

## Charm++ - Issues

#	Tracker	Status	Priority	Subject	Assignee	Updated
2059	Bug	New	Normal	Inconsistent CPU affinity options for running SMP programs		03/15/2019 09:15 PM
2058	Feature	In Progress	High	Finish work on newLB branch and merge with master	Juan Galvez	03/14/2019 02:08 PM
2057	Cleanup	New	Normal	Revise agreement to cover github distribution and license to address all commercial use cases and GitHub Distribution	Laxmikant "Sanjay" Kale	03/14/2019 11:53 AM
2056	Bug	New	Normal	AMPI ROMIO build error	Matthias Diener	03/14/2019 11:56 AM
2054	Cleanup	New	Normal	Improve error message for unregistered chares/entry methods for when a module isn't visible	Venkatasubrahmanian Narayanan	03/14/2019 11:56 AM
2053	Feature	Implemented	Normal	Avoid receiver side copy for zero-copy broadcast by allowing receiver to post a receiver buffer	Nitin Bhat	03/18/2019 11:59 AM
2052	Bug	New	Normal	Build script does not support thread sanitizer	Venkatasubrahmanian Narayanan	02/12/2019 05:44 PM
2051	Bug	New	Normal	QD and AtSync may not work well together	Juan Galvez	02/21/2019 01:12 PM
2050	Bug	New	Normal	Inconsistent AtSync behavior with bound arrays	Eric Mikida	02/21/2019 01:12 PM
2048	Bug	New	Normal	Examine the converse header fields for all layers and remove/reduce fields wherever applicable		01/24/2019 03:07 PM
2047	Bug	New	Normal	Potential GCC 8 Hang		01/24/2019 02:36 PM
2046	Bug	New	Normal	TRAM doesn't appear to support higher dimensional chare arrays	Venkatasubrahmanian Narayanan	02/21/2019 01:11 PM
2045	Bug	In Progress	Normal	Chare array broadcast messages don't appear to be freed by the runtime	Juan Galvez	01/24/2019 02:21 PM
2043	Feature	New	Normal	Add +isomalloc_sync build-time options	Sam White	03/14/2019 02:31 PM
2042	Feature	New	Normal	Add [whenidle] to simplify speculative execution	Raghavendra Kanakagiri	02/21/2019 01:13 PM
2041	Support	Feedback	Normal	charmrun with mpirun instead of srun?	Evan Ramos	02/21/2019 02:20 PM
2040	Bug	New	Normal	pamilrts machine layer is less performant than pami machine layer	Nitin Bhat	02/21/2019 01:11 PM
2038	Feature	New	Normal	Design a Many to Many API on the Zerocopy API	Nitin Bhat	02/21/2019 01:12 PM
2036	Support	New	Normal	Ensure zero copy API transfers are included in CommLB	Nitin Bhat	12/05/2018 10:21 AM
2034	Cleanup	New	High	Deprecate message logging fault tolerance	Eric Bohm	02/12/2019 03:51 PM
2033	Cleanup	New	High	Deprecate Bigsim	Eric Bohm	02/12/2019 03:51 PM
2031	Bug	New	Normal	pamilrts-bluegeneq occasionally hangs randomly in autobuild	Nitin Bhat	03/14/2019 02:15 PM
2030	Bug	In Progress	Normal	tests/ampi/megampi sometimes fails on mpi-win-x86_64-smp	Evan Ramos	03/15/2019 05:59 PM
2024	Bug	New	Normal	Perfect forwarding support is broken for templated entry methods	Evan Ramos	10/29/2018 04:02 PM
2023	Documentation	New	Normal	Documentation on Kokkos Interoperability	Jaemin Choi	03/14/2019 11:55 AM
2019	Bug	New	Normal	Add "--enable-tracing --enable-tracing-commthread" to an autobuild target	Nitin Bhat	10/26/2018 05:22 PM
2018	Bug	New	Normal	Use of function pointers causes CkCallback errors in some ASLR environments		10/26/2018 04:49 PM
2017	Feature	New	Normal	Support for freeing Sections	Raghavendra Kanakagiri	10/26/2018 03:55 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
2016	Bug	New	Normal	+autoProvision ignores numactl settings	Evan Ramos	10/26/2018 03:41 PM
2000	Cleanup	New	Normal	debug and introspection API coverage		10/18/2018 01:29 PM
1999	Cleanup	New	Normal	evaluate record/replay in make test		10/18/2018 01:26 PM
1998	Cleanup	New	Normal	integrate charmpy tests into coverage		10/18/2018 01:23 PM
1997	Cleanup	New	Normal	Improve coverage of tests for ck.C		10/18/2018 01:12 PM
1994	Feature	In Progress	Normal	Multi-GPU support with hwloc	Jaemin Choi	01/17/2019 01:13 PM
1992	Feature	New	Normal	Distribute a Valgrind error suppression file that suppresses known RTS memory leaks	Nitin Bhat	10/18/2018 12:30 PM
1991	Bug	New	Normal	CkScanf broken with charmrun	Evan Ramos	10/18/2018 03:03 PM
1987	Feature	New	Normal	Take advantage of streamable reductions inside CkMulticast	Raghavendra Kanakagiri	03/14/2019 02:40 PM
1986	Feature	New	Normal	Avoid msg creation when contributing a pointer to a streamable reduction	Nitin Bhat	10/18/2018 12:30 PM
1982	Cleanup	New	Normal	Rewrite conv-conds.c in C++	Evan Ramos	01/11/2019 12:16 PM
1976	Bug	New	Normal	ci files with extensive code blocks result in incorrect line numbering in syntax errors and in gdb	Eric Mikida	09/11/2018 10:30 AM
1974	Feature	New	Normal	nocopy accelerated section multicast	Raghavendra Kanakagiri	03/14/2019 02:47 PM
1973	Feature	New	Normal	GPU Messages	Michael Robson	03/14/2019 02:32 PM
1972	Feature	New	Normal	Tests/examples for non-threaded Charm++ programs using Isomalloc	Evan Ramos	09/07/2018 01:41 PM
1966	Bug	New	Normal	ofi non smp fails when #PUs > #cores	Nitin Bhat	08/17/2018 05:23 PM
1964	Feature	New	Normal	Enable +isomalloc_sync by default for AMPI	Evan Ramos	02/21/2019 02:36 PM
1963	Feature	New	Normal	AMPI implements subcommunicators in an unscalable fashion	Sam White	08/09/2018 02:44 PM
1959	Bug	New	High	examples/charm++/TRAM/randomAccessGroup crashes on mpi-win-x86_64-smp with debug options (-g -O0)	Raghavendra Kanakagiri	11/19/2018 04:22 PM
1958	Bug	New	Normal	"View" -> "Display Legend" is broken	Ronak Buch	09/27/2018 01:53 PM
1957	Bug	In Progress	High	Out of bounds std::vector accesses in NDMeshStreamer	Venkatasubrahmanian Narayanan	03/19/2019 11:40 AM
1956	Bug	New	High	tests/charm++/sdag/migration and tests/charm++/sdag/anytimeMigration fail on mpi-win-x86_64-smp with debug options (-g -O0)	Eric Mikida	11/19/2018 04:22 PM
1955	Bug	New	High	tests/charm++/chkpt hangs for mpi-win-x86_64-smp	Juan Galvez	11/19/2018 04:22 PM
1953	Feature	In Progress	Normal	cmake-based build system	Matthias Diener	12/06/2018 03:07 PM
1949	Bug	New	Normal	Ensure that 'End of Program' message is printed consistently for every charm program execution		03/15/2019 03:36 PM
1942	Bug	New	Normal	CkStartQD never triggered, even though all all entry methods have returned.	Raghavendra Kanakagiri	01/03/2019 05:14 PM
1940	Bug	New	Normal	Singleton chare and nodegroup creation hangs with randomized queues in SMP mode	Michael Robson	03/14/2019 02:30 PM
1939	Feature	New	Normal	Add concept of exclusions to automated provisioning arguments	Evan Ramos	09/06/2018 03:11 PM
1936	Bug	New	Low	pose.decl.h is not found when using pose.h in the BigNetSim emulator		09/06/2018 03:13 PM
1935	Bug	Feedback	Low	Charm++ version and commit information is not available in tarball downloads of repo	Ronak Buch	08/17/2018 05:35 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
1931	Feature	In Progress	Normal	Direct API for pamilrts-linux-ppc64le	Nitin Bhat	06/11/2018 04:21 PM
1928	Bug	New	Normal	Projections shows idle time for offloaded work from OpenMP pragmas	Ronak Buch	09/06/2018 03:12 PM
1927	Documentation	Implemented	Normal	Evaluate other documentation possibilities	Matthias Diener	01/10/2019 10:45 AM
1924	Bug	New	Normal	Calls to chare array element entry methods can fail from [immediate] node group methods	Michael Robson	10/25/2018 11:26 AM
1923	Cleanup	New	Normal	Remove BigSim support	Eric Bohm	09/27/2018 01:58 PM
1918	Feature	New	Normal	Enable immediate method tracing when CMK_SMP_TRACE_COMMTHREAD is enabled	Ronak Buch	09/27/2018 02:34 PM
1914	Feature	New	Normal	Make AtSync load balancing the default rather than periodic	Juan Galvez	09/27/2018 02:31 PM
1908	Documentation	New	Normal	Document PUP::able and associated macros	Eric Mikida	03/14/2019 02:54 PM
1907	Cleanup	New	Normal	Reimplement CmiNumNodes et al using hwloc	Evan Ramos	10/02/2018 01:54 PM
1904	Bug	New	Normal	Review CMK_PCQUEUE_LOCK and CMK_NO_ASM_AVAILABLE	Kavitha Chandrasekar	10/05/2018 12:16 PM
1903	Bug	New	Normal	All load balancing framework should be off if we don't have any load balancers linked	Juan Galvez	09/27/2018 02:39 PM
1901	Bug	New	Normal	Enable viewing bracketed user events on a per-PE basis	Matthias Diener	05/09/2018 12:37 PM
1899	Bug	New	Low	AMPI jacobi.iso crashes in migration on gni-crayxe-persistent-smp autobuild	Sam White	07/03/2018 03:31 PM
1898	Cleanup	New	Normal	C++ cleanup of code formerly compiled as C	Evan Ramos	01/03/2019 05:37 PM
1887	Bug	New	Normal	Custom array indices segfault in CkVec inside of LB framework	Eric Mikida	08/21/2018 08:53 PM
1884	Feature	New	Normal	By default display the time range with traces only	Ronak Buch	04/25/2018 10:44 AM
1880	Bug	New	Normal	AMPI should reference count MPI_Op's	Sam White	04/23/2018 11:15 AM
1878	Feature	New	Normal	Tracing/Projections support for visualizing the communication graph	Ronak Buch	05/09/2018 10:32 AM
1876	Feature	New	Normal	Use IP multicast for faster broadcast and multicast on netlrts	Nitin Bhat	05/14/2018 06:30 PM
1872	Cleanup	Implemented	Normal	Move performance tests and benchmarks from "make test" to a new "make benchmark"	Evan Ramos	01/11/2019 12:17 PM
1868	Feature	New	Normal	Implement move semantics for object migration		04/20/2018 02:31 PM
1865	Feature	New	Normal	Implement zero copy translation for move semantics and rvalue refs	Eric Mikida	09/27/2018 02:40 PM
1862	Feature	New	Normal	Simplify custom reducer registration	Raghavendra Kanakagiri	05/23/2018 01:50 PM
1860	Feature	New	Normal	Support HostBuffer shared memory allocation of one buffer per physical host at same address on all hosts		05/02/2018 12:56 PM
1859	Bug	New	Low	Megampi hangs on multicore-linux-x86_64 with +CmiSleepOnIdle	Sam White	07/03/2018 03:30 PM
1851	Feature	New	Normal	Ensure PPCAtomicQueue has proper alignment/padding on ppc64le	Nitin Bhat	04/07/2018 01:02 PM
1844	Feature	New	Normal	SMP/non-SMP agnostic job launching arguments	Evan Ramos	06/21/2018 04:02 PM
1838	Bug	New	Normal	Reevaluate LBCommTable initialization	Juan Galvez	05/09/2018 10:33 AM
1837	Bug	New	Normal	uFcontext thread issue on ARM 64 bit systems	Seonmyeong Bak	05/09/2018 10:33 AM
1836	Cleanup	New	Low	Cleanup warnings in charmdebug-python		03/26/2018 07:57 PM
1834	Feature	Implemented	High	Functionality to Broadcast large buffers using the nocopy API	Nitin Bhat	12/06/2018 03:08 PM
1833	Cleanup	New	Normal	Cleanup SDAG Closure refnum handling with enable_if	Eric Mikida	03/17/2018 04:42 PM

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1829	Feature	In Progress	Normal	Enable low memory footprint migration with Isomalloc via RDMA	Sam White	04/13/2018 12:25 PM
1826	Documentation	New	Normal	Add +showcpuaffinity option to the charm++ manual	Nitin Bhat	03/09/2018 04:02 PM
1818	Feature	New	Normal	Make AMPI's within-process messaging visible to Projections	Sam White	03/05/2018 09:16 AM
1817	Feature	New	Normal	Enable building charm with link time optimization	Matthias Diener	04/25/2018 12:47 AM
1814	Feature	New	Normal	Add CkLoop Split Execution	Kavitha Chandrasekar	05/16/2018 08:37 AM
1796	Bug	New	Normal	Support for partitions on netlrts-linux-x86_64-tcp builds	Karthik Senthil	03/05/2018 11:50 PM
1795	Cleanup	New	Normal	Remove cc-cray 128 bit defines		02/07/2018 01:52 PM
1787	Documentation	New	Normal	AMPI+OpenMP documentation & example	Sam White	03/14/2019 11:55 AM
1781	Documentation	New	Normal	Clean up incorrect quotation marks in the manuals		03/28/2018 02:41 PM
1775	Bug	New	Normal	chkpt test hangs for pami-linux-ppc64le-smp & pamilrts-linux-ppc64le-smp build	Nitin Bhat	05/09/2018 10:36 AM
1774	Bug	New	High	Thread migration fails on ppc64le builds	Sam White	03/14/2019 02:22 PM
1773	Bug	New	Normal	Zerocopy examples fail on pami-linux-ppc64le-smp due to a low level assertion failure	Nitin Bhat	02/21/2018 02:03 PM
1772	Bug	New	Normal	Programs built on pami-linux-ppc64le-async-smp fail a low level assertion at runtime.	Nitin Bhat	05/09/2018 10:37 AM
1769	Feature	New	Low	AMPI implementation of Buffered sends	Sam White	11/11/2018 05:08 PM
1768	Documentation	New	Normal	document CkIO	Ronak Buch	03/14/2019 11:54 AM
1763	Feature	In Progress	Normal	Generate libmpi.{a,so} for AMPI configure scripts	Sam White	04/21/2018 10:30 AM
1762	Cleanup	New	Low	Resolve circular dependence in charmc's linking of memory/thread libraries		04/08/2018 07:57 PM
1761	Support	In Progress	High	Update GPU Manager Tracing API	Jaemin Choi	01/17/2019 01:14 PM
1759	Bug	New	Normal	cmiArgDebugFlag Used Before Initialization	Nitin Bhat	12/05/2017 06:29 PM
1742	Feature	Implemented	Normal	Send large readonly variables using the Nocopy API to reduce memory footprint and improve startup time	Nitin Bhat	12/06/2018 03:08 PM
1740	Bug	New	Normal	Failure at LrtsInit with OFI build with gni provider on Edison	Nitin Bhat	05/09/2018 10:39 AM
1738	Bug	New	Normal	Failure at LrtsInit with OFI build with verbs provider on Golub	Jaemin Choi	11/09/2017 11:41 AM
1737	Bug	New	Normal	tests/charm++/pingpong and examples/charm++/zerocopy/pingpong fail when run on 2 processes with an assertion failure on pamilrts-linux-x86_64	Nitin Bhat	05/09/2018 10:39 AM
1736	Bug	New	Normal	pami-linux-ppc64le-async-smp programs crash on Summitdev with an assertion failure	Nitin Bhat	05/09/2018 10:40 AM
1732	Support	New	Normal	Add CUDA as an option in the build script	Jaemin Choi	01/17/2019 01:14 PM
1729	Feature	New	Normal	Mark the entire RTS noexcept	Matthias Diener	06/20/2018 03:39 PM
1725	Support	In Progress	Normal	Improve pup_stl testing	Samarth Kulshreshtha	04/29/2018 11:22 AM
1713	Feature	New	Normal	DDT support for getting the addresses of contiguous parts of non-contiguous datatypes	Sam White	11/09/2018 10:18 AM
1711	Bug	In Progress	Normal	syncft tests: unclear failure	Juan Galvez	03/27/2018 06:07 PM
1710	Bug	New	Normal	syncft tests: warning and crash on init_checkpt	Juan Galvez	03/27/2018 06:07 PM
1708	Bug	Implemented	High	Charm++ programs hang with mpi-crayxc build on Edison when run on 2 hosts	Nitin Bhat	08/17/2018 05:34 PM
1707	Bug	New	Normal	Nocopy Entry method API ack handling crashes on pamilrts-bluegeneq-async-smp	Nitin Bhat	06/05/2018 05:02 PM

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1700	Bug	New	Normal	Overloaded reduction targets result in compilation error	Eric Mikida	04/13/2018 12:21 PM
1697	Feature	New	Normal	Distinguishing local object calls from entry method calls	Eric Mikida	09/27/2018 02:42 PM
1695	Feature	New	Normal	Allow "type aliases" for explicit instantiations of member function templates	Eric Mikida	04/13/2018 12:21 PM
1693	Feature	New	Normal	Print template parameters when missing explicit instantiation	Eric Mikida	09/27/2018 02:43 PM
1691	Feature	New	Low	GPU Handler PEs	Jaemin Choi	01/16/2019 04:19 PM
1689	Bug	In Progress	Normal	CMK_TIMER_USE_PPC64 inaccurate with variable clock speeds	Ronak Buch	01/17/2019 01:20 PM
1688	Bug	New	Normal	Core Dump file not available unless `--disable-charmdebug` is used while building.	Kavitha Chandrasekar	03/14/2019 04:27 PM
1686	Bug	New	Normal	Use a namespace for Charm++ code	Eric Mikida	04/13/2018 12:21 PM
1681	Support	New	Normal	Document Exception Handling in Charm++	Evan Ramos	09/27/2018 02:43 PM
1677	Feature	New	Normal	improved topology-aware partitioner	Juan Galvez	10/30/2017 09:41 AM
1676	Bug	New	Normal	Replicas slower than separate jobs on GNI systems	Ronak Buch	03/14/2019 11:58 AM
1671	Bug	New	Normal	Verbs memory pool may leak pinned memory when message is deleted on a PE different from the one to which it was delivered	Nitin Bhat	03/15/2019 09:59 AM
1666	Feature	New	Normal	Standalone OpenMP implementation based on Converse User-level threads	Seonmyeong Bak	01/12/2018 03:16 PM
1640	Bug	In Progress	Normal	Segfault during migration for AMPI in SMP mode with "-tracemode projections"	Matthias Diener	01/17/2019 01:13 PM
1638	Documentation	New	Normal	Manual has incorrect populateInitial API	Eric Mikida	07/19/2017 05:05 PM
1636	Bug	New	Low	Update the machine layer template configuration in src/arch/template	Nitin Bhat	10/11/2017 03:21 PM
1635	Bug	New	Low	Cleanup and Activate the Charm++ Topology Examples	Juan Galvez	10/11/2017 03:21 PM
1634	Bug	New	Normal	HDF5 issues in AMPI	Matthias Diener	02/09/2018 10:04 AM
1633	Bug	In Progress	Normal	NodeGroup Broadcasts creates many copies of the message for point to point sends	Nitin Bhat	05/15/2018 04:56 PM
1629	Bug	New	Normal	Valgrind shows invalid writes at GNI_SmsgSendWTag calls for charm programs built on gni-craxyc	Nitin Bhat	07/12/2017 11:12 AM
1628	Bug	New	Normal	Error while compiling LogAnalyzer tool in BigNetSim	Eric Mikida	12/13/2017 12:30 PM
1622	Feature	New	Normal	Optimize AMPI RMA routines for shared memory	Sam White	10/30/2017 11:45 PM
1612	Feature	New	Normal	Support for using rdma to return data from a [sync] entry method	Nitin Bhat	10/31/2017 08:42 AM
1608	Feature	In Progress	Normal	Support send on IDLE in TRAM	Eric Bohm	06/12/2017 04:32 PM
1586	Support	New	Normal	OpenMP integration support for external library written in and compiled by OpenMP on Charm++	Seonmyeong Bak	01/12/2018 03:16 PM
1582	Feature	New	Normal	DDT support for direct copy from a noncontiguous type to another noncontiguous type	Sam White	05/09/2018 10:51 AM
1562	Feature	New	Normal	Enable message allocation, construction, packing, etc, without generated .ci file code	Venkatasubrahmanian Narayanan	02/28/2019 12:21 PM
1557	Bug	New	Low	AMPI bindings for C-Fortran interop are incomplete	Sam White	11/11/2018 05:08 PM
1550	Cleanup	New	Normal	Missing 'make test' for examples/charm++/state_space_searchengine/	Samarth Kulshreshtha	03/27/2018 08:20 PM
1549	Feature	New	Normal	record priorities in traces and use in projections	Ronak Buch	07/11/2017 01:44 PM

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1548	Support	New	Normal	Reassess whether the primary scheduler thread should support CthSuspend	PPL	03/14/2019 11:58 AM
1545	Bug	New	Normal	Serialize std::vector with Custom Allocator	PPL	03/14/2019 11:58 AM
1542	Bug	New	Normal	CkArrayCreated callback should be part of CkArrayOptions	Evan Ramos	08/23/2018 12:06 PM
1538	Bug	New	Normal	Support Shrink/Expand in verbs	Jaemin Choi	07/11/2017 01:54 PM
1536	Feature	New	Normal	AMPI interface for mapping ranks to worker threads	Sam White	10/30/2017 11:32 PM
1525	Feature	New	Normal	Bracketed User Events Track Numerical Values	Ronak Buch	04/13/2018 12:22 PM
1524	Feature	New	Normal	Time Profile With Bracketed User Events	Matthias Diener	04/13/2018 12:22 PM
1521	Feature	New	Normal	CkIO file read support	Ronak Buch	04/20/2017 09:41 PM
1520	Bug	New	Normal	multicore-darwin-x86_64 megatest hangs when built with --enable-randomized-msgq --with-prio-type=int --enable-error-checking -debug	Kavitha Chandrasekar	10/22/2018 10:07 PM
1510	Bug	In Progress	Normal	Hang in tests/charm++/chkpt when using -tracemode perfReport	Ronak Buch	01/17/2019 01:14 PM
1505	Cleanup	New	Low	Deprecate hapi_pool* in favor of hapi_host*	Michael Robson	09/06/2018 02:08 PM
1500	Bug	New	Normal	Entry Methods Always Take lvalue References (feature/bug)	Eric Mikida	04/19/2018 02:32 PM
1499	Feature	New	Normal	Remove the need to declare entry method parameters as "rdma"	Nitin Bhat	10/30/2017 11:13 PM
1498	Bug	New	Normal	SDAG methods are not properly inherited by chare subclasses	Eric Mikida	04/13/2018 06:04 PM
1497	Feature	New	Normal	CMA support for passing data between processes on the same node	Nitin Bhat	02/07/2018 02:51 PM
1492	Feature	In Progress	Normal	Remove need for +LBCommOff	Kavitha Chandrasekar	01/17/2019 01:14 PM
1490	Cleanup	New	Normal	Automatically set NVCC path in Makefile of example program	Jaemin Choi	10/11/2017 02:46 PM
1485	Feature	New	Normal	CharmDebug in SMP mode does not work	Bilge Acun	08/01/2017 04:16 PM
1477	Bug	New	Normal	All Load Balancing Strategies should be CPU frequency (rate) aware	Juan Galvez	10/11/2017 03:21 PM
1476	Cleanup	New	Low	Fix Make.depends for libraries		03/30/2017 04:55 PM
1473	Bug	Implemented	Normal	verbs build hangs in tests/charm++/communication_overhead	Eric Bohm	01/17/2019 01:21 PM
1471	Bug	New	Normal	Parallel Prefix No Barrier Example in Charm Tutorial Hangs on MPI Layer	Matthias Diener	07/11/2017 02:05 PM
1465	Feature	Implemented	Normal	Spanning Tree implementation for scatterv	Juan Galvez	01/19/2018 02:29 PM
1459	Feature	New	Low	Zero-copy send support for the netlrts machine layer	Nitin Bhat	09/20/2018 01:29 PM
1449	Feature	New	Normal	AMPI support for MPI_Win_allocate_shared	Sam White	03/14/2019 02:32 PM
1440	Bug	New	High	smp pes sending messages still block due to other send activity	Karthik Senthil	03/07/2017 04:06 PM
1436	Feature	New	Normal	trace CcdCallFnAfter() causality	Ronak Buch	01/17/2019 01:21 PM
1435	Feature	New	Normal	Collapse prioritized msg buckets into priority queue	Raghavendra Kanakagiri	05/23/2018 01:53 PM
1431	Bug	New	Normal	Charmxi runs out of memory	Eric Mikida	03/07/2017 11:36 AM
1428	Feature	New	Normal	AMPI TLS privatization support for IBM POWER	Evan Ramos	07/20/2018 04:29 PM
1427	Feature	New	Normal	Virtualize handling of Fortran IO units	Sam White	04/14/2018 04:12 PM
1426	Feature	New	Normal	AMPI F08 bindings	Sam White	04/14/2018 04:12 PM

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1425	Feature	In Progress	Normal	Virtualization-aware AMPI collectives	Sam White	11/09/2018 10:20 AM
1422	Cleanup	In Progress	Normal	Cleanup dangling issues from 64bit merge	Eric Mikida	02/15/2017 05:55 PM
1414	Support	New	Normal	Autobuild should run tests on SMP builds with multiple threads per process	Ronak Buch	07/11/2017 02:03 PM
1401	Feature	Implemented	Normal	Converting OpenMP test suite for the OpenMP integration.	Seonmyeong Bak	01/08/2018 04:36 PM
1394	Feature	In Progress	Normal	Node-level message aggregation for CkMulticast	Juan Galvez	10/30/2017 09:44 AM
1387	Support	New	Normal	Optimised algorithms for scatterv	Juan Galvez	01/19/2018 02:29 PM
1378	Feature	In Progress	Normal	64-bit Charm message sizes	Evan Ramos	03/26/2018 05:35 PM
1371	Feature	New	Normal	Within-node PUP API	Ronak Buch	10/18/2017 02:39 PM
1364	Bug	New	Normal	Review use of volatile variables in the runtime	Nitin Bhat	05/02/2018 05:19 PM
1346	Cleanup	Implemented	Normal	Remove AMPI's MSGLOG support for sequential re-run of parallel execution	Sam White	10/30/2017 11:35 PM
1343	Feature	In Progress	Normal	Let user-defined main() work for all execution environments	Eric Mikida	03/29/2018 10:53 AM
1340	Feature	New	Normal	Applications should only pay time and memory cost of features used		12/23/2016 07:56 PM
1337	Bug	New	Low	Cpv Declarations of types with constructors may induce 'static initialization order fiasco'		03/14/2018 12:16 PM
1336	Feature	New	Normal	Replace [accel] entry methods with pure C++ instead of code generated by charmxi from .ci files	Jaemin Choi	05/09/2018 10:50 AM
1335	Feature	New	Normal	Replace SDAG in charmxi with pure C++	Venkatasubrahmanian Narayanan	02/28/2019 12:21 PM
1334	Feature	New	Normal	Chare and entry method registration, instantiation, and invocation without code generated by charmxi from .ci files	Venkatasubrahmanian Narayanan	02/28/2019 12:21 PM
1333	Feature	New	Normal	Eliminate need for .ci files	Venkatasubrahmanian Narayanan	02/28/2019 12:21 PM
1328	Feature	New	Normal	AMPI shrink/expand example and documentation	Sam White	01/17/2019 01:23 PM
1327	Bug	In Progress	Normal	AMPI derived datatype support for RMA routines	Sam White	10/11/2017 03:25 PM
1324	Bug	New	Normal	Collision Detection library failures due to changes in demand creation	Eric Mikida	03/07/2017 11:39 AM
1321	Feature	New	High	multiple communication threads per process	Ronak Buch	11/01/2017 02:45 PM
1317	Support	New	Normal	Add Metabalancer tests to nightly build	Kavitha Chandrasekar	03/27/2018 08:19 PM
1315	Cleanup	New	Normal	examples/charm++/jacobi*d are non-exemplary HPC code, using nested arrays	Juan Galvez	05/09/2018 11:07 AM
1314	Cleanup	New	Normal	Replace widespread dynamic allocated arrays with std::vector	Evan Ramos	01/11/2019 12:15 PM
1313	Bug	New	Normal	Support MPI_Info's on a per-{comm,win} basis	Karthik Senthil	10/31/2017 08:52 AM
1309	Feature	New	Normal	Use CkMulticast for collectives on AMPI subcommunicators	Raghavendra Kanakagiri	09/06/2018 03:36 PM
1306	Bug	New	Normal	PythonCCS-client needs to be compiled without CONVERSE	Juan Galvez	10/11/2017 03:23 PM
1305	Feature	New	Normal	Implement MPI-R debugging hooks in RTS startup	Matthias Diener	05/09/2018 10:53 AM
1304	Feature	New	Normal	Charmrun: implement MPI-R debugging hooks	Matthias Diener	05/09/2018 10:54 AM
1303	Feature	New	Normal	Implement MPI-R debugging hooks to support Allinea DDT and Rogue Wave Totalview	Evan Ramos	01/18/2018 04:45 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
1300	Feature	In Progress	Normal	Integrated OpenMP should co-exist with MPI interop	Seonmyeong Bak	02/06/2017 05:27 PM
1281	Bug	New	Low	Bigsim crash in SDAG code in examples/charm++/load_balancing/stencil3d	Eric Mikida	10/11/2017 03:24 PM
1279	Bug	New	Normal	Proactive fault tolerance fails due to sending message to dead node.	Juan Galvez	10/11/2017 03:21 PM
1264	Feature	New	Normal	Use Infiniband multicast for broadcast/multicast	Jaemin Choi	11/09/2016 01:55 PM
1263	Bug	New	Normal	AVX512 Support	Ronak Buch	02/16/2018 12:09 AM
1260	Feature	New	Low	MPI_T tools interface support in AMPI		10/15/2016 12:26 PM
1258	Feature	New	Normal	AMPI support for MPI-3 RMA	Sam White	10/30/2017 11:33 PM
1256	Documentation	New	Normal	Document '-tracemode perfReport' in the manual	Ronak Buch	03/14/2019 11:55 AM
1250	Bug	New	Normal	Tuple reductions cannot have [reductiontarget] callbacks	Karthik Senthil	10/11/2017 03:10 PM
1248	Feature	Implemented	Normal	Charm++ scatter(v) collective interface	Juan Galvez	01/19/2018 02:29 PM
1247	Bug	New	Normal	Problem with reduction when inheriting pure virtual functions	Nitin Bhat	10/09/2016 03:11 PM
1246	Feature	Implemented	Normal	Versioning for [accel] entry methods	Michael Robson	10/04/2016 05:03 PM
1245	Feature	In Progress	Normal	Support for [accel] entry methods	Michael Robson	10/04/2016 05:02 PM
1244	Bug	New	Normal	mlogft and causalt builds do not compile	Eric Mikida	10/11/2017 03:10 PM
1239	Bug	In Progress	Normal	Cleanup reduction uses in the runtime	Karthik Senthil	03/15/2018 02:49 PM
1236	Feature	Implemented	Normal	Avoid receiver-side copy for large contiguous messages. API for charm and converse layers	Nitin Bhat	01/16/2019 10:47 AM
1232	Feature	New	Normal	AMPI migration detection mechanisms	Sam White	10/30/2017 11:34 PM
1230	Bug	New	Normal	Excessive memory utilization when ingesting files into Timeline	Ronak Buch	11/06/2016 08:32 AM
1227	Bug	New	Normal	Support template entry methods in generated code from TRAM [aggregate] entry method attribute	Eric Mikida	01/30/2018 10:48 PM
1214	Bug	New	Normal	AMPI_Just_migrated callbacks break using tsglobals/isomalloc	Sam White	10/11/2017 03:10 PM
1205	Bug	New	Normal	AMPI's -tsglobals option is only supported by GCC	Sam White	10/18/2018 09:39 AM
1202	Bug	New	Low	Memory leaks in converse's cldb	Juan Galvez	10/11/2017 03:19 PM
1184	Feature	Implemented	Normal	SMP-safe CmiReference and CmiFree	Evan Ramos	05/07/2018 04:38 PM
1183	Bug	New	Normal	megatest and megacon should work for large node counts	Jaemin Choi	11/29/2016 03:46 PM
1182	Feature	New	High	Support automated thread spawn/bind for MPI SMP builds	Evan Ramos	06/21/2018 04:06 PM
1179	Feature	New	Normal	Support automated launch/spawn/bind on gni-crayxc/gni-crayxe systems	Evan Ramos	06/21/2018 04:06 PM
1177	Feature	New	Normal	Support variable numbers of processes per host, each with identical thread counts	Evan Ramos	06/21/2018 04:06 PM
1173	Feature	In Progress	High	Automatic process launching, thread spawning, and hardware binding	Evan Ramos	06/21/2018 04:04 PM
1167	Support	New	Normal	Scripted tests for all mini-apps		08/18/2016 02:15 PM
1159	Bug	In Progress	Low	AMPI should check for truncated messages	Sam White	10/11/2017 03:10 PM
1158	Feature	New	Normal	AMPI scatter(v) performance is poor	Sam White	10/30/2017 11:34 PM
1155	Bug	New	Normal	AMPI's non-blocking collectives are not sequenced	Sam White	08/28/2018 10:33 AM



#	Tracker	Status	Priority	Subject	Assignee	Updated
1144	Feature	New	Normal	Batched message delivery to objects for better cache behavior		05/09/2018 10:57 AM
1135	Feature	New	Normal	Pass a future into or return one from [sync] entry methods, so that the caller isn't forced to block	Eric Mikida	06/20/2017 04:13 PM
1117	Feature	New	Normal	Shrink-expand malleable jobs should be able to change node set	Juan Galvez	11/01/2017 02:47 PM
1115	Bug	New	Normal	verbs slower than mpi on Omni-Path	Nitin Bhat	12/13/2016 11:25 PM
1105	Feature	Implemented	Normal	AMPI support for large counts	Sam White	07/19/2018 09:32 AM
1101	Bug	New	Normal	Poor error messages when forgetting to 'extern module x' in ci files	Eric Mikida	09/21/2016 12:32 PM
1100	Bug	New	Normal	Cannot create variable sized messages with objects that have virtual methods	Nitin Bhat	09/21/2016 12:33 PM
1095	Feature	In Progress	Low	Improve AMPI error handling	Sam White	10/30/2017 11:34 PM
1065	Cleanup	In Progress	Normal	Create a more efficient caching structure for location lookup	Eric Mikida	10/26/2017 09:20 PM
1063	Bug	New	Normal	Error in buddy assignment code for checkpointing	Juan Galvez	05/09/2018 10:40 AM
1060	Feature	In Progress	Normal	AMPI compliance with MPI-3.1 standard	Sam White	07/19/2018 09:32 AM
1059	Cleanup	New	Normal	Unify Data Collection in Charm++	Ronak Buch	11/01/2017 02:46 PM
1057	Feature	In Progress	Normal	Just user event tracing	Ronak Buch	07/07/2016 10:22 AM
1056	Feature	New	Normal	make trivial SDAG nodegroup entries reentrant		06/23/2016 11:19 AM
1044	Feature	New	Normal	AMPI support for MPI_THREAD_SERIALIZED	Sam White	10/30/2017 11:34 PM
1040	Feature	New	Normal	support multiple InfiniBand cards per node	Nitin Bhat	03/14/2019 02:44 PM
1039	Feature	New	Low	reject pemap/commap with duplicate or too few cpus	Evan Ramos	06/21/2018 04:04 PM
1037	Bug	In Progress	Normal	megacon link failure	Ronak Buch	02/16/2018 12:03 AM
1035	Bug	In Progress	Normal	Idle PEs compete with comm thread for node queue lock	Michael Robson	01/17/2019 01:14 PM
1015	Cleanup	New	Low	mpi-coexist example hardcodes C++ compiler flags	Sam White	12/13/2017 03:09 PM
1009	Bug	New	Normal	Improve Parsing for SDAG Boolean Expressions	Eric Mikida	09/26/2016 11:17 AM
1006	Bug	New	Normal	charmxi: nested braces in serial blocks can lead to erroneous syntax errors	Eric Mikida	09/21/2016 12:35 PM
1005	Bug	New	Low	Some Projections views broken for AMPI with user-registered functions	Ronak Buch	07/09/2018 11:24 PM
1004	Feature	New	Normal	View showing messages grouped by size	Ronak Buch	05/09/2018 11:05 AM
1003	Bug	New	Normal	"-memory paranoid" doesn't work with smp build	Eric Mikida	03/02/2016 05:00 PM
1000	Bug	New	Normal	+setcpuaffinity places replicas on same host on same cores	Karthik Senthil	03/14/2018 02:19 PM
997	Feature	Implemented	Normal	Color by user supplied parameter (e.g. timestep) in Communication over Time	Ronak Buch	05/09/2018 11:09 AM
996	Feature	Implemented	Normal	Color by user supplied parameter (e.g. timestep) in Time Profile	Ronak Buch	05/09/2018 11:09 AM
995	Feature	Implemented	Normal	Color by user supplied parameter (e.g. timestep) in non-timeline tools	Ronak Buch	01/24/2018 03:15 PM
991	Feature	Implemented	Normal	Sort Usage Profile Based on EP Time	Ronak Buch	05/09/2018 11:09 AM
980	Cleanup	New	Normal	Cleanup examples/charm++/cuda/hello	Michael Robson	03/29/2018 10:52 AM
978	Bug	In Progress	Normal	Compare the performance of Harshit's accel patch to GPU manager	Michael Robson	02/16/2018 12:00 AM

#	Tracker	Status	Priority	Subject	Assignee	Updated
976	Feature	In Progress	Normal	Tool for analyzing network message latencies	Ronak Buch	06/20/2017 04:12 PM
971	Feature	New	Normal	Improve malloc implementation		02/11/2016 04:20 PM
969	Feature	In Progress	Normal	AMPI support for collectives on inter-communicators	Karthik Senthil	10/11/2017 03:28 PM
968	Bug	Upstream	Low	charm++ programs fail to run on BlueWaters due to craype-hugepages8M	Michael Robson	02/01/2017 10:35 PM
952	Feature	In Progress	Normal	Update AMPI's version of ROMIO	Matthias Diener	02/15/2019 02:29 PM
947	Feature	In Progress	Normal	AMPI support for MPI-2's MPI_Type_* routines	Sam White	07/19/2018 09:31 AM
944	Feature	In Progress	Normal	AMPI compliance with MPI-2.2 standard	Sam White	08/14/2018 11:07 AM
931	Bug	New	Normal	avoid failing back to hostname ip lookup for physical node detection	Eric Mikida	10/11/2017 03:10 PM
924	Bug	New	Normal	Bogus object ID shown for event starting before timeline range	Ronak Buch	12/15/2015 02:52 PM
922	Feature	New	Normal	Document template instantiation for registration/call wrapper code without .ci file declaration for interop use case	Nikhil Jain	12/14/2015 04:03 PM
921	Feature	Implemented	Normal	Entry tag [inline] is unable to optimize away most of the overhead	Evan Ramos	05/02/2018 12:10 AM
920	Feature	New	Normal	Per-GPU Node Groups	Michael Robson	11/29/2018 11:54 AM
918	Bug	New	Low	multicore +commthread forces +CmiSleepOnIdle, may crash on exit		12/08/2015 03:28 PM
903	Bug	In Progress	Normal	ckexit with interop hangs sometimes	Eric Mikida	01/17/2019 01:15 PM
902	Bug	In Progress	Normal	Projections shows garbage for the source PE of a chare array insertion event	Sam White	01/17/2019 01:15 PM
896	Feature	New	Normal	AMPI support for compiler-automated static variable privatization	Sam White	12/29/2017 11:52 AM
895	Cleanup	New	Normal	Refactor charmrun interface code in RTS to deduplicate netlrts/verbs	Evan Ramos	05/10/2018 05:14 PM
885	Feature	New	Low	extend physical node detection across partitions	Michael Robson	11/29/2017 02:58 PM
881	Bug	New	Normal	Automatically determine location of nvcc when compiling programs using charmc in accel	Michael Robson	10/11/2017 03:10 PM
871	Feature	New	Normal	Return data from [sync] SDAG methods	Eric Mikida	05/09/2018 11:12 AM
870	Feature	New	Normal	SDAG methods marked as [sync] should only return when run to completion	Eric Mikida	03/27/2018 08:21 PM
861	Feature	New	Normal	Add Support for CrayPat	Ronak Buch	02/15/2016 10:15 AM
858	Feature	In Progress	Normal	improve efficiency of exclusive entry methods	Kavitha Chandrasekar	03/29/2018 10:54 AM
828	Bug	New	Normal	Chare array construction semantics differ wrt readonly array proxy on PE 0	Eric Mikida	09/21/2016 01:40 PM
815	Bug	In Progress	Normal	Makefile for hybrid API is not using the system OPTS	Michael Robson	03/15/2018 03:31 PM
812	Feature	In Progress	Low	Merge Accel Branch	Michael Robson	02/15/2016 10:18 AM
802	Bug	In Progress	Normal	CUDA examples broken on Blue Waters	Michael Robson	03/15/2018 03:31 PM
801	Feature	New	Normal	Create separate builds for accel and gpu manager	Michael Robson	10/11/2017 03:11 PM
796	Bug	New	Low	TAU crashes on simple Charm++ program		02/09/2018 09:50 AM
794	Support	New	Normal	Projections Tutorial	Ronak Buch	07/16/2015 11:36 AM
756	Bug	New	Normal	CUDA build does not correctly find cuda location	Michael Robson	03/20/2018 02:38 PM
699	Bug	New	Normal	message sends from periodic calls attributed to previous entry	Ronak Buch	09/21/2016 01:32 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
698	Feature	New	Normal	trace messages forward through communication threads	Ronak Buch	05/09/2018 11:13 AM
697	Feature	New	Normal	communication thread should send messages in priority order	Nitin Bhat	11/29/2017 12:46 PM
690	Feature	New	Normal	Broadcast to [sync] entry method should work as expected (e.g. act like passing CkCallbackResumeThread)	Eric Mikida	05/09/2018 11:13 AM
684	Bug	New	Normal	Isomalloc PUP has invalid read memory errors	Evan Ramos	11/11/2018 05:09 PM
668	Bug	In Progress	Low	ampi/megampi test fails with randomized queues	Sam White	07/03/2018 03:33 PM
667	Bug	In Progress	Normal	charm++/sdag/migration test fails with randomized queues	Kavitha Chandrasekar	09/21/2016 12:37 PM
666	Bug	Feedback	Normal	charm++/queue test fails with randomized queues	Eric Bohm	10/26/2015 01:59 PM
665	Bug	New	Normal	charm++/delegation/multicast test fails with randomized queues due to a bug in support for anytime migration	Juan Galvez	10/11/2017 03:20 PM
664	Bug	New	Normal	charm++/communication_overhead test fails with randomized queues	Eric Bohm	03/21/2017 02:45 PM
659	Feature	New	Normal	Add PME functionality to LeanMD	Nikhil Jain	02/09/2015 01:29 PM
650	Cleanup	New	Normal	Consolidate duplicated Fortran compiler detection/configuration	Sam White	04/14/2018 04:12 PM
641	Feature	New	Normal	protect load balancer from variable cpu clock	Kavitha Chandrasekar	03/27/2018 08:21 PM
639	Feature	New	Normal	method to distribute message receives across pes in node	PPL	10/11/2017 02:54 PM
634	Feature	New	Normal	Mechanism (fence/barrier) to delay execution of long methods until latency-sensitive methods are done		09/27/2018 02:56 PM
618	Feature	New	Normal	Show number of messages waiting in queue	Ronak Buch	02/11/2015 12:20 AM
595	Cleanup	In Progress	Normal	Cut long-running tests & examples out of 'make test'	PPL	10/11/2017 02:54 PM
571	Bug	New	Normal	pxshm shared queue lockless implementation is invalid	Eric Bohm	10/31/2017 09:00 AM
560	Cleanup	New	Low	Avoid duplicated work between CmiNodeOf and CmiRankOf	Nitin Bhat	02/09/2018 09:52 AM
559	Feature	New	Normal	Generic (un)marshalling code to replace code generation per entry-method	Venkatasubrahmanian Narayanan	02/28/2019 12:22 PM
558	Feature	New	Normal	Eliminate need for code generation from .ci file with full compile-time error checking	Venkatasubrahmanian Narayanan	02/28/2019 12:22 PM
551	Bug	New	Normal	CkIO processor placement options are ignored	Ronak Buch	10/11/2017 03:24 PM
540	Cleanup	New	Low	CmiDestroyLocks destroys a lock that the thread (or another) is holding	PPL	03/27/2018 08:21 PM
539	Cleanup	In Progress	Low	Data race in ConverseExit		05/02/2018 05:17 PM
535	Cleanup	New	Low	Errors reported by ThreadSanitizer	PPL	05/06/2018 12:46 PM
527	Feature	New	Normal	smp layer based on OpenMP 4.0 teams		04/14/2018 04:15 PM
514	Feature	New	Normal	Make reading logs more unified	Ronak Buch	02/11/2015 12:20 AM
512	Cleanup	In Progress	Low	Remove duplication of conv-mach files	PPL	02/06/2017 05:42 PM
509	Feature	New	Normal	Make Jenkins Instance Public	Ronak Buch	07/13/2015 09:27 PM
505	Feature	Implemented	Normal	show communication threads in usage profile	Ronak Buch	04/29/2018 05:59 PM
497	Bug	New	Normal	Enter button will automatically trigger OK button in the pop-up window	Ronak Buch	06/20/2017 04:13 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
480	Bug	New	Low	Calling 'migrateMe' in SDAG serial block accesses members of deallocated chare		12/29/2017 11:58 AM
475	Cleanup	New	Normal	Licensing of parallel random number generator from NCSA	Eric Bohm	04/29/2018 05:57 PM
474	Cleanup	New	Normal	Licensing of TreeMatchLB and supporting code	Eric Bohm	12/29/2017 11:53 AM
473	Cleanup	New	Normal	Licensing of library code in Data Transfer library	Eric Bohm	12/29/2017 11:52 AM
472	Cleanup	New	Normal	Licensing of CRC32 code	Eric Bohm	12/29/2017 11:52 AM
453	Cleanup	New	Normal	Remove unused data members from classes and structs used in the RTS	PPL	01/16/2017 09:31 PM
443	Feature	New	Normal	pamirlts: Port L2 atomics support from pami layer	Michael Robson	02/15/2016 03:04 PM
438	Bug	Feedback	Normal	External received bytes is higher than total received bytes	Ronak Buch	02/09/2015 12:29 PM
437	Feature	New	Low	Callbacks to array elements that should be demand-created		03/12/2014 02:25 PM
424	Feature	New	Normal	CkIO: Automatic re-open of files across checkpoint/restart	Ronak Buch	08/23/2018 09:15 PM
415	Bug	In Progress	Normal	Performance	Ronak Buch	09/28/2016 02:32 PM
414	Bug	New	Normal	Idle/Overhead Display Disagreement	Ronak Buch	09/21/2016 01:30 PM
388	Bug	In Progress	Low	Message logging fails to deliver chare messages through VidBlock	Juan Galvez	10/11/2017 03:25 PM
387	Feature	New	Low	Pack variable-envelope structures to reduce overhead bytes		04/25/2018 12:33 AM
338	Cleanup	New	Normal	Remove "custom packed messages" in favor of PUP framework		09/27/2018 03:00 PM
315	Feature	New	Normal	Reduction Starting messages - Performance optimal solution	Eric Mikida	10/11/2017 03:13 PM
301	Feature	New	Normal	Interoperation in NETLRTS layer	PPL	10/11/2017 02:54 PM
298	Bug	New	Normal	Avoid warning in sockRoutines	PPL	10/30/2017 11:30 PM
297	Feature	New	Normal	Interoperation in VERBS layer	PPL	10/11/2017 02:54 PM
295	Feature	New	Low	Non-blocking checkpointing	PPL	10/11/2017 02:54 PM
283	Feature	In Progress	Normal	TLS-based AMPI variable privatization source-to-source translation tool	Sam White	12/29/2017 11:52 AM
279	Feature	New	Normal	Windows: Display abort message in failure pop-up	Eric Bohm	12/29/2017 12:21 PM
275	Feature	In Progress	Normal	Performance testing and tuning of CkIO	Ronak Buch	10/11/2017 03:15 PM
265	Bug	New	Low	Bigsim emulator: Non-ci-file readonly variables cause a crash at startup		02/15/2018 11:54 PM
259	Bug	In Progress	Normal	Bugs exposed by use of randomized Q	Eric Mikida	07/05/2018 11:36 AM
258	Bug	In Progress	Normal	Message size doesn't show correctly for Pack-Unpack	Juan Galvez	06/20/2017 04:11 PM
256	Feature	New	Normal	PMPI: Record times and sizes of sent/received messages	Ronak Buch	02/11/2015 12:20 AM
253	Feature	Implemented	Normal	Heterogeneous PPN support	Ronak Buch	10/11/2017 03:14 PM
250	Bug	In Progress	Normal	Uniquely tag each chare array broadcast to enable true unique delivery	Nitin Bhat	10/31/2017 09:01 AM
246	Bug	New	Low	Clean deallocation and shutdown of Charm++ processes	Juan Galvez	10/11/2017 03:26 PM
235	Bug	New	Low	CkCallback to array sections is very non-migratable	Juan Galvez	10/11/2017 03:27 PM
221	Cleanup	New	Low	Delete deprecated FEM library		02/15/2018 11:11 PM
200	Feature	New	Low	Contribute a PUP::able entity		08/23/2018 09:13 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
194	Bug	Upstream	Normal	Cray XE/XT topology functions should use rca_get_meshtopology() to honestly report mesh/torus	Juan Galvez	10/11/2017 03:24 PM
193	Feature	New	Normal	objid_t: Support new message type for CharmDebug	Eric Mikida	05/09/2018 11:17 AM
186	Bug	In Progress	Low	ckout and ckerr should derive from std::ostream		07/07/2016 02:47 PM
180	Feature	In Progress	Normal	object location services: improve implementation and protocol	Eric Bohm	03/14/2018 12:12 PM
179	Feature	In Progress	Normal	objid_t: adapt callbacks to use objid_t	Eric Mikida	10/11/2017 03:10 PM
178	Feature	New	Normal	objid_t: fault tolerance infrastructure should use objid_t	Eric Mikida	10/11/2017 03:10 PM
176	Feature	In Progress	Normal	objid_t: tracing infrastructure should use objid_t	Ronak Buch	10/11/2017 03:23 PM
173	Feature	New	Low	objid_t: Support user-defined conversion functions		12/29/2017 12:27 PM
172	Feature	New	Low	objid_t: Exploit compile-time declared size bounds		12/29/2017 12:27 PM
165	Cleanup	In Progress	Normal	object location services: separate location caching from msg delivery and buffering	Eric Mikida	10/11/2017 03:08 PM
159	Bug	New	Low	Some CkCallback types are not valid across checkpoint/restart	Juan Galvez	01/17/2019 01:15 PM
151	Support	New	Normal	Align -optimize flags with current release of GNU compilers	Michael Robson	04/25/2018 12:47 AM
150	Support	New	Normal	Align -optimize flags with current compiler releases	Eric Bohm	12/29/2017 12:03 PM
149	Support	New	Normal	Choose backend options for -optimize on icc	Eric Bohm	04/25/2018 12:48 AM
130	Feature	New	Normal	mempool unit and performance tests	PPL	07/09/2015 02:35 PM
129	Support	New	Normal	mempool code docs and review	PPL	07/09/2015 02:35 PM
120	Bug	New	Low	ckmulticast and any time migration	Juan Galvez	06/20/2017 04:10 PM
117	Feature	New	Normal	Projections traces with fewer files than 1-per-PE	Ronak Buch	10/11/2017 03:13 PM
115	Feature	New	Normal	object location services: iteration over local objects	Eric Mikida	03/15/2017 02:18 PM
112	Feature	New	Normal	object location services: Share array element location cache above PE level	Eric Bohm	05/24/2018 03:00 PM
111	Feature	In Progress	Low	object location services: scalable cache pre-population	Jaemin Choi	12/29/2017 12:19 PM
107	Feature	New	Normal	Migratable DMA regions	Eric Bohm	01/26/2017 12:28 PM
106	Feature	New	Normal	Outgoing message prioritization	Nitin Bhat	05/09/2018 11:14 AM
105	Feature	In Progress	Normal	Unify memory pool implementations where possible	Michael Robson	12/13/2017 03:02 PM
92	Feature	New	Normal	Topology information for Cray XC	Juan Galvez	02/15/2018 11:27 PM
89	Bug	New	Low	BigSim loadlog test assumes that compute-node binaries can run on the host		02/15/2018 11:19 PM
78	Bug	Upstream	Normal	AMPI failure with migration under Cray compiler due to tcmalloc bugs or incompatibility	Sam White	09/28/2017 02:28 PM
72	Feature	New	Normal	Better compression for Projections traces	Ronak Buch	10/11/2017 03:17 PM
69	Feature	New	Normal	Get large messages directed at migrated objects directly from the sender	Nitin Bhat	01/17/2019 01:15 PM
66	Feature	New	Normal	Execution within a power budget		02/01/2017 02:00 PM
60	Feature	New	Normal	Exploit phase boundaries in iterative apps	Juan Galvez	09/27/2018 03:01 PM
53	Bug	New	Low	SDAG case constructs and Bigsim traces		10/11/2017 03:08 PM

#	Tracker	Status	Priority	Subject	Assignee	Updated
51	Support	New	Normal	Regular performance benchmarks for AMPI	Sam White	04/23/2016 12:09 PM
49	Feature	New	Normal	Define and document semantics of dynamic Insertion in Chare arrays wrt broadcasts and reductions	Laxmikant "Sanjay" Kale	04/21/2018 10:10 AM
44	Support	New	Normal	Macports / Homebrew installation scripts	Evan Ramos	02/21/2019 01:17 PM
41	Feature	New	Normal	LRTS Machine layer flow control	Nitin Bhat	09/27/2018 03:02 PM
34	Feature	New	High	Reduce Charm Message Send Overhead for Marshalled Messages	Eric Bohm	11/29/2017 02:51 PM
33	Support	In Progress	High	Jenkins for Autobuild	Ronak Buch	07/13/2015 09:27 PM
28	Feature	In Progress	Low	Replica based FT	PPL	06/20/2017 04:16 PM
23	Feature	New	Normal	Optimization of MPI layer	Nitin Bhat	09/27/2018 03:02 PM
21	Feature	New	Low	3D view in Projections	PPL	07/09/2015 02:38 PM
19	Feature	New	Low	Extend TopoManager to work on an n-dimensional torus	Juan Galvez	01/16/2017 09:12 PM
16	Feature	New	Low	Projections tracing with MPI Interoperability	Nikhil Jain	01/21/2015 11:37 PM
13	Feature	New	Normal	CkCallback to section breaks	Juan Galvez	09/12/2018 05:59 PM
12	Cleanup	New	Normal	Factor out massive duplication in reductions	Juan Galvez	12/29/2017 12:12 PM
11	Feature	New	Low	Make CCS work with partitions		02/12/2015 11:19 AM
9	Feature	New	Low	Ensure that record-replay works with partitions		02/12/2015 11:19 AM
8	Feature	New	Low	Ensure that various features work with partitions		04/18/2018 05:14 PM