12:46 PM</td>
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<td>690</td>
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<td>Broadcast to [sync] entry method should work as expected (e.g. act like passing CkCallbackResumeThread)</td>
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<td>05/09/2018 11:13 AM</td>
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<td>Bug</td>
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<td>Isomalloc PUP has invalid read memory errors</td>
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<td>11/11/2018 05:09 PM</td>
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<td>688</td>
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<td>ampi/megampi test fails with randomized queues</td>
<td>Sam White</td>
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<td>charm++/sdag/migration test fails with randomized queues</td>
<td>Kavitha Chandrasekar</td>
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<td>Feedback</td>
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<td>charm++/queue test fails with randomized queues</td>
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<td>10/26/2015 01:59 PM</td>
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<td>665</td>
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<td>charm++/delegation/multicast test fails with randomized queues due to a bug in support for anytime migration</td>
<td>Juan Galvez</td>
<td>10/11/2017 03:20 PM</td>
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<td>Add PME functionality to LeanMD</td>
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<td>650</td>
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<td>New</td>
<td>Normal</td>
<td>Consolidate duplicated Fortran compiler detection/configuration</td>
<td>Sam White</td>
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<td>protect load balancer from variable cpu clock</td>
<td>Kavitha Chandrasekar</td>
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<td>Normal</td>
<td>method to distribute message receives across pes in node</td>
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<td>634</td>
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<td>Mechanism (fence/barrier) to delay execution of long methods until latency-sensitive methods are done</td>
<td>PPL</td>
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<td>Normal</td>
<td>Cut long-running tests &amp; examples out of ‘make test’</td>
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<td>Avoid duplicated work between CmiNodeOf and CmiRankOf</td>
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<td>02/09/2018 09:52 AM</td>
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<td>559</td>
<td>Feature</td>
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<td>Normal</td>
<td>Generic (un)marshalling code to replace code generation per entry-method</td>
<td>Venkatasubrahmanian Narayanan</td>
<td>02/28/2019 12:22 PM</td>
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<td>558</td>
<td>Feature</td>
<td>New</td>
<td>Normal</td>
<td>Eliminate need for code generation from .ci file with full compile-time error checking</td>
<td>Venkatasubrahmanian Narayanan</td>
<td>02/28/2019 12:22 PM</td>
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<td>551</td>
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<td>CkiO processor placement options are ignored</td>
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<td>CmiDestroyLocks destroys a lock that the thread (or another) is holding</td>
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<td>Data race in ConverseExit</td>
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<td>Make Jenkins Instance Public</td>
<td>Ronak Buch</td>
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<td>Low</td>
<td>Calling <code>migrateMe</code> in SDAG serial block accesses members of deallocated chare</td>
<td>Ronak Buch</td>
<td>12/29/2017 11:58 AM</td>
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<td>Licensing of parallel random number generator from NCSA</td>
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<td>Licensing of TreeMatchLB and supporting code</td>
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<td>12/29/2017 11:53 AM</td>
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<td>pamrils: Port L2 atomic support from pami layer</td>
<td>Michael Robson</td>
<td>02/15/2016 03:04 PM</td>
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<td>Callbacks to array elements that should be demand-created</td>
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<td>CkiO: Automatic re-open of files across checkpoint/restart</td>
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<td>Low</td>
<td>Message logging fails to deliver chare messages through VidBlock</td>
<td>Juan Galvez</td>
<td>10/11/2017 03:25 PM</td>
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<td>Pack variable-envelope structures to reduce overhead bytes</td>
<td>Eric Mikida</td>
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<td>Remove &quot;custom packed messages&quot; in favor of PUP framework</td>
<td>PPL</td>
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<td>Reduction Starting messages - Performance optimal solution</td>
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<td>Interoperation in NETLRTS layer</td>
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<td>Avoid warning in sockRoutines</td>
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<td>Normal</td>
<td>TLS-based AMPI variable privatization source-to-source translation tool</td>
<td>Sam White</td>
<td>12/29/2017 11:52 AM</td>
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<td>Normal</td>
<td>Windows: Display abort message in failure pop-up</td>
<td>Eric Bohm</td>
<td>12/29/2017 12:21 PM</td>
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<td>Normal</td>
<td>Performance testing and tuning of CkIO</td>
<td>Ronak Buch</td>
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<td>Bigsim emulator: Non-ci-file readonlyly variables cause a crash at startup</td>
<td>Eric Mikida</td>
<td>02/15/2018 11:54 PM</td>
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<td>Normal</td>
<td>Bugs exposed by use of randomized Q</td>
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<tr>
<td>253</td>
<td>Feature</td>
<td>Implemented</td>
<td>Normal</td>
<td>Heterogeneous PPN support</td>
<td>Ronak Buch</td>
<td>10/11/2017 03:14 PM</td>
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<td>250</td>
<td>Bug</td>
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<td>Normal</td>
<td>Uniquely tag each chare array broadcast to enable true unique delivery</td>
<td>Nitin Bhat</td>
<td>10/31/2017 09:01 AM</td>
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<td>246</td>
<td>Bug</td>
<td>New</td>
<td>Low</td>
<td>Clean deallocation and shutdown of Charm++ processes</td>
<td>Juan Galvez</td>
<td>10/11/2017 03:26 PM</td>
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<td>235</td>
<td>Bug</td>
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<td>Low</td>
<td>CkCallback to array sections is very non-migratable</td>
<td>Juan Galvez</td>
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<td>221</td>
<td>Cleanup</td>
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<td>Delete deprecated FEM library</td>
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<td>02/15/2018 11:11 PM</td>
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<td>200</td>
<td>Feature</td>
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<td>Contribute a PUP::able entity</td>
<td>Ronak Buch</td>
<td>08/23/2018 09:13 PM</td>
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<td>194</td>
<td>Bug</td>
<td>Upstream</td>
<td>Normal</td>
<td>Cray XE/XT topology functions should use rca_get_meshtopology() to honestly report mesh/torus</td>
<td>Juan Galvez</td>
<td>10/11/2017 03:24 PM</td>
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<td>193</td>
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<td>Normal</td>
<td>objid_t: Support new message type for CharmDebug</td>
<td>Eric Mikida</td>
<td>05/09/2018 11:17 AM</td>
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<td>186</td>
<td>Bug</td>
<td>In Progress</td>
<td>Low</td>
<td>ckout and ckerr should derive from std::ostream</td>
<td>Eric Mikida</td>
<td>07/07/2016 02:47 PM</td>
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<td>180</td>
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<td>Normal</td>
<td>object location services: improve implementation and protocol</td>
<td>Eric Bohm</td>
<td>03/14/2018 12:12 PM</td>
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<td>179</td>
<td>Feature</td>
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<td>Normal</td>
<td>objid_t: adapt callbacks to use objid_t</td>
<td>Eric Mikida</td>
<td>10/11/2017 03:10 PM</td>
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<td>178</td>
<td>Feature</td>
<td>New</td>
<td>Normal</td>
<td>objid_t: fault tolerance infrastructure should use objid_t</td>
<td>Eric Mikida</td>
<td>10/11/2017 03:10 PM</td>
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<td>177</td>
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<td>objid_t: load balancing infrastructure should use objid_t</td>
<td>Eric Mikida</td>
<td>04/04/2019 03:17 PM</td>
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<td>176</td>
<td>Feature</td>
<td>In Progress</td>
<td>Normal</td>
<td>objid_t: tracing infrastructure should use objid_t</td>
<td>Ronak Buch</td>
<td>10/11/2017 03:23 PM</td>
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<td>173</td>
<td>Feature</td>
<td>New</td>
<td>Low</td>
<td>objid_t: Support user-defined conversion functions</td>
<td>Ronak Buch</td>
<td>12/29/2017 12:27 PM</td>
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<td>172</td>
<td>Feature</td>
<td>New</td>
<td>Low</td>
<td>objid_t: Exploit compile-time declared size bounds</td>
<td>Ronak Buch</td>
<td>12/29/2017 12:27 PM</td>
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<td>165</td>
<td>Cleanup</td>
<td>In Progress</td>
<td>Normal</td>
<td>object location services: separate location caching from msg delivery and buffering</td>
<td>Eric Mikida</td>
<td>10/11/2017 03:08 PM</td>
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<td>159</td>
<td>Bug</td>
<td>New</td>
<td>Low</td>
<td>Some CkCallback types are not valid across checkpoint/restart</td>
<td>Juan Galvez</td>
<td>04/11/2019 05:04 PM</td>
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<td>151</td>
<td>Support</td>
<td>New</td>
<td>Normal</td>
<td>Align -optimize flags with current release of GNU compilers</td>
<td>Michael Robson</td>
<td>04/25/2018 12:47 AM</td>
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<td>150</td>
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<td>New</td>
<td>Normal</td>
<td>Align -optimize flags with current compiler releases</td>
<td>Eric Bohm</td>
<td>12/29/2017 12:03 PM</td>
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<td>149</td>
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<td>Normal</td>
<td>Choose backend options for -optimize on icc</td>
<td>Eric Bohm</td>
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<td>mempool unit and performance tests</td>
<td>PPL</td>
<td>07/09/2015 02:35 PM</td>
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<td>129</td>
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<td>Normal</td>
<td>mempool code docs and review</td>
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<td>07/09/2015 02:35 PM</td>
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<td>120</td>
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<td>New</td>
<td>Low</td>
<td>ckmulticast and any time migration</td>
<td>Juan Galvez</td>
<td>06/20/2017 04:10 PM</td>
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<td>117</td>
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<td>New</td>
<td>Normal</td>
<td>Projections traces with fewer files than 1-per-PE</td>
<td>Ronak Buch</td>
<td>10/11/2017 03:13 PM</td>
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<td>115</td>
<td>Feature</td>
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<td>Normal</td>
<td>object location services: iteration over local objects</td>
<td>Eric Mikida</td>
<td>03/15/2017 02:18 PM</td>
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<td>112</td>
<td>Feature</td>
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<td>Normal</td>
<td>object location services: Share array element location cache above PE level</td>
<td>Eric Bohm</td>
<td>05/24/2016 03:00 PM</td>
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<td>111</td>
<td>Feature</td>
<td>In Progress</td>
<td>Low</td>
<td>object location services: scalable cache pre-population</td>
<td>Jaemin Choi</td>
<td>12/29/2017 12:19 PM</td>
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<td>107</td>
<td>Feature</td>
<td>New</td>
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<td>Migratable DMA regions</td>
<td>Eric Bohm</td>
<td>01/26/2017 12:28 PM</td>
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<td>106</td>
<td>Feature</td>
<td>New</td>
<td>Normal</td>
<td>Outgoing message prioritization</td>
<td>Nitin Bhat</td>
<td>05/09/2018 11:14 AM</td>
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<td>105</td>
<td>Feature</td>
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<td>Normal</td>
<td>Unify memory pool implementations where possible</td>
<td>Michael Robson</td>
<td>12/13/2017 03:02 PM</td>
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<td>92</td>
<td>Feature</td>
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<td>Normal</td>
<td>Topology information for Cray XC</td>
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<td>89</td>
<td>Bug</td>
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<td>Low</td>
<td>BigSim loadlog test assumes that compute-node binaries can run on the host</td>
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<td>02/15/2018 11:19 PM</td>
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<td>78</td>
<td>Bug</td>
<td>Upstream</td>
<td>Normal</td>
<td>AMPI failure with migration under Cray compiler due to tcmalloc bugs or incompatibility</td>
<td>Sam White</td>
<td>09/28/2017 02:28 PM</td>
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<td>72</td>
<td>Feature</td>
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<td>Normal</td>
<td>Better compression for Projections traces</td>
<td>Ronak Buch</td>
<td>10/11/2017 03:17 PM</td>
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<td>69</td>
<td>Feature</td>
<td>New</td>
<td>Normal</td>
<td>Get large messages sent via the ZC API to be received directly using a GET from the new home. (rather than a GET from the old home and forwarding the large message)</td>
<td>Nitin Bhat</td>
<td>04/10/2019 02:51 PM</td>
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<td>66</td>
<td>Feature</td>
<td>New</td>
<td>Normal</td>
<td>Execution within a power budget</td>
<td>Juan Galvez</td>
<td>09/27/2016 03:01 PM</td>
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<td>Normal</td>
<td>Exploit phase boundaries in iterative apps</td>
<td>Juan Galvez</td>
<td>10/11/2017 03:08 PM</td>
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<td>53</td>
<td>Bug</td>
<td>New</td>
<td>Low</td>
<td>SDAG case constructs and Bigslist traces</td>
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<td>51</td>
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<td>New</td>
<td>Normal</td>
<td>Regular performance benchmarks for AMPI</td>
<td>Sam White</td>
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<td>49</td>
<td>Feature</td>
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<td>Normal</td>
<td>Define and document semantics of dynamic Insertion in Chare arrays wrt broadcasts and reductions</td>
<td>Laxmikant &quot;Sanjay&quot; Kale</td>
<td>04/21/2018 10:10 AM</td>
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<td>Support</td>
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<td>Normal</td>
<td>Macports / Homebrew installation scripts</td>
<td>Evan Ramos</td>
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<td>LRTS Machine layer flow control</td>
<td>Nitin Bhat</td>
<td>09/27/2018 03:02 PM</td>
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<td>34</td>
<td>Feature</td>
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<td>Reduce Charm Message Send Overhead for Marshalled Messages</td>
<td>Eric Bohm</td>
<td>11/29/2017 02:51 PM</td>
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<td>Support</td>
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<td>High</td>
<td>Jenkins for Autobuild</td>
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<td>Low</td>
<td>Replica based FT</td>
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<td>Optimization of MPI layer</td>
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<td>19</td>
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<td>Extend TopoManager to work on an n-dimensional torus</td>
<td>Juan Galvez</td>
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<td>Projections tracing with MPI Interoperability</td>
<td>Nikhil Jain</td>
<td>01/21/2015 11:37 PM</td>
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<td>CkCallback to section breaks</td>
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<td>09/12/2018 05:59 PM</td>
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<td>Factor out massive duplication in reductions</td>
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<td>Make CCS work with partitions</td>
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<td>Ensure that record-replay works with partitions</td>
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