

artdaq - Issues

| # | Tracker | Status | Priority | Subject | Assignee | Updated |
|-------|---------|----------|----------|---|-----------------|---------------------|
| 25502 | Idea | New | Normal | Investigate moving away from smc_compiler | | 02/10/2021 11:43 AM |
| 25262 | Idea | New | Normal | Include links to detailed information in MessageFacility Messages | | 11/30/2020 01:57 PM |
| 24508 | Idea | Closed | Normal | Separate Fragment Buffering (and Request applying) from Generating | | 07/24/2020 02:13 PM |
| 24398 | Idea | Closed | Normal | Separate Request Buffering from Request Receiving | Eric Flumerfelt | 07/24/2020 02:13 PM |
| 24375 | Idea | New | Normal | Look into possible performance improvements due to using byte as the basic Fragment data type | | 05/19/2020 04:43 PM |
| 24312 | Idea | Rejected | Normal | DAQInterface should ensure that the MessageFacility FHiCL code it's given is legal | | 05/20/2020 03:05 PM |
| 23979 | Idea | Closed | Normal | The standard DAQInterface settings file should set advanced_memory_usage to true | John Freeman | 11/30/2020 12:32 PM |
| 23837 | Idea | New | Normal | Handle full disk in output modules | | 01/07/2020 01:29 PM |
| 23782 | Idea | New | Normal | Create plugin type for CommandableFragmentGenerator request modes | | 12/19/2019 09:27 AM |
| 23778 | Idea | New | Normal | Dynamic reconfiguration of EventBuilder sources | | 12/18/2019 10:52 AM |
| 23776 | Idea | New | Normal | Allow users more control of MetricPlugin behavior | | 12/18/2019 08:45 AM |
| 23639 | Idea | New | Normal | Support for non-scalar metric reporting | | 11/20/2019 09:23 AM |
| 23470 | Idea | New | Normal | Upgrade to Python 3 | Eric Flumerfelt | 12/08/2020 03:52 PM |
| 23029 | Idea | New | Normal | DAQInterface could launch processes in parallel across nodes | John Freeman | 12/19/2019 12:25 PM |
| 22736 | Idea | New | Normal | Process a run_records directory and generate a graphical representation of the configuration | | 06/20/2019 10:52 AM |
| 22595 | Idea | New | Normal | Filesystem transfer plugin | | 06/04/2019 08:41 AM |
| 22529 | Idea | New | Normal | Support the (proto)DUNE DFO Model in artdaq | | 07/25/2019 10:23 AM |
| 22372 | Idea | Closed | Normal | daqinterface - can it check, before start, for stale sharedmemory segments for the appropriate partition? | John Freeman | 11/22/2019 01:56 PM |
| 22355 | Idea | Closed | Normal | Add "Minimum" and "Maximum" to MetricMode, make it a flags enum | Eric Flumerfelt | 07/25/2019 09:10 AM |
| 22197 | Idea | Reviewed | Normal | DAQInterface should have a "help" option | John Freeman | 08/06/2019 02:11 PM |
| 22145 | Idea | New | Normal | Allow experiments to put certain Fragments on separate ROOT Branches | | 03/15/2019 10:02 AM |
| 22137 | Idea | Reviewed | Normal | Can the ProtoDUNE variant of DAQInterface be absorbed into standard DAQInterface? | John Freeman | 04/12/2019 07:19 PM |
| 22068 | Idea | Rejected | Normal | Use recursive mutex in CommandableFragmentGenerator to improve code clarity | Eric Flumerfelt | 03/19/2021 12:43 PM |
| 22059 | Idea | Closed | Normal | Implement filename wildcards in RootDAQOut | Kurt Biery | 03/06/2019 11:31 AM |
| 21923 | Idea | Closed | Normal | With a few code changes, we could support multiple logger processes sending events to the Dispatcher | Kurt Biery | 12/10/2019 11:49 AM |
| 21667 | Idea | Closed | Normal | Reorganize artdaq code (specifically the Application directory) | Eric Flumerfelt | 04/30/2019 11:33 AM |
| 21496 | Idea | Resolved | Normal | Support hexadecimal values in settings_example | John Freeman | 12/13/2018 04:49 PM |
| 21368 | Idea | Closed | Normal | A proposal to make CommandableFragmentGenerator non-default constructible | | 10/18/2019 03:03 PM |
| 21206 | Idea | New | Normal | RoutingMaster should always send up-to-date updates | | 10/22/2018 01:47 PM |
| 21178 | Idea | New | Normal | Limit DataLoggers to one art process | | 10/25/2018 12:22 PM |
| 21165 | Idea | New | Normal | Create a Null_generator CommandableFragmentGenerator | | 10/16/2018 11:33 AM |

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| 21164 | Idea | New | Normal | A simple-test-config that has configure-only BRs might be useful to help mimic protoDUNE-like systems | | 10/16/2018 11:33 AM |
| 21116 | Idea | New | Low | Process for managing Online Monitors | | 10/11/2018 02:10 PM |
| 21071 | Idea | Closed | Normal | Fragment header fields to indicate issues during DAQ | Eric Flumerfelt | 07/24/2019 11:30 AM |
| 21055 | Idea | Rejected | Low | Fragment Generator for EPICS Data | | 03/19/2021 12:39 PM |
| 20982 | Idea | Closed | Normal | Iterate artdaq_database into quick-mrb-start.sh / run_demo.sh. | Gennadiy Lukhanin | 11/30/2020 12:34 PM |
| 20979 | Idea | Resolved | Normal | Remove deprecated simple_test_configs | Eric Flumerfelt | 10/12/2018 12:50 PM |
| 20815 | Idea | Closed | Normal | Include RawEventHeader as art product | Eric Flumerfelt | 07/24/2020 02:05 PM |
| 20803 | Idea | Resolved | Normal | DAQInterface's requirement that a boardreader FHiCL document be of the form <componentname>_hw_cfg.fcl should be removed | John Freeman | 09/14/2018 10:34 AM |
| 20764 | Idea | New | Low | RoutingMaster learns data rate and adjusts accordingly | | 09/06/2018 02:20 PM |
| 20508 | Idea | Closed | Low | Manage committing whitespace changes | | 10/18/2019 02:46 PM |
| 20482 | Idea | New | Normal | Add support for "#includes" before PROLOGs in the db layer. | | 07/30/2018 12:51 PM |
| 20481 | Idea | New | Normal | Add the "--print-description" option to DAQ processes. | | 07/30/2018 12:42 PM |
| 20476 | Idea | New | Normal | Develop a plan for incorporating Inhibit Master functionality into artdaq | | 07/30/2018 09:19 AM |
| 20471 | Idea | Closed | Low | standardize on a code format | | 10/18/2019 03:05 PM |
| 20456 | Idea | New | Normal | Collaborate with UK folks on an in-memory database for status monitoring and possibly routing | | 07/26/2018 11:55 AM |
| 20455 | Idea | New | Normal | Think about ways to support different configuration formats which still maintaining traceability and archiving | | 07/26/2018 10:17 AM |
| 20446 | Idea | New | Normal | Re-examine the handling of subrun rollover messages and subrun pieces in art | | 07/25/2018 02:31 PM |
| 20445 | Idea | New | Normal | Think about whether EBs sending requests is more reliable than sending routing tables from the RoutingMaster | | 07/25/2018 02:19 PM |
| 20444 | Idea | New | Normal | Look into redesign possibilities to avoid coupling behavior to the presence of data | | 07/25/2018 02:12 PM |
| 20443 | Idea | New | Normal | Look for redesign opportunities to remove timeouts and provide more reliable behavior | | 07/25/2018 02:10 PM |
| 20442 | Idea | New | Normal | Evaluate the shared memory interplay between "broadcast," "reliable," "overwrite" and "drop" design/functionality (and corresponding fcl config) | | 09/19/2018 01:12 PM |
| 20393 | Idea | New | Normal | Redesign the use of sequence IDs so that counter_inc() actually increments something | | 07/23/2018 07:50 AM |
| 20294 | Idea | New | Low | Sync message in TCPSocketTransfer | | 07/23/2018 02:48 PM |
| 18521 | Idea | Closed | Normal | Consider not dropping out-of-sequence requests | Eric Flumerfelt | 01/27/2018 12:44 PM |
| 18266 | Idea | Closed | Normal | Come up with concept of failure to fulfill request | | 11/05/2019 09:07 AM |
| 18210 | Idea | Closed | Normal | Non-pathological low request rate results in error message | | 11/05/2019 09:06 AM |
| 18205 | Idea | Closed | Normal | A dropped request shouldn't imply empty fragments for subsequent requests | Eric Flumerfelt | 01/27/2018 12:39 PM |
| 16703 | Idea | Closed | Normal | For debugging purposes, make it simple to install any versions of the various packages (artdaq, artdaq-demo, etc.) | | 01/27/2018 12:37 PM |
| 15791 | Idea | New | Normal | To prevent 100% CPU usage by fragment generators, users should have to specify a sleep time in getNext_() | | 03/08/2017 05:13 PM |
| 15749 | Idea | Resolved | Normal | Provide an option to DAQInterface in which it's not in charge of the artdaq processes | John Freeman | 03/28/2017 10:24 AM |
| 15738 | Idea | New | Normal | Improved handling of messageviewer by DAQInterface | John Freeman | 03/03/2017 04:55 PM |

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| 15709 | Idea | Closed | Normal | Minimize dependencies of artdaq-core | Eric Flumerfelt | 03/02/2017 09:21 AM |
| 15428 | Idea | Closed | Normal | Console output module for color-coded MessageFacility messages | Eric Flumerfelt | 02/10/2017 12:01 PM |
| 15350 | Idea | Closed | Normal | art as separate process in EventBuilder and DataLogger | Eric Flumerfelt | 01/27/2018 12:34 PM |
| 15323 | Idea | New | Normal | Setting alignment and padding defaults of QuickVec | Ron Rechenmacher | 01/26/2017 11:30 AM |
| 15267 | Idea | Resolved | Normal | Improve error handling in DAQInterface | John Freeman | 02/10/2017 01:07 PM |
| 15155 | Idea | Closed | Normal | Consider some form of plugin-based system for command and control of artdaq processes | Eric Flumerfelt | 01/27/2018 12:35 PM |
| 14999 | Idea | Closed | Normal | DataRequests should contain all outstanding events | Eric Flumerfelt | 01/11/2017 08:51 AM |
| 14998 | Idea | Closed | Normal | Change all instances of the word "trigger" with the phrase "data request" | Eric Flumerfelt | 01/11/2017 08:47 AM |
| 14781 | Idea | Closed | Normal | Investigate starting art as a subordinate, but separate, process in the EventBuilder and Aggregator | Eric Flumerfelt | 01/27/2018 12:33 PM |
| 14661 | Idea | Closed | Normal | Can artdaq::Fragment have zero dependencies on other code in the art stack? | | 03/02/2017 10:40 AM |
| 14606 | Idea | Resolved | Normal | Implement the transition scripts called by sdaqinterface.py for high-level control of artdaq processes | John Freeman | 02/10/2017 01:07 PM |
| 13682 | Idea | Closed | Normal | Graphical interface for viewing data flow through an ARTDAQ system | Eric Flumerfelt | 08/25/2016 03:39 PM |
| 13528 | Idea | Closed | Normal | FragmentGenerators should be primarily configured via fcl files | Eric Flumerfelt | 01/13/2017 03:42 PM |
| 13527 | Idea | Closed | Normal | Combine CommandableFragmentGenerator and TriggeredFragmentGenerator | Eric Flumerfelt | 08/25/2016 04:13 PM |
| 13430 | Idea | Closed | Normal | Replace the monitoring aggregator with a dispatcher | John Freeman | 09/21/2016 03:24 PM |
| 13389 | Idea | Closed | Normal | Make sure error messages are as useful as possible for end users | John Freeman | 11/05/2019 09:09 AM |
| 11878 | Idea | Closed | Normal | Do-nothing filter which spins for a while then passes fragments on | Eric Flumerfelt | 05/04/2016 04:04 PM |
| 11693 | Idea | New | Normal | Create an artdaq-skeleton (and probably artdaq-core-skeleton) package that users can use to get started. | | 01/13/2017 03:51 PM |
| 11692 | Idea | Closed | Normal | Add the use of MRB to the artdaq-demo. | Eric Flumerfelt | 08/25/2016 04:10 PM |
| 11691 | Idea | Closed | Normal | Modify the metadata-related methods in artdaq::Fragment | John Freeman | 06/17/2016 02:07 PM |
| 11690 | Idea | Closed | Normal | Possible changes to CommandableFragmentGenerator methods and sample child classes | | 05/04/2016 03:10 PM |
| 11689 | Idea | Closed | Normal | Find and correct any places in the artdaq-demo documentation that don't have the artdaq/artdaq-core split correct. | John Freeman | 05/23/2016 09:54 AM |
| 11688 | Idea | Closed | Normal | Update the artdaq-demo to make the use of artdaq::Fragment and Overlays more clear | John Freeman | 05/23/2016 09:54 AM |
| 11536 | Idea | New | Normal | Remove rt_priority from BinaryMPIOutput_module? | | 01/13/2017 03:52 PM |
| 10600 | Idea | Closed | Normal | Store the configurations of each artdaq process in the art/ROOT data file(s) | John Freeman | 05/22/2017 08:37 AM |
| 8892 | Idea | Closed | Normal | Reduce the data-dependence of our metrics reporting | Eric Flumerfelt | 01/27/2018 12:32 PM |
| 7917 | Idea | Closed | Normal | Triggered Board Reader: A Board Reader that only sends fragments upon request | Eric Flumerfelt | 05/23/2016 10:35 AM |
| 7658 | Idea | Closed | Normal | Look into using messages between BoardReaders as a way to trigger readout | | 05/23/2016 10:35 AM |
| 7245 | Idea | Closed | Normal | Investigate whether we can use an MPI_Barrier to synchronize BoardReaders with a newer version of MPI | Kurt Biery | 05/23/2016 10:24 AM |
| 7244 | Idea | Closed | Normal | Create a reusable UDP FragmentGenerator | Eric Flumerfelt | 05/23/2016 10:23 AM |
| 6793 | Idea | New | Normal | Think about ways to read data from front-ends and discard it between runs | | 01/13/2017 04:04 PM |
| 6782 | Idea | Closed | Normal | [LBNE, Mu2e] Investigate ways to provide a two-stage artdaq system | | 10/18/2019 02:56 PM |

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| 6256 | Idea | Closed | Normal | Separate the existing artdaq code into multiple packages | Kurt Biery | 07/28/2014 11:29 AM |
| 6166 | Idea | Closed | Normal | Think about ways to incorporate an external request to the EventBuilders for a specific time window | Eric Flumerfelt | 01/11/2017 10:20 AM |
| 6093 | Idea | Closed | Normal | Document our recommendations for versioning of overlays, etc. | | 01/27/2018 12:29 PM |
| 6000 | Idea | Rejected | Normal | Port the BoardReader code to the RCE | | 10/18/2019 02:55 PM |
| 5999 | Idea | New | Normal | Investigate the possibility of running compression, etc. in a BoardReader | | 01/13/2017 04:15 PM |
| 5994 | Idea | Assigned | Normal | Investigate the possibility of using DDS from RTI for data transfers | John Freeman | 01/13/2017 04:15 PM |
| 5989 | Idea | New | Normal | Remote monitoring and control recommendations | | 01/13/2017 04:32 PM |
| 5988 | Idea | Closed | Normal | Provide sample run history tracking | | 01/13/2017 04:33 PM |
| 5986 | Idea | Closed | Normal | Investigate whether we can support graceful loss of a small number of EventBuilders | | 03/21/2019 11:34 AM |
| 5985 | Idea | Rejected | Normal | Redesign the model that is used to provide events to online monitoring | | 01/13/2017 04:46 PM |
| 5983 | Idea | Closed | Normal | Provide centralized message logging | | 05/23/2016 10:23 AM |
| 5982 | Idea | Closed | Normal | Provide general-purpose configuration management tools and infrastructure | | 01/13/2017 04:35 PM |
| 5981 | Idea | Closed | Normal | Provide general-purpose Run Control functionality | | 05/22/2017 12:04 PM |
| 5979 | Idea | Closed | Normal | Provide DAQ monitoring similar to what is done with Ganglia for NOvA DAQ | Kurt Biery | 05/23/2016 12:22 PM |
| 5976 | Idea | New | Normal | Provide graphical monitoring that shows the state of all of the buffers and queues in the system | | 02/10/2017 01:07 PM |
| 5961 | Idea | Closed | Normal | Coordinate the requested changes to art for an online environment | | 01/27/2018 12:25 PM |
| 5948 | Idea | Closed | Normal | Investigate the buffering that MPI provides and update the system to minimize any hidden buffering | Kurt Biery | 05/23/2016 10:23 AM |
| 5304 | Idea | Closed | Normal | Handle run-based and spill-based data | | 01/27/2018 12:20 PM |