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