# artdaq

| | 2021-3 | | | | 2021-4 | | | | | 2021-5 | | | | 2021-6 | | | | 2021-7 | | | | | 2021-8 | | | |
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| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| artdaq | | artdaq | | | | | | | | | | | | | | | | | | | | | | | | |
| Add fragment ID checking to some combination (...) | | Resolved | | | | | | | | | | | | | | | | | | | | | | | | |
| Incorporate control of the Linux system fsync (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| The Aggregator runs slower when event grouping (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Implement the "report" functionality infrastructure | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Provide a way to determine the allowed transitions (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Remote monitoring and control recommendations | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Investigate the possibility of using DDS (...) | | Assigned | | | | | | | | | | | | | | | | | | | | | | | | |
| Investigate the possibility of running compression, (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Investigate whether FragmentGenerator state (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Think about ways to read data from front-ends (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Develop test procedures and documents for (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Document development procedures for SQA | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Add documentation for basic operation and (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Add functionality and tools to artdaq for (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Audit all messages produced by artdaq during (...) | | New 67% | | | | | | | | | | | | | | | | | | | | | | | | |
| create message logging best practices | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Remove rt_priority from BinaryMPIOutput_module? | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Create an artdaq-skeleton (and probably artdaq-core-skeleton) (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Investigation: max disk-writing rate with (...) | | Assigned | | | | | | | | | | | | | | | | | | | | | | | | |
| Setting alignment and padding defaults of (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| To prevent 100% CPU usage by fragment generators, (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Implement fadvise dont need for ROOT data (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| request packaging of EPICS BASE, EPICS CSS, (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| TransferInput should check for dispatcher (...) | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Sync message in TCPSocketTransfer | | New | | | | | | | | | | | | | | | | | | | | | | | | |
| Routing Master takes a long time (forever?) (...) | | Remission | | | | | | | | | | | | | | | | | | | | | | | | |
| Issue du jour #1 at protoDUNE, 17-Jul-2018: (...) | | Resolved | | | | | | | | | | | | | | | | | | | | | | | | |

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| Issue du jour #2 at protoDUNE, 17-Jul-2018: (...) | Resolved |
| Issue du jour #3 at protoDUNE, 17-Jul-2018: (...) | Resolved |
| Issue du jour #4 at protoDUNE, 17-Jul-2018: (...) | Remission |
| EB crash at protoDUNE | Resolved |
| BoardReader intermittent crash at endrun | New |
| Improve the speed of the configuration step | New |
| SBND Vertical Slice test | New |
| run tests and improve the system so we can (...) | New |
| write data files directly from event builders | Resolved |
| enable trigger inhibiting at protoDUNE | Resolved |
| At protoDUNE, either turn off core dumps (...) | Work in progress |
| Should we start bundling rgang with artdaq (...) | New |
| Failed to connect to shared memory segment (...) | New |
| Dispatcher connection issues can prevent (...) | New |
| OnlineMonitoring reports timeouts while reading (...) | Work in progress |
| Help investigate FELIX BoardReader metric (...) | New |
| Add external controlling functionality to (...) | Assigned |
| EventRate and EventSize metrics don't update (...) | New |
| Notes from protoDUNE Slack channel, 19-Jul-2018 | New |
| zero length core file on terminate | New |
| SBND VST - subrun change from fragment generator (...) | New |
| NetMonOutput (?) should consider an empty (...) | New |
| run_demo.sh gets inconsistent results for (...) | New |
| run_demo (and presumably just_do_it) should (...) | New |
| Something set all of my requested trace levels (...) | New |
| Create one or more simple_test_configs that (...) | Work in progress |
| Create a simple hex-dump tool (art module) (...) | New |
| Redesign the use of sequence IDs so that (...) | New |
| Oversee and/or contribute to the transfer (...) | Work in progress |
| Provide support for protoDUNE DAQ | New |
| Error messages say that "use_data_thread" (...) | New |
| EventBuilders stop dataflow when there is (...) | New |
| System behaving unexpectedly when there are (...) | Resolved |
| Investigate where the art process is spending (...) | New |

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| Help implement 4-digit zero padding of the (...) | Resolved |
| Improve the organization of the Run Configurations (...) | Work in progress |
| Revisit the model for supporting developer (...) | Work in progress |
| Can we provide assistance in defining or (...) | New |
| Create UPS produce for jsoncpp | Resolved |
| Daily call with Giovanna and Karol | Work in progress |
| Assist in the rollout of the metadata art (...) | Assigned |
| {art-related} When writing data from EventBuilders (...) | New |
| When I accidentally try to import a configuration (...) | New |
| Evaluate the shared memory interplay between (...) | New |
| Look for redesign opportunities to remove (...) | New |
| Look into redesign possibilities to avoid (...) | New |
| Think about whether EBs sending requests (...) | New |
| Re-examine the handling of subrun rollover (...) | New |
| Clean up the specification of max fragment (...) | Resolved |
| ZMQ connection_out parameter for timing/Felix (...) | Resolved |
| Think about ways to support different configuration (...) | New |
| Collaborate with UK folks on an in-memory (...) | New |
| Discuss/confirm the order of transition commands (...) | New |
| Summary of EventBuilder crashes at protoDUNE (...) | New |
| Check with our art collegues on the progress (...) | Work in progress |
| Develop a plan for incorporating Inhibit (...) | New |
| Disable warning messages in the mongoc driver | Resolved |
| High CPU usage in Boardreaders during the (...) | Remission |
| Exception when trying to stop the program: (...) | New |
| Add the "--print-description" option to DAQ (...) | New |
| Add support for "#includes" before PROLOGs (...) | New |
| Create and test a candidate release targeted (...) | Resolved |
| Create a script or tool to set up the latest (...) | New |
| fragment overruns | New |
| EB crash at protoDUNE in run 3032 | New |
| Dispatcher shared memory segments left after (...) | New |
| transfer_driver_shmem_multi_t doesn't test (...) | New |
| EB terminate crash | Resolved |

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| transfer_driver tests fail in pdune_ron_Aug01 | Resolved |
| Status monitoring display | Work in progress |
| Bookkeep max_event_size_bytes to reflect (...) | Assigned |
| Have DAQInterface set the max fragment size (...) | Resolved |
| Assist in the setup of the DUNE cold electronics (...) | Work in progress |
| Assist in the setup of an artdaq-database (...) | Resolved |
| There are reports of DAQInterface taking (...) | Resolved |
| Generic implementation of interrupt/timeout (...) | New |
| Archiving time on the protoDUNE cluster should (...) | New |
| Improve the error reporting from conftool.py | New |
| rgang trace tools | New |
| daqinterface, when recovery is disabled, (...) | New |
| EventBuilder crash pdune_Aug20A | New |
| Remove BR Sync Metric | Resolved |
| More information from RoutingMasterCore | Resolved |
| Add Event Building Time metric | Resolved |
| TRACE metric output | Resolved |
| RoutingMaster learns data rate and adjusts (...) | New |
| Fix obviously-wrong values reported by "Request (...) | Resolved |
| run_demo.sh | New |
| run_demo.sh defaults to partition 0 in quick-mrb-start.sh | New |
| Annotate artdaq database with doxygen tags. | New |
| Freeze TRACE buffer when SharedMemoryManager (...) | Resolved |
| More useful Routing Wait Time metric in DataSenderManager | Resolved |
| Fix manual_mode for mu2e art process perfing | Resolved |
| Rename "Incomplete" events in SMEM | Resolved |
| metric_pset initialization in Cores | Resolved |
| On protoDUNE cluster, BuildInfo saves build (...) | Resolved |
| Process for managing Online Monitors | New |
| A simple-test-config that has configure-only (...) | New |
| Create a Null_generator CommandableFragmentGenerator | New |
| Limit DataLoggers to one art process | New |
| Make Shared Memory Transfer timeouts configurable | Resolved |
| RoutingMaster should always send up-to-date (...) | New |

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| A script should be made available where it's (...) | New |
| make SharedMemoryManager more maintainable (...) | New |
| Notes on where data logging (art) processes (...) | Assigned |
| Notes from testing the killing of an EB process (...) | Assigned |
| Provide rank and app_name variables to metric (...) | Resolved |
| Dynamic display of event contents in WFViewer | Resolved |
| Continue to investigate protoDUNE DAQ issues (...) | Assigned |
| More/Better output from TransferDriver when (...) | Resolved |
| BoardReader memory usage increases with using (...) | Resolved |
| Get handle to Fragment Generator for otsdaq | Resolved |
| daqinterface starting multiple msgviewer (...) | Resolved |
| run_demo.sh partitioning issue again | New |
| DAQInterface "direct" mode leaves stale processes | New |
| revisit 17393 - changes made to artdaq/ArtModules/RootDAQOutput/RootDAQOut_module.cc | Reviewed |
| Allow experiments to put certain Fragments (...) | New |
| Add tests for RoutingMasterCore | Resolved |
| Make requests that have InvalidTimestamp (...) | Resolved |
| Support the (proto)DUNE DFO Model in artdaq | New |
| Add destination parameter to DSM::sendFragment | Assigned |
| Add acknowledgements to Request protocol | Resolved |
| Change signature of CommandableFragmentGenerator::getNext | Assigned |
| RoutingNetOutput plugin: A version of (...) | New |
| Update RequestReciever's interface | Resolved |
| Merge and test individual changes from develop (...) | Assigned |
| Add additional unit tests for RequestMessage.hh | Resolved |
| Filesystem transfer plugin | New |
| Process a run_records directory and generate (...) | New |
| DAQInterface makes inappropriate assumptions (...) | Reviewed |
| configure separate stdout/err (console) log (...) | New |
| Welcome message and output compilation date (...) | Resolved |
| Observations from attempting to install and (...) | New |
| The number of EB buffers seems to affect (...) | New |
| Develop infrastructure for sending ZeroMQ (...) | New |
| Add reporting of fragment IDs for missing (...) | Assigned |

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| Test upgrade of old RawFragmentHeader versions | Resolved |
| Support for MPI transfers in artdaq v3 | New |
| In-place allocation of ContainerFragment (...) | Resolved |
| artdaq boot sequence takes significant time (...) | New |
| Allow users more control of MetricPlugin (...) | New |
| Dynamic reconfiguration of EventBuilder sources | New |
| Create plugin type for CommandableFragmentGenerator (...) | New |
| Handle full disk in output modules | New |
| Improve back-pressure reporting | New |
| Occasional issue running ascii_simulator_example (...) | New |
| Online Monitor art processes disconnect after (...) | New |
| Look into possible performance improvements (...) | New |
| Use ExceptionHandler in xmlrpc_commander | New |
| documentation bug - QuickVec alignment should (...) | Reviewed |
| Use new[] with align parameter in QuickVec (...) | New |
| SharedMemory Output for art process | Resolved |
| Routing Improvements | Resolved |
| Raise Visibility of tcp_receive_buffer_size (...) | New |
| bug/feature - canvas mf::LogDebug message (...) | New |
| Include links to detailed information in (...) | New |
| Performance concerns in FragmentBuffer | New |
| Investigate moving away from smc_compiler | New |
| Improved TRACE logging in FragmentBuffer | Resolved |
| Race condition in SharedMemoryEventManager (...) | Reviewed |
| Segfault in TCPSocket_transfer during shutdown | New |
| Dispatcher art process often gets terminated | New |
| artdaq - artdaq Next Release | artdaq Next Release 50% |
| Dispatcher fails to receive any events (...) | Assigned |
| UPS dependency conflicts | Resolved |
| artdaq Demo | artdaq Demo |
| ~/.setup_fhiclcpp potential/actual problem | Resolved |
| No-pull mode for quick-mrb-start.sh | Resolved |
| Option to run_integration_tests.sh to (...) | Resolved |
| artdaq Utilities | artdaq Utilities |

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| Provide graphical monitoring that shows (...) | New |
| Implement the transition scripts called (...) | Resolved |
| Create JCOP Metric Plugin | Work in progress |
| Improve error handling in DAQInterface | Resolved |
| daqinterface fails to boot the system (...) | Resolved |
| It might be helpful for daqinterface (...) | Resolved |
| Include scripts to help determine correct (...) | New |
| Improved handling of messageviewer by (...) | New |
| Provide an option to DAQInterface in (...) | Resolved |
| Get DAQInterface to automatically launch (...) | Resolved |
| Have the DAQInterface configuration (...) | Resolved |
| Allow users to specify startup order (...) | Resolved |
| Make it easier to launch online monitoring (...) | New |
| Modify DAQInterface so it can work as (...) | Resolved |
| Place a limit on the number of MessageFacility (...) | Resolved |
| Support for running multiple DAQInterfaces (...) | Resolved |
| DAQInterface settings file should allow (...) | Resolved |
| Minor issue in performing bookkeeping (...) | Resolved |
| FHiCL assignments that have names like (...) | Resolved |
| Multiple fileName parameter definitions (...) | Resolved |
| Specify multicast network in boot.txt... | Resolved |
| DAQInterface appears to leak file descriptors | Resolved |
| DAQInterface should save the per-run (...) | Resolved |
| DAQInterface should be able to place (...) | Resolved |
| On run start and stop, DAQInterface (...) | Resolved |
| On protoDUNE, DAQInterface should take (...) | Resolved |
| DAQInterface's requirement that a boardreader (...) | Resolved |
| DAQInterface creates malformed FHiCL (...) | Resolved |
| Use report_metric in demo simple_test_config | Resolved |
| Message Viewer not showing up in demo (...) | Resolved |
| boot.txt files in simple_test_configs (...) | New |
| DAQInterface should support multiple (...) | Resolved |
| DAQInterface should decouple the routingmaster (...) | Resolved |
| DAQInterface should be able to launch (...) | Resolved |

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| PMT Host != localhost fails to boot | New |
| A set of subconfigurations which realistically (...) | Resolved |
| DAQInterface should support the concept (...) | Resolved |
| DAQInterface should have per-partition (...) | Resolved |
| DAQInterface product unsetup attempt (...) | Resolved |
| max_fragment_size_bytes in the settings (...) | Resolved |
| Build script for packages | Resolved |
| DAQInterface's memory management should (...) | Resolved |
| Support hexadecimal values in settings_example | Resolved |
| DAQInterface advanced memory usage seems (...) | New |
| It should be possible to tell DAQInterface (...) | Resolved |
| It should be possible to recover details (...) | Resolved |
| DAQInterface should treat process Error (...) | Resolved |
| If just_do_it.sh can't perform a transition, (...) | Resolved |
| Add a subconfiguration which contains (...) | Resolved |
| eventbuilder_diskwriting and combined_eb_and_el (...) | Reviewed |
| If a process dies or enters an error (...) | Reviewed |
| DAQInterface should algorithmically (...) | Reviewed |
| DAQInterface should allow for messagefacility (...) | Reviewed |
| Please add artdaq_daqinterface support (...) | Reviewed |
| Can the ProtoDUNE variant of DAQInterface (...) | Reviewed |
| DAQInterface should handle SIGHUP, SIGTERM, (...) | Reviewed |
| DAQInterface v3_04_00 has problems saving (...) | Reviewed |
| DAQInterface should have a "help" option | Reviewed |
| The use of a RoutingMaster in an artdaq (...) | Reviewed |
| have daqinterface support the specification (...) | Reviewed |
| When a partition has never been run (...) | Reviewed |
| Revise misleading documentation in MetricPlugin.hh | Resolved |
| DAQInterface should allow for a child (...) | Reviewed |
| Bookkeeping changes for allowing multiple (...) | New |
| file metrics data dir -- default for (...) | Resolved |
| DAQInterface makes inappropriate assumptions (...) | Reviewed |
| DAQInterface should handle situations (...) | Reviewed |
| DAQInterface should provide a hook to (...) | Reviewed |

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| DAQInterface bookkeeping should only (...) | Reviewed |
| add metric_name to metric ctor to aid (...) | Resolved |
| daqinterface scripts should be able (...) | Reviewed |
| DAQInterface kills processes across (...) | Reviewed |
| DAQInterface could launch processes (...) | New |
| DAQInterface should support multiple (...) | Reviewed |
| DAQInterface should take advantage of (...) | Reviewed |
| DAQInterface could provide on-demand (...) | Reviewed |
| just_repeat_run.sh doesn't care what (...) | Reviewed |
| exception thrown when attempting to (...) | Reviewed |
| boot.fcl not correctly formed when user (...) | Reviewed |
| When creating boot.fcl, DAQInterface (...) | Reviewed |
| A convenience script could be provided (...) | Reviewed |
| DAQInterface should accept boot files (...) | Reviewed |
| DAQInterface should double-check its (...) | Reviewed |
| DAQInterface error handling fails for (...) | Reviewed |
| In the event of ssh problems, DAQInterface (...) | Reviewed |
| If there's an XML-RPC communication (...) | Reviewed |
| Possible issue with private-network (...) | Reviewed |
| Node.js server CRL issue | Resolved |
| Upgrade to Python 3 | New |
| Last archived run number | Work in progress |
| DAQInterface sometimes does not wait (...) | Reviewed |
| Support for non-scalar metric reporting | New |
| DAQInterface should be able to resurrect (...) | Resolved |
| Archive run_record_attempted | New |
| artdaq daq interface run sort based (...) | New |
| Can daqinterface log the ssh commands (...) | Resolved |
| Have DAQInterface save the launch_attempt (...) | Resolved |
| When a critical artdaq process dies (...) | Reviewed |
| Support "prepend" in boot.txt | Resolved |
| Upgrade mongoc and mongocxx drivers | New |
| DAQInterface should allow overriding (...) | Reviewed |
| Upgrade to Python 3 | New |

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| Update compressionLevel in simple_test_config | New |
| artdaq Utilities - artdaq_daqinterface (...) | artdaq Utilities -artdaq_daqinterface v3_03_01 85% |
| Add support for the RootDAQOut (...) | Resolved |
| Remove deprecated simple_test_configs | Resolved |
| DAQInterface should support fragment (...) | Resolved |
| In protoDUNE metadata, DAQInterface (...) | Resolved |
| In DAQInterface, deepsuppression (...) | Resolved |
| It should be possible to repeat (...) | Resolved |
| artdaq-mfextensions | artdaq-mfextensions |
| Qt event system leads to recursive lock (...) | New |