

## Unassigned Issues

| #  | Project                             | Tracker               | Status           | Subject   | Author          | Updated             |
|--|-------------------------------------|-----------------------|------------------|---|-----------------|---------------------|
| <b>3.9 GHz Cryomodule testing (1)</b>          |                                     |                       |                  |   |                 |                     |
| 23986  | 3.9 GHz Cryomodule testing          | Bug                   | New              | Low Level RF Drive Power                                  | Brian Chase     | 02/02/2020 07:40 PM |
| <b>ACNET Service (3)</b>                       |                                     |                       |                  |   |                 |                     |
| 15180  | ACNET Service                       | Feature               | New              | Need an easy way to kill TCP clients' connections         | Richard Neswold | 01/18/2017 10:39 AM |
| 16707  | ACNET Service                       | Feature               | New              | Find an alternate to 'nodesd'                             | Richard Neswold | 05/30/2017 10:53 AM |
| 14368  | ACNET Service                       | Bug                   | Closed           | acnetd is frequently reporting QUEUE_FULL on idle clients | Richard Neswold | 11/03/2016 10:44 AM |
| <b>AD Controls Department (5)</b>              |                                     |                       |                  |   |                 |                     |
| 24157  | AD Controls Department              | Idea                  | New              | Time Series Database                                      | Beau Harrison   | 03/09/2020 04:58 PM |
| 24153  | AD Controls Department              | Idea                  | New              | Device Scaling Transforms Audit                           | Beau Harrison   | 03/09/2020 12:30 PM |
| 24152  | AD Controls Department              | Feature               | New              | Conditional Alarm States                                  | Beau Harrison   | 03/09/2020 10:24 AM |
| 24156  | AD Controls Department              | Bug                   | New              | Bursts of State Changes                                   | Beau Harrison   | 03/09/2020 04:55 PM |
| 20111  | AD Controls Department              | Feature               | Work in progress | Add clock type to event specification                     | Richard Neswold | 06/07/2018 10:44 AM |
| <b>AD ESH Department, Interlocks Group (9)</b> |                                     |                       |                  |   |                 |                     |
| 21839  | AD ESH Department, Interlocks Group | Support               | New              | XWindows Support is Fading                                | Beau Harrison   | 02/05/2019 08:37 AM |
| 21840  | AD ESH Department, Interlocks Group | Feature               | New              | Unified LEPR/PLC Protocol                                 | Beau Harrison   | 02/05/2019 08:42 AM |
| 21852  | AD ESH Department, Interlocks Group | Feature               | New              | SVG to ApeMan   | Beau Harrison   | 02/06/2019 09:55 AM |
| 21836  | AD ESH Department, Interlocks Group | Necessary Maintenance | New              | Scientific Linux 6 End of Life                            | Beau Harrison   | 02/05/2019 08:26 AM |
| 21842  | AD ESH Department, Interlocks Group | Feature               | New              | RS-485 Protocol   | Beau Harrison   | 02/06/2019 10:03 AM |
| 21838  | AD ESH Department, Interlocks Group | Idea                  | New              | Remove Shared Memory Model                                | Beau Harrison   | 02/05/2019 08:34 AM |
| 21853  | AD ESH Department, Interlocks Group | Feature               | New              | OPC-UA Client   | Beau Harrison   | 02/06/2019 10:03 AM |
| 21841  | AD ESH Department, Interlocks Group | Necessary Maintenance | New              | LEPR Upgrade  | Beau Harrison   | 02/05/2019 09:17 AM |
| 21837  | AD ESH Department, Interlocks Group | Feature               | New              | Failure Transparency                                      | Beau Harrison   | 02/05/2019 08:29 AM |
| <b>adinstbpm (20)</b>                          |                                     |                       |                  |   |                 |                     |

| #     | Project   | Tracker   | Status   | Subject  | Author       | Updated             |
|-------|-----------|-----------|----------|--|--------------|---------------------|
| 18197 | adinstbpm | Bug       | New      | Why do soft reboots sometime hang?   | John Diamond | 11/10/2017 10:14 AM |
| 20450 | adinstbpm | Bug       | New      | The number of samples argument to bpmcli dump does not respect multiple bunches  | John Diamond | 07/25/2018 03:47 PM |
| 20666 | adinstbpm | Task      | New      | TCLK-driven arm and TBT readout for IOTA   | John Diamond | 08/22/2018 09:33 PM |
| 22556 | adinstbpm | Milestone | New      | Support rack-mount server architecture   | John Diamond | 06/14/2019 02:11 PM |
| 20665 | adinstbpm | Task      | New      | Support multiple sets of coefficients for 2-D fits   | John Diamond | 08/22/2018 08:51 PM |
| 18435 | adinstbpm | Milestone | New      | Support for GigE ADCs  | John Diamond | 11/30/2017 09:35 AM |
| 23334 | adinstbpm | Bug       | New      | Review request [commit:9d6fb8c32be2b760ee703095242308551c178991: Removed commented syslog(..) calls that where replaced with TRACE.] | John Diamond | 09/25/2019 03:06 PM |
| 18047 | adinstbpm | Task      | New      | Refactor bpmcli 'help' command to be a CLICCommand   | John Diamond | 10/26/2017 04:24 PM |
| 18046 | adinstbpm | Task      | New      | Refactor bpmcli 'dump_flash_history' command to be a CLICCommand   | John Diamond | 10/26/2017 04:23 PM |
| 22493 | adinstbpm | Milestone | New      | PIP2IT BPM Project   | John Diamond | 12/10/2019 08:00 AM |
| 20350 | adinstbpm | Milestone | New      | IOTA BPM deployment  | John Diamond | 10/17/2018 10:57 AM |
| 19607 | adinstbpm | Milestone | New      | IOTA ACNET Interface   | John Diamond | 10/17/2018 10:57 AM |
| 20355 | adinstbpm | Milestone | New      | Deploy IOTA BPM hardware   | John Diamond | 08/22/2018 09:28 PM |
| 20551 | adinstbpm | Task      | New      | BPM-level delay configuration  | John Diamond | 08/07/2018 02:38 PM |
| 19850 | adinstbpm | Milestone | New      | BPM Diagnostics Application  | John Diamond | 05/02/2018 09:28 AM |
| 20682 | adinstbpm | Task      | New      | bpmd.config for BBPL15   | John Diamond | 08/26/2018 02:41 PM |
| 20681 | adinstbpm | Task      | New      | bpmd.conf for BBPL15   | John Diamond | 08/26/2018 02:41 PM |
| 17719 | adinstbpm | Milestone | New      | Booster operational test of one crate alongside existing BPM system  | John Diamond | 12/29/2017 11:08 AM |
| 23736 | adinstbpm | Milestone | Closed   | IOTA ACNET Interface Change Requests Dec 2019  | John Diamond | 04/08/2020 12:39 PM |
| 17746 | adinstbpm | Bug       | Rejected | Segfault every other time Acsys is restart   | John Diamond | 10/18/2017 08:19 PM |

### ADMIN (3)

|       |       |         |        |   |                |                     |
|-------|-------|---------|--------|---|----------------|---------------------|
| 10921 | ADMIN | Support | New    | ND DCS, DAQ, and Timing web pages all run on nusoft space | Alec Habig     | 11/12/2015 01:16 PM |
| 7843  | ADMIN | Support | New    | Minos FY 2015 SPPM resource spreadsheet                   | Arthur Kreymer | 02/12/2015 10:56 AM |
| 9332  | ADMIN | Bug     | Closed | Can't open TBrowser in root on minos60                    | Thomas Carroll | 09/17/2020 05:28 PM |

### AdministrationOfCloudServices (29)

|       |                               |         |        |   |             |                     |
|-------|-------------------------------|---------|--------|---|-------------|---------------------|
| 12135 | AdministrationOfCloudServices | Bug     | Closed | why does step2 fail sometimes                           | Steven Timm | 05/09/2018 09:29 PM |
| 12127 | AdministrationOfCloudServices | Feature | Closed | Unit test on completed AMI                              | Steven Timm | 05/09/2018 09:33 PM |
| 12122 | AdministrationOfCloudServices | Task    | Closed | Unified Route 53 address across all AWS?                | Steven Timm | 05/09/2018 09:35 PM |
| 12134 | AdministrationOfCloudServices | Task    | Closed | Test. D. Dykstra work with VPC endpoints                | Steven Timm | 05/09/2018 09:30 PM |
| 12123 | AdministrationOfCloudServices | Task    | Closed | squid servers: tune ELB scale up / scale down levels    | Steven Timm | 05/09/2018 09:34 PM |
| 12116 | AdministrationOfCloudServices | Task    | Closed | Squid server configuration doesn't match partition size | Steven Timm | 05/09/2018 09:37 PM |

| #     | Project                       | Tracker | Status | Subject   | Author      | Updated             |
|-------|-------------------------------|---------|--------|---|-------------|---------------------|
| 12129 | AdministrationOfCloudServices | Task    | Closed | See if HTCondor can override storage on existing AMI's  | Steven Timm | 05/09/2018 09:32 PM |
| 12118 | AdministrationOfCloudServices | Task    | Closed | Script the process of reconfiguring default SG  | Steven Timm | 05/09/2018 09:36 PM |
| 12126 | AdministrationOfCloudServices | Feature | Closed | script cleanup of old AMI's   | Steven Timm | 05/09/2018 09:33 PM |
| 12119 | AdministrationOfCloudServices | Task    | Closed | Put hook in decision engine to detect whether on-demand services are running, and launch them if necessary, and not send out jobs until they are up | Steven Timm | 05/09/2018 09:36 PM |
| 12581 | AdministrationOfCloudServices | Task    | Closed | Need to automate AWS key rotation   | Steven Timm | 12/01/2017 04:38 PM |
| 12132 | AdministrationOfCloudServices | Task    | Closed | Move current imaging processes to run on bare metal machines  | Steven Timm | 05/09/2018 09:31 PM |
| 14029 | AdministrationOfCloudServices | Task    | Closed | Monitoring: Make a Google Gratia probe  | Steven Timm | 05/09/2018 09:20 PM |
| 12117 | AdministrationOfCloudServices | Task    | Closed | Make a script to create the Squid-SG security group   | Steven Timm | 05/09/2018 09:37 PM |
| 12584 | AdministrationOfCloudServices | Task    | Closed | Make a hot zone map of where VM's are running and how much we are paying  | Steven Timm | 05/09/2018 09:26 PM |
| 12586 | AdministrationOfCloudServices | Task    | Closed | Limit IP's from which people can contact AWS  | Steven Timm | 03/02/2018 08:41 PM |
| 12568 | AdministrationOfCloudServices | Task    | Closed | Investigate why we make 2 snapshots   | Steven Timm | 05/09/2018 09:29 PM |
| 12120 | AdministrationOfCloudServices | Task    | Closed | Investigate route 53 configuration  | Steven Timm | 05/09/2018 09:36 PM |
| 12121 | AdministrationOfCloudServices | Task    | Closed | How to detect existing default VPC, subnets, default SG   | Steven Timm | 05/09/2018 09:35 PM |
| 12583 | AdministrationOfCloudServices | Task    | Closed | Get the hep cloud user to be able to launch vm's only with S3_Allow_Upload_Download role  | Steven Timm | 05/09/2018 09:26 PM |
| 12113 | AdministrationOfCloudServices | Task    | Closed | Get On-Demand Services to launch the cloudformation task with roles and special purpose user  | Steven Timm | 05/09/2018 09:39 PM |
| 12587 | AdministrationOfCloudServices | Task    | Closed | figure out how to test full VM workload without glideinWMS and how to split glideinwms payload so we can use cloud-init                             | Steven Timm | 05/09/2018 09:25 PM |
| 12130 | AdministrationOfCloudServices | Task    | Closed | Disable auto-yum updates in AWS images  | Steven Timm | 05/09/2018 09:31 PM |
| 15812 | AdministrationOfCloudServices | Feature | Closed | Develop Auto-launch to launch the squid stacks on various AWS zones when needed.  | Steven Timm | 05/09/2018 03:11 PM |
| 12115 | AdministrationOfCloudServices | Task    | Closed | Complete testing of D. Dykstra ELB-free squid   | Steven Timm | 05/09/2018 09:38 PM |
| 12133 | AdministrationOfCloudServices | Task    | Closed | Clean crud out of step1 image (fefimage-slf6-base)  | Steven Timm | 05/09/2018 09:30 PM |
| 14045 | AdministrationOfCloudServices | Task    | Closed | Can decision engine condor_off -peaceful glideins in hot (expensive zones)  | Steven Timm | 05/09/2018 09:18 PM |
| 12125 | AdministrationOfCloudServices | Feature | Closed | Add version tracking and change log   | Steven Timm | 05/09/2018 09:34 PM |
| 12124 | AdministrationOfCloudServices | Feature | Closed | Add mechanism to automatically update ami's in the various configurations   | Steven Timm | 05/09/2018 09:34 PM |

### Aged Password Detector (1)

|     |                        |     |     |                                       |             |                     |
|-----|------------------------|-----|-----|---------------------------------------|-------------|---------------------|
| 359 | Aged Password Detector | Bug | New | Accommodate new Password_overdue view | Randy Reitz | 03/15/2010 01:24 PM |
|-----|------------------------|-----|-----|---------------------------------------|-------------|---------------------|

### AI-for-Accelerators (39)

|       |                     |      |     |   |                |                     |
|-------|---------------------|------|-----|---|----------------|---------------------|
| 22844 | AI-for-Accelerators | Task | New | Understand required number of ops / computations / resources (what are the metrics and how do we decide?) | Gabriel Perdue | 06/28/2019 04:40 PM |
|-------|---------------------|------|-----|---|----------------|---------------------|

| #     | Project             | Tracker   | Status | Subject   | Author         | Updated             |
|-------|---------------------|-----------|--------|---|----------------|---------------------|
| 22841 | AI-for-Accelerators | Task      | New    | Understand input bandwidth requirements   | Gabriel Perdue | 06/28/2019 04:39 PM |
| 22943 | AI-for-Accelerators | Task      | New    | Training mechanism validation   | Gabriel Perdue | 07/15/2019 04:20 PM |
| 22834 | AI-for-Accelerators | Task      | New    | Train agent, iterating on different reinforcement learning paradigms and algorithms as needed   | Gabriel Perdue | 06/27/2019 04:25 PM |
| 22832 | AI-for-Accelerators | Task      | New    | Train agent, iterating on different reinforcement learning paradigms and algorithms as needed   | Gabriel Perdue | 06/27/2019 04:24 PM |
| 22840 | AI-for-Accelerators | Task      | New    | Test full workflow with boards on-hand  | Gabriel Perdue | 06/28/2019 04:38 PM |
| 22839 | AI-for-Accelerators | Milestone | New    | Test algorithm implementation on hardware with hls4ml   | Gabriel Perdue | 06/28/2019 04:40 PM |
| 22792 | AI-for-Accelerators | Task      | New    | Set up long-term storage mechanism for data products  | Gabriel Perdue | 06/20/2019 04:44 PM |
| 22921 | AI-for-Accelerators | Task      | New    | Refine long-term storage estimates  | Gabriel Perdue | 07/11/2019 01:40 PM |
| 22920 | AI-for-Accelerators | Task      | New    | Refine list of required devices and catalogers  | Gabriel Perdue | 07/11/2019 01:39 PM |
| 22948 | AI-for-Accelerators | Milestone | New    | Project finalization  | Gabriel Perdue | 07/15/2019 04:23 PM |
| 22947 | AI-for-Accelerators | Milestone | New    | Project extension exploration, part 1   | Gabriel Perdue | 07/15/2019 04:22 PM |
| 22801 | AI-for-Accelerators | Task      | New    | Investigate TF-Agents, home-brew systems  | Gabriel Perdue | 06/21/2019 11:43 AM |
| 22933 | AI-for-Accelerators | Task      | New    | Investigate deployment to PC for "slow" inference and training  | Gabriel Perdue | 07/12/2019 03:17 PM |
| 22934 | AI-for-Accelerators | Task      | New    | Implement agent based on training to the current system with historical data on a PC (board?) in the hall that can communicate with the real GMPS | Gabriel Perdue | 07/12/2019 03:18 PM |
| 22942 | AI-for-Accelerators | Milestone | New    | Historical agent  | Gabriel Perdue | 07/15/2019 04:19 PM |
| 22922 | AI-for-Accelerators | Milestone | New    | Hall work part 1  | Gabriel Perdue | 07/11/2019 01:42 PM |
| 22790 | AI-for-Accelerators | Feature   | New    | Full current set data readout and storage   | Gabriel Perdue | 06/20/2019 04:41 PM |
| 22937 | AI-for-Accelerators | Task      | New    | Finalize long-term storage estimates and required storage horizons  | Gabriel Perdue | 07/12/2019 03:20 PM |
| 22936 | AI-for-Accelerators | Task      | New    | Finalize list of required devices and catalogers  | Gabriel Perdue | 07/12/2019 03:19 PM |
| 22793 | AI-for-Accelerators | Task      | New    | Estimate storage requirements over 1, 3, 6, 12 month timelines  | Gabriel Perdue | 06/20/2019 04:44 PM |
| 22923 | AI-for-Accelerators | Task      | New    | Establish a safe and ORC-allowed work area with a PC for slow interface with the current control system.  | Gabriel Perdue | 07/11/2019 01:42 PM |
| 22794 | AI-for-Accelerators | Feature   | New    | Develop solution for querying stored data   | Gabriel Perdue | 06/20/2019 04:45 PM |
| 22830 | AI-for-Accelerators | Task      | New    | Develop research plan for safe agent behavior   | Gabriel Perdue | 06/27/2019 04:22 PM |
| 22842 | AI-for-Accelerators | Task      | New    | Design ACNET input system for the board   | Gabriel Perdue | 06/28/2019 04:39 PM |
| 22944 | AI-for-Accelerators | Task      | New    | Demonstrate training based on data collection with the RL agent using manual re-flashes of the FPGA   | Gabriel Perdue | 07/15/2019 04:20 PM |
| 22945 | AI-for-Accelerators | Task      | New    | Demonstrate training based on data collection with the RL agent and automated re-flashes of the FPGA  | Gabriel Perdue | 07/15/2019 04:20 PM |
| 22946 | AI-for-Accelerators | Task      | New    | Demonstrate dynamic loading of weights without re-flashing the FPGA?  | Gabriel Perdue | 07/15/2019 04:21 PM |
| 22935 | AI-for-Accelerators | Task      | New    | Data products, part 3   | Gabriel Perdue | 07/12/2019 03:19 PM |
| 22918 | AI-for-Accelerators | Feature   | New    | Data products, part 2   | Gabriel Perdue | 07/11/2019 01:40 PM |

| #     | Project             | Tracker   | Status | Subject   | Author         | Updated             |
|-------|---------------------|-----------|--------|---|----------------|---------------------|
| 22787 | AI-for-Accelerators | Milestone | New    | Data Products, Part 1   | Gabriel Perdue | 06/20/2019 04:44 PM |
| 22791 | AI-for-Accelerators | Task      | New    | Create list of initial set of devices and dataloggers (ACNET)           | Gabriel Perdue | 06/20/2019 04:42 PM |
| 22799 | AI-for-Accelerators | Feature   | New    | Build offline training system   | Gabriel Perdue | 06/21/2019 11:44 AM |
| 22833 | AI-for-Accelerators | Feature   | New    | Build a "kick-started" candidate agent                                  | Gabriel Perdue | 06/27/2019 04:25 PM |
| 22831 | AI-for-Accelerators | Task      | New    | Build agent for training from historical data - mimic current algorithm | Gabriel Perdue | 06/27/2019 04:24 PM |
| 22800 | AI-for-Accelerators | Feature   | New    | Build a framework for agent deployment                                  | Gabriel Perdue | 06/21/2019 11:43 AM |
| 22802 | AI-for-Accelerators | Feature   | New    | Build a distributed training system for faster turnaround               | Gabriel Perdue | 06/21/2019 11:44 AM |
| 22829 | AI-for-Accelerators | Feature   | New    | Algorithm development, part 1   | Gabriel Perdue | 06/27/2019 04:25 PM |
| 22932 | AI-for-Accelerators | Milestone | New    | Algorithm development, part 2   | Gabriel Perdue | 07/12/2019 03:18 PM |

### ANL Up/Down Converter Builds 2020/2021 (1)

|       |  |      |     |  |               |                     |
|-------|--|------|-----|--|---------------|---------------------|
| 24853 | ANL Up/Down Converter Builds 2020/2021 | Task | New | Quotes and carts needed for Build of ANL Up/Downconverters | Daniel Klepec | 10/01/2020 10:16 AM |
|-------|--|------|-----|--|---------------|---------------------|

### ANNIE (2)

|       |       |                       |     |              |             |                     |
|-------|-------|-----------------------|-----|--------------|-------------|---------------------|
| 24079 | ANNIE | Necessary Maintenance | New | BNB Downtime | Emrah Tiras | 02/21/2020 10:57 AM |
| 24080 | ANNIE | Necessary Maintenance | New | BNB Downtime | Emrah Tiras | 02/21/2020 11:05 AM |

### ANNIE1-Assembly (21)

|       |                 |           |     |   |                  |                     |
|-------|-----------------|-----------|-----|---|------------------|---------------------|
| 8577  | ANNIE1-Assembly | Task      | New | Water fill                                    | Matthew Wetstein | 01/25/2018 07:11 AM |
| 11079 | ANNIE1-Assembly | Task      | New | Spot testing of PMTs                          | Matthew Wetstein | 04/06/2016 11:05 PM |
| 11089 | ANNIE1-Assembly | Task      | New | Set up water skid and recirculation system    | Matthew Wetstein | 01/25/2018 07:20 AM |
| 11096 | ANNIE1-Assembly | Milestone | New | Prelim ORC inspection                         | Matthew Wetstein | 04/06/2016 11:12 PM |
| 11081 | ANNIE1-Assembly | Task      | New | Practice lower inner structure into tank      | Matthew Wetstein | 04/06/2016 11:06 PM |
| 11095 | ANNIE1-Assembly | Task      | New | Populate Crates in Hall                       | Matthew Wetstein | 04/06/2016 11:06 PM |
| 11090 | ANNIE1-Assembly | Task      | New | PMT cabling and shipping                      | Matthew Wetstein | 04/06/2016 11:05 PM |
| 11085 | ANNIE1-Assembly | Milestone | New | NCV shipped to FNAL                           | Matthew Wetstein | 04/06/2016 11:08 PM |
| 11093 | ANNIE1-Assembly | Task      | New | Modify top of tank, add round offs            | Matthew Wetstein | 01/12/2016 02:36 PM |
| 11083 | ANNIE1-Assembly | Milestone | New | Lower inner structure into tank at ANNIE Hall | Matthew Wetstein | 04/06/2016 11:11 PM |
| 8631  | ANNIE1-Assembly | Milestone | New | Lowering the tank in ANNIE Hall               | Matthew Wetstein | 04/06/2016 11:12 PM |
| 8637  | ANNIE1-Assembly | Milestone | New | Installation of plastic liner                 | Matthew Wetstein | 04/06/2016 11:07 PM |
| 11099 | ANNIE1-Assembly | Task      | New | Installation of Forward Veto Cabling          | Matthew Wetstein | 04/06/2016 11:07 PM |
| 11097 | ANNIE1-Assembly | Bug       | New | Finalize crates and racks                     | Matthew Wetstein | 04/06/2016 11:11 PM |
| 11078 | ANNIE1-Assembly | Task      | New | Development of PMT installation procedure     | Matthew Wetstein | 04/06/2016 11:05 PM |

| #     | Project         | Tracker   | Status | Subject  | Author           | Updated             |
|-------|-----------------|-----------|--------|--|------------------|---------------------|
| 11094 | ANNIE1-Assembly | Milestone | New    | Cut top of tank                                | Matthew Wetstein | 12/06/2015 12:08 PM |
| 11084 | ANNIE1-Assembly | Task      | New    | Construction of NCV                            | Matthew Wetstein | 04/06/2016 11:07 PM |
| 11080 | ANNIE1-Assembly | Task      | New    | Construction of Inner Structure                | Matthew Wetstein | 01/12/2016 02:29 AM |
| 11086 | ANNIE1-Assembly | Milestone | New    | Cabling of the installed tank                  | Matthew Wetstein | 04/06/2016 11:08 PM |
| 8576  | ANNIE1-Assembly | Task      | New    | Assembly and installation of PMT modules       | Matthew Wetstein | 04/06/2016 11:06 PM |
| 11082 | ANNIE1-Assembly | Task      | New    | Access Platform: construction and installation | Matthew Wetstein | 04/06/2016 11:11 PM |

### ANNIE1-Commissioning (6)

|       |                      |           |     |   |                  |                     |
|-------|----------------------|-----------|-----|---|------------------|---------------------|
| 8636  | ANNIE1-Commissioning | Task      | New | Installation and commissioning of NCV               | Matthew Wetstein | 01/25/2018 07:11 AM |
| 11098 | ANNIE1-Commissioning | Milestone | New | Final ORC review                                    | Matthew Wetstein | 01/25/2018 07:20 AM |
| 11088 | ANNIE1-Commissioning | Task      | New | Detector commissioning with water                   | Matthew Wetstein | 01/25/2018 07:21 AM |
| 8600  | ANNIE1-Commissioning | Task      | New | Dark commissioning of PMTs in ANNIE Hall (no water) | Matthew Wetstein | 01/25/2018 07:10 AM |
| 11087 | ANNIE1-Commissioning | Task      | New | DAQ commissioning                                   | Matthew Wetstein | 01/25/2018 07:10 AM |
| 8599  | ANNIE1-Commissioning | Task      | New | Begin Run1 data taking                              | Matthew Wetstein | 01/25/2018 07:11 AM |

### ANNIE1-electronics-design (12)

|       |                           |           |        |  |                   |                     |
|-------|---------------------------|-----------|--------|--|-------------------|---------------------|
| 8816  | ANNIE1-electronics-design | Milestone | New    | What is our calibration system?                      | Matthew Wetstein  | 01/25/2018 07:13 AM |
| 10512 | ANNIE1-electronics-design | Task      | New    | Test final pickoff/splitter                          | Jonathan Eisch    | 04/06/2016 11:14 PM |
| 11348 | ANNIE1-electronics-design | Task      | New    | Postgress setup                                      | Benjamin Richards | 01/05/2016 08:22 AM |
| 8815  | ANNIE1-electronics-design | Task      | New    | Final Decision on MRD and veto electronics           | Matthew Wetstein  | 04/06/2016 11:08 PM |
| 11345 | ANNIE1-electronics-design | Task      | New    | DAQ Serialisation                                    | Benjamin Richards | 01/05/2016 08:17 AM |
| 11349 | ANNIE1-electronics-design | Task      | New    | DAQ board reader TOOL                                | Benjamin Richards | 01/15/2016 08:05 AM |
| 8907  | ANNIE1-electronics-design | Task      | Closed | Ship PSEC eval card to QMUL                          | Matthew Wetstein  | 10/09/2015 01:11 PM |
| 10469 | ANNIE1-electronics-design | Task      | Closed | Order rack enclosure                                 | Jonathan Eisch    | 12/18/2015 02:43 PM |
| 10465 | ANNIE1-electronics-design | Task      | Closed | Get FNAL EE staff to signoff on the enclosure design | Jonathan Eisch    | 12/17/2015 05:03 PM |
| 8807  | ANNIE1-electronics-design | Task      | Closed | Get FADCs from UChicago                              | Matthew Wetstein  | 10/06/2015 01:45 PM |
| 8804  | ANNIE1-electronics-design | Task      | Closed | Follow up with PREP on LeCroy 1440s                  | Matthew Wetstein  | 10/09/2015 01:05 PM |
| 8912  | ANNIE1-electronics-design | Meeting   | Closed | Discuss development of new Central card              | Matthew Wetstein  | 10/09/2015 01:14 PM |

### ANNIE1-MCstudies (4)

|      |                  |      |     |  |                  |                     |
|------|------------------|------|-----|--|------------------|---------------------|
| 8627 | ANNIE1-MCstudies | Task | New | SciBooNE driven calculation of skyshine rates                    | Matthew Wetstein | 06/04/2015 10:33 AM |
| 8628 | ANNIE1-MCstudies | Bug  | New | Optimization of acrylic volume                                   | Matthew Wetstein | 05/06/2015 09:43 AM |
| 8623 | ANNIE1-MCstudies | Task | New | Geant-based estimate of beam neutron rates and energies          | Matthew Wetstein | 01/25/2018 07:22 AM |
| 8625 | ANNIE1-MCstudies | Task | New | Full MC model with 3D PMTs to study neutron tagging efficiencies | Matthew Wetstein | 01/25/2018 07:24 AM |

### ANNIE1-mechanical-design (7)

| #     | Project                  | Tracker   | Status | Subject   | Author           | Updated             |
|-------|--------------------------|-----------|--------|---|------------------|---------------------|
| 8853  | ANNIE1-mechanical-design | Task      | New    | Water system shipped to FNAL for storage            | Matthew Wetstein | 12/06/2015 10:24 AM |
| 8854  | ANNIE1-mechanical-design | Task      | New    | Ship the muon veto structure                        | Matthew Wetstein | 08/05/2015 11:47 PM |
| 11092 | ANNIE1-mechanical-design | Task      | New    | Finish design of PMT holders                        | Matthew Wetstein | 01/22/2016 08:51 AM |
| 11076 | ANNIE1-mechanical-design | Task      | New    | Final decision on liner specs and estimate          | Matthew Wetstein | 01/12/2016 02:33 AM |
| 8572  | ANNIE1-mechanical-design | Task      | New    | Fermilab approval for tank purchase                 | Matthew Wetstein | 06/09/2015 02:01 AM |
| 8855  | ANNIE1-mechanical-design | Milestone | New    | Design of veto structure                            | Matthew Wetstein | 08/05/2015 11:55 PM |
| 8573  | ANNIE1-mechanical-design | Task      | New    | Approval to purchase tank, from IA State Purchasing | Matthew Wetstein | 05/27/2015 07:54 AM |

#### ANNIE1-MRD-design (4)

|      |                   |      |     |  |                  |                     |
|------|-------------------|------|-----|--|------------------|---------------------|
| 8618 | ANNIE1-MRD-design | Task | New | Sign over stewardship of the MRD steel                   | Matthew Wetstein | 06/05/2015 06:39 AM |
| 8617 | ANNIE1-MRD-design | Task | New | Follow up with NMSU about keeping the MRD Scintillator   | Matthew Wetstein | 12/18/2015 09:22 AM |
| 8616 | ANNIE1-MRD-design | Task | New | Follow up on Fermilab PMTs/Scintillator                  | Matthew Wetstein | 06/09/2015 02:02 AM |
| 8615 | ANNIE1-MRD-design | Task | New | Arrange to get the Kansas/Syracuse PMTs and scintillator | Matthew Wetstein | 06/05/2015 06:42 AM |

#### ANNIE1-Planning (4)

|      |                 |           |     |   |                  |                     |
|------|-----------------|-----------|-----|---|------------------|---------------------|
| 8629 | ANNIE1-Planning | Meeting   | New | Run 1 Mechanical Review                     | Matthew Wetstein | 01/22/2016 08:51 AM |
| 8575 | ANNIE1-Planning | Task      | New | Contact Stephen Geer about June PAC meeting | Matthew Wetstein | 05/21/2015 10:07 AM |
| 8638 | ANNIE1-Planning | Milestone | New | Complete TSW for ANNIE experiment           | Matthew Wetstein | 12/16/2015 11:56 PM |
| 8630 | ANNIE1-Planning | Meeting   | New | ANNIE Run 1 Electronics Review              | Matthew Wetstein | 05/06/2015 09:47 AM |

#### ANNIE1-Staging (6)

|       |                |           |     |                                   |                  |                     |
|-------|----------------|-----------|-----|-----------------------------------|------------------|---------------------|
| 8571  | ANNIE1-Staging | Milestone | New | Tank Manufacture                  | Matthew Wetstein | 12/06/2015 11:38 AM |
| 11091 | ANNIE1-Staging | Milestone | New | Prototype PMT holder              | Matthew Wetstein | 04/06/2016 11:10 PM |
| 8634  | ANNIE1-Staging | Task      | New | Order materials for PMT structure | Matthew Wetstein | 04/06/2016 11:09 PM |
| 8633  | ANNIE1-Staging | Task      | New | MRD + veto system testing         | Matthew Wetstein | 04/06/2016 11:09 PM |
| 11077 | ANNIE1-Staging | Milestone | New | Liner: collab buy-in, place order | Matthew Wetstein | 01/12/2016 02:32 AM |
| 11100 | ANNIE1-Staging | Task      | New | Cables for Forward Veto           | Matthew Wetstein | 04/06/2016 11:09 PM |

#### ANNIE1-veto-installation (1)

|      |                          |           |     |                                |                  |                     |
|------|--------------------------|-----------|-----|--------------------------------|------------------|---------------------|
| 8856 | ANNIE1-veto-installation | Milestone | New | Installation of Veto structure | Matthew Wetstein | 12/06/2015 10:42 AM |
|------|--------------------------|-----------|-----|--------------------------------|------------------|---------------------|

#### ANNIE2-Assembly (3)

|       |                 |      |     |                                   |                  |                     |
|-------|-----------------|------|-----|-----------------------------------|------------------|---------------------|
| 18930 | ANNIE2-Assembly | Task | New | In situ calibration of MRD layers | Matthew Wetstein | 02/09/2018 09:07 AM |
| 18929 | ANNIE2-Assembly | Task | New | Functional test of new MRD layers | Matthew Wetstein | 02/09/2018 09:07 AM |
| 18928 | ANNIE2-Assembly | Task | New | Finish MRD Refurbishment          | Matthew Wetstein | 02/09/2018 09:06 AM |

#### ANNIE2-electronics-design (6)

| #                                       | Project                      | Tracker   | Status | Subject   | Author           | Updated             |
|---|------------------------------|-----------|--------|---|------------------|---------------------|
| 17916                                   | ANNIE2-electronics-design    | Bug       | New    | readACDC after setConfig is all 0                               | Miles Lucas      | 10/31/2017 10:09 AM |
| 18935                                   | ANNIE2-electronics-design    | Milestone | New    | Rack protection plan  | Matthew Wetstein | 02/09/2018 09:16 AM |
| 18936                                   | ANNIE2-electronics-design    | Milestone | New    | Power distribution plan   | Matthew Wetstein | 02/09/2018 09:16 AM |
| 18934                                   | ANNIE2-electronics-design    | Milestone | New    | Final crate and rack maps                                       | Matthew Wetstein | 02/09/2018 09:15 AM |
| 18937                                   | ANNIE2-electronics-design    | Task      | New    | Design the backboard for the LAPPD with ACDC connectors         | Matthew Wetstein | 02/09/2018 09:31 AM |
| 18938                                   | ANNIE2-electronics-design    | Task      | New    | Design for separate ACDC voltage regulator board                | Matthew Wetstein | 02/09/2018 09:43 AM |
| <b>ANNIE2-electronics-readiness (3)</b> |                              |           |        |   |                  |                     |
| 18933                                   | ANNIE2-electronics-readiness | Task      | New    | Firmware upgrades for KOTO boards (2 different trigger schemes) | Matthew Wetstein | 02/09/2018 09:13 AM |
| 18931                                   | ANNIE2-electronics-readiness | Task      | New    | Finish new ACDC-ACC interface firmware                          | Matthew Wetstein | 02/09/2018 09:12 AM |
| 18932                                   | ANNIE2-electronics-readiness | Task      | New    | Ethernet interface for ACC                                      | Matthew Wetstein | 02/09/2018 09:13 AM |
| <b>ANNIE2-mechanical-design (17)</b>    |                              |           |        |   |                  |                     |
| 18564                                   | ANNIE2-mechanical-design     | Task      | New    | Separate voltage regulators from ACDCs to separate board        | Matthew Wetstein | 06/12/2018 09:20 AM |
| 18569                                   | ANNIE2-mechanical-design     | Task      | New    | Revise Specification Doc.                                       | Emrah Tiras      | 06/12/2018 09:18 AM |
| 18939                                   | ANNIE2-mechanical-design     | Milestone | New    | Identify new tank liner   | Matthew Wetstein | 06/13/2018 01:30 AM |
| 18557                                   | ANNIE2-mechanical-design     | Bug       | New    | How to mount the WATCHMAN PMTs                                  | Matthew Wetstein | 12/14/2017 01:09 PM |
| 18558                                   | ANNIE2-mechanical-design     | Bug       | New    | How to mount the LUX PMTs on the bottom                         | Matthew Wetstein | 01/25/2018 07:50 AM |
| 18559                                   | ANNIE2-mechanical-design     | Bug       | New    | Holders and Mount Concepts for new 10" PMTs                     | Matthew Wetstein | 01/25/2018 07:57 AM |
| 18941                                   | ANNIE2-mechanical-design     | Milestone | New    | Final Review of the Tank Lid design                             | Matthew Wetstein | 02/09/2018 09:48 AM |
| 18565                                   | ANNIE2-mechanical-design     | Task      | New    | Final layout of new LAPPD housing                               | Matthew Wetstein | 06/12/2018 09:19 AM |
| 18570                                   | ANNIE2-mechanical-design     | Task      | New    | Finalize experimental layout in the hall                        | Matthew Wetstein | 12/14/2017 01:39 PM |
| 18568                                   | ANNIE2-mechanical-design     | Task      | New    | Finalize design of transparency calibration system              | Matthew Wetstein | 12/14/2017 01:34 PM |
| 18566                                   | ANNIE2-mechanical-design     | Task      | New    | Finalize design of timing calibration system                    | Matthew Wetstein | 01/25/2018 07:39 AM |
| 18567                                   | ANNIE2-mechanical-design     | Task      | New    | Finalize design of source calibration system                    | Matthew Wetstein | 12/14/2017 01:33 PM |
| 18571                                   | ANNIE2-mechanical-design     | Task      | New    | Finalize design and layout of water system                      | Matthew Wetstein | 01/25/2018 07:40 AM |
| 18560                                   | ANNIE2-mechanical-design     | Task      | New    | Figure out how to optically isolate the inner volume            | Matthew Wetstein | 12/14/2017 01:14 PM |
| 18562                                   | ANNIE2-mechanical-design     | Task      | New    | Draft LAPPD mounting board design                               | Matthew Wetstein | 06/12/2018 09:19 AM |
| 18556                                   | ANNIE2-mechanical-design     | Task      | New    | Design of the new tank lid                                      | Matthew Wetstein | 01/25/2018 07:34 AM |
| 18572                                   | ANNIE2-mechanical-design     | Task      | New    | Cleanliness and handling strategy                               | Emrah Tiras      | 06/12/2018 09:20 AM |
| <b>Applications Group (1)</b>           |                              |           |        |   |                  |                     |
| 23351                                   | Applications Group           | Idea      | New    | Reimagining the Parameter Page                                  | Beau Harrison    | 09/30/2019 08:27 AM |
| <b>art (259)</b>                        |                              |           |        |   |                  |                     |



| #     | Project | Tracker | Status   | Subject   | Author                | Updated             |
|-------|---------|---------|----------|---|-----------------------|---------------------|
| 25394 | art     | Support | New      | Build Art with CLHEP 2.4.4.0  | Julia Yarba           | 01/13/2021 03:20 PM |
| 13610 | art     | Feature | Assigned | Update schema evolution wiki page   | Marc Paterno          | 12/03/2019 12:41 PM |
| 17098 | art     | Feature | Assigned | Support the retrieval of a data product from a product ID in gallery::Event       | Gianluca Petrillo     | 12/03/2019 12:41 PM |
| 7081  | art     | Feature | Assigned | SAM Process ID in metadata  | Dominick Rocco        | 12/03/2019 12:41 PM |
| 1000  | art     | Feature | Assigned | Run/event range   | Eric Church           | 12/03/2019 12:41 PM |
| 8271  | art     | Feature | Assigned | Better diagnostics for ProductNotFound with multiple paths                        | Christopher Backhouse | 12/03/2019 12:41 PM |
| 17056 | art     | Feature | Assigned | Add art command line option -fpe to turn on floating point exceptions by default. | Herbert Greenlee      | 12/03/2019 12:41 PM |
| 5775  | art     | Feature | Feedback | Support for arbitrary, random-file access   | Nathaniel Tagg        | 10/23/2017 12:12 PM |
| 1316  | art     | Feature | Feedback | Snapshot histogram file   | Mark Messier          | 10/23/2017 12:12 PM |
| 2943  | art     | Feature | Feedback | ResourceWatch utility   | Rob Kutschke          | 10/23/2017 12:12 PM |
| 10410 | art     | Feature | Feedback | Request option for first-match-in-LD_LIBRARY_PATH for resolving art plugins       | Rob Kutschke          | 10/19/2015 12:53 PM |
| 6387  | art     | Feature | Feedback | Provide versioning API in art_Framework_Core instead of art_Version               | Ben Morgan            | 10/23/2017 12:12 PM |
| 4907  | art     | Feature | Feedback | Provide Run::isRealData() and SubRun::isRealData()                                | Christopher Backhouse | 10/23/2017 12:12 PM |
| 18942 | art     | Idea    | Feedback | Possible way around SIP and allowing use of DYLD_LIBRARY_PATH on macOS?           | Ben Morgan            | 05/21/2018 05:41 AM |
| 10750 | art     | Feature | Feedback | lazy loading of the parameter set database  | Andrei Gaponenko      | 08/29/2016 04:21 PM |
| 5790  | art     | Feature | Feedback | It should be possible to discover the art metadata for an object.                 | Herbert Greenlee      | 10/23/2017 12:12 PM |
| 4916  | art     | Feature | Feedback | Implement SelectRuns and SelectSubRuns  | Christopher Backhouse | 10/23/2017 12:12 PM |
| 7526  | art     | Bug     | Feedback | Follow up on Parameter Set bloat  | Rob Kutschke          | 10/23/2017 12:12 PM |
| 18628 | art     | Feature | Feedback | expand Results concept  | Raymond Culbertson    | 01/25/2018 09:30 AM |
| 5795  | art     | Feature | Feedback | code version control provenance   | Brendan Kiburg        | 10/23/2017 12:12 PM |
| 7580  | art     | Support | Feedback | Can't debug with the debug builds of art and externals on Mac OSX                 | Adam Lyon             | 10/23/2017 12:12 PM |
| 19599 | art     | Support | Feedback | art job influenced by random files  | Andrei Gaponenko      | 09/02/2020 09:11 AM |
| 7662  | art     | Feature | Feedback | Allow absolute include paths in fcls  | Christopher Backhouse | 10/23/2017 12:12 PM |
| 11839 | art     | Feature | Feedback | Add respondToOpenInputFile method to ResultsProducer                              | Brian Rebel           | 03/03/2016 03:21 PM |
| 7811  | art     | Support | Closed   | Would like event split and merge functionality in the readin module               | Thomas Junk           | 12/23/2015 09:05 AM |
| 13692 | art     | Bug     | Closed   | Web page for gallery v1_03_06 download has an error                               | Marc Paterno          | 08/26/2016 09:51 AM |
| 3119  | art     | Bug     | Closed   | Version 1.02.05 (and develop) have a circular dependency.                         | Christopher Green     | 08/09/2013 11:34 AM |
| 3925  | art     | Feature | Closed   | ValidHandle::id()   | Andrei Gaponenko      | 05/24/2013 02:28 PM |
| 2751  | art     | Feature | Closed   | Use of ART-service in standalone scripts, not depending on ART                    | Denis Perevalov       | 08/24/2012 11:59 AM |
| 10544 | art     | Bug     | Closed   | Unexpected error when trying to run MCShower maker                                | Jonathan Asaadi       | 12/17/2015 01:42 PM |
| 2701  | art     | Feature | Closed   | turn off exception catching   | Herbert Greenlee      | 08/24/2012 12:14 PM |

| #     | Project | Tracker               | Status | Subject   | Author                | Updated             |
|-------|---------|-----------------------|--------|---|-----------------------|---------------------|
| 7375  | art     | Bug                   | Closed | The qualifier s5 should not mean art v1_12_* it should mean a single version of art                         | Rob Kutschke          | 02/16/2015 11:21 AM |
| 13852 | art     | Feature               | Closed | Stop event loop dynamically end exit with status 0  | Pengfei Ding          | 02/16/2018 12:32 PM |
| 14889 | art     | Support               | Closed | Source module documentation   | Robert Sulej          | 01/09/2017 11:59 AM |
| 13624 | art     | Support               | Closed | Slow reading of a MicroBooNE highly filtered event file   | Bruce Baller          | 10/03/2016 12:17 PM |
| 11152 | art     | Support               | Closed | services.scheduler.errorOnFailureToPut should default to true   | John Freeman          | 12/16/2015 10:27 AM |
| 11118 | art     | Feature               | Closed | SelectEvents setting should respect filters by default  | Christopher Backhouse | 08/29/2016 12:08 PM |
| 8699  | art     | Feature               | Closed | Segregate use of Reflex   | Marc Paterno          | 12/17/2015 01:31 PM |
| 16678 | art     | Bug                   | Closed | segfault running FileDumperOutput on older file with missing dictionaries.                                  | Christopher Green     | 10/18/2017 01:47 PM |
| 2463  | art     | Feature               | Closed | Seeding the random engines inside the MixFilter templates   | Rob Kutschke          | 03/02/2012 11:32 AM |
| 10554 | art     | Feature               | Closed | Save TimeTracker DB to output art-ROOT file or TFileService file.   | Dominick Rocco        | 08/29/2016 11:52 AM |
| 20849 | art     | Support               | Closed | safety in art::DataViewImpl::getPointerByLabel(InputTag const& tag)   | Pavel Murat           | 11/08/2018 02:46 PM |
| 7351  | art     | Bug                   | Closed | root gui bug in v1_12_00  | Herbert Greenlee      | 10/23/2017 12:12 PM |
| 1127  | art     | Feature               | Closed | Re-write art::Group::getProductType() to not use product()  | Christopher Green     | 07/19/2012 01:09 PM |
| 890   | art     | Feature               | Closed | Review linking of shared libraries.   | Christopher Green     | 07/24/2013 04:01 PM |
| 10545 | art     | Support               | Closed | Returning false from EDFilter::beginSubRun() does not skip the events                                       | Christopher Backhouse | 12/02/2015 10:50 AM |
| 7818  | art     | Feature               | Closed | Request that ProductNotFound rethrow by default   | Rob Kutschke          | 10/18/2017 03:00 PM |
| 2445  | art     | Feature               | Closed | Request improved error message  | Rob Kutschke          | 10/07/2015 02:00 PM |
| 915   | art     | Bug                   | Closed | Reproduce minimally and report a (Reflex?) bug in processing of vector<Prong const *>                       | Christopher Green     | 12/09/2011 02:51 PM |
| 8698  | art     | Feature               | Closed | Remove use of Reflex  | Marc Paterno          | 12/17/2015 01:31 PM |
| 11107 | art     | Support               | Closed | Release art 1.18.02   | Kyle Knoepfel         | 12/14/2015 11:30 AM |
| 2629  | art     | Feature               | Closed | ReaderSource should allow the detail class to decide whether fileNames[] is required, and cope accordingly. | Christopher Green     | 08/09/2013 11:31 AM |
| 10969 | art     | Feature               | Closed | Provide VERSION macro exports   | Eric Flumerfelt       | 08/29/2016 12:07 PM |
| 3768  | art     | Feature               | Closed | Provide command line override for EmptyEvent module parameter firstEvent.                                   | Herbert Greenlee      | 06/03/2013 02:13 PM |
| 18971 | art     | Support               | Closed | Products of type "sumdata::RunData" cannot be aggregated.   | Will Foreman          | 02/12/2018 11:29 AM |
| 2940  | art     | Idea                  | Closed | Produce test case and submit bug report to GCC of std::enable_if misbehavior                                | Christopher Green     | 08/31/2012 11:24 AM |
| 18923 | art     | Feature               | Closed | Printout option of Memory Tracker service   | Liang Li              | 06/06/2018 08:32 AM |
| 10627 | art     | Bug                   | Closed | Output module template art::ProvenanceDumper now forces the detail class to do parameter set validation     | Rob Kutschke          | 12/23/2015 08:55 AM |
| 4367  | art     | Necessary Maintenance | Closed | OutputModule problems.  | Christopher Green     | 06/07/2016 08:18 AM |

| #     | Project | Tracker               | Status | Subject   | Author                | Updated             |
|-------|---------|-----------------------|--------|---|-----------------------|---------------------|
| 18376 | art     | Support               | Closed | Output file name length limit.  | Herbert Greenlee      | 11/27/2017 12:17 PM |
| 24900 | art     | Support               | Closed | NOvA transitioning Assn creation from art2 to art3  | Brian Rebel           | 09/03/2020 02:51 PM |
| 5474  | art     | Feature               | Closed | Nicer syntax for iterating over std::Handle<std::vector<...   | Christopher Backhouse | 10/23/2017 12:12 PM |
| 2992  | art     | Bug                   | Closed | "-n -1" no longer means "unlimited" on the command line   | Christopher Backhouse | 01/11/2013 11:10 AM |
| 5281  | art     | Necessary Maintenance | Closed | Move to using make_shared() wherever possible and appropriate.  | Christopher Green     | 12/03/2019 12:43 PM |
| 22776 | art     | Feature               | Closed | More helpful error message when a module isn't found in the modules list of "prune_configuration.cc". | Jason Stock           | 06/20/2019 08:30 AM |
| 891   | art     | Feature               | Closed | Migrate simple_plugin Cmake macro to art package.   | Christopher Green     | 12/09/2011 11:44 AM |
| 15381 | art     | Feature               | Closed | Migrate code from CMSSW FWCore/Concurrency  | Marc Paterno          | 06/05/2018 03:27 PM |
| 10491 | art     | Bug                   | Closed | memory spike at the end of a job  | Andrei Gaponenko      | 12/17/2015 01:33 PM |
| 3756  | art     | Bug                   | Closed | Make.config in GENIE v3665c   | William Seligman      | 04/23/2013 05:51 PM |
| 7294  | art     | Feature               | Closed | list dynamic libraries  | Herbert Greenlee      | 10/23/2017 12:12 PM |
| 13586 | art     | Support               | Closed | Is this the expected behaviour  | Rob Kutschke          | 08/18/2016 12:05 PM |
| 894   | art     | Feature               | Closed | Investigate whether simple_plugin Cmake macro can be improved to not require dict subdirectory.       | Christopher Green     | 12/09/2011 11:44 AM |
| 911   | art     | Feature               | Closed | Investigate storage of exceptions in Handle and friends and whether it can be improved.               | Christopher Green     | 07/19/2012 01:08 PM |
| 12322 | art     | Bug                   | Closed | Invalid canonical fcl output  | Herbert Greenlee      | 05/24/2016 09:54 AM |
| 15380 | art     | Feature               | Closed | Introduction of multi-threaded running  | Marc Paterno          | 06/05/2018 03:55 PM |
| 15383 | art     | Feature               | Closed | Introduce StreamSchedule, etc.  | Marc Paterno          | 06/05/2018 03:32 PM |
| 15392 | art     | Feature               | Closed | Introduce "stream" modules  | Marc Paterno          | 06/05/2018 03:55 PM |
| 15390 | art     | Feature               | Closed | Introduce "one" modules   | Marc Paterno          | 06/05/2018 03:54 PM |
| 15391 | art     | Feature               | Closed | Introduce "global" modules  | Marc Paterno          | 06/05/2018 03:55 PM |
| 15384 | art     | Feature               | Closed | Introduce context system.   | Marc Paterno          | 06/05/2018 03:26 PM |
| 15385 | art     | Feature               | Closed | Introduce context classes   | Marc Paterno          | 06/05/2018 03:25 PM |
| 2397  | art     | Feature               | Closed | Interface to the ART "user" database (file's SQLite DB)   | Adam Lyon             | 09/19/2013 03:27 PM |
| 20842 | art     | Support               | Closed | Install ROOT 6.14 and gcc-8.2.0 as a UPS product  | Nikolai Mokhov        | 01/23/2019 01:18 PM |
| 3737  | art     | Feature               | Closed | improve the ability to auto detect the need to disable fast cloning                                   | Rob Kutschke          | 08/22/2016 11:27 AM |
| 8690  | art     | Support               | Closed | Implementing the TEfficiency class in TFileService  | Leon Rochester        | 07/17/2015 09:24 AM |
| 6700  | art     | Bug                   | Closed | ifdh_fetch to /nova/app does not work in ifdh_art v1_4_3  | Kanika Sachdev        | 07/28/2014 06:45 PM |
| 1758  | art     | Feature               | Closed | Histograms in shared memory   | Mark Messier          | 10/23/2017 12:12 PM |
| 12952 | art     | Support               | Closed | Help NOvA investigate memory usage issues   | Brian Rebel           | 08/22/2016 08:25 AM |
| 13855 | art     | Support               | Closed | Help diagnose apparently misbehaving filter module  | Marc Paterno          | 09/13/2016 05:07 PM |

| #     | Project | Tracker               | Status | Subject   | Author                | Updated             |
|-------|---------|-----------------------|--------|---|-----------------------|---------------------|
| 15665 | art     | Bug                   | Closed | gPad->WaitForPrimitive does not work in v6_08_04c                                   | Rob Kutschke          | 02/28/2017 01:17 PM |
| 15389 | art     | Feature               | Closed | Get "legacy" modules running using TBB tasks.                                       | Marc Paterno          | 06/05/2018 03:26 PM |
| 6344  | art     | Bug                   | Closed | Filter out output of some art services  | Gianluca Petrillo     | 02/16/2015 10:32 AM |
| 9333  | art     | Support               | Closed | FHICL Information from Previous Module  | Martin Frank          | 08/14/2015 07:58 AM |
| 5690  | art     | Feature               | Closed | FCL file parameters not properly tracked  | Wesley Ketchum        | 05/01/2014 03:29 PM |
| 3401  | art     | Feature               | Closed | Facility to input metadata from user space  | Andrew Norman         | 09/19/2013 03:15 PM |
| 8842  | art     | Feature               | Closed | Facility for quick bootstrapping of development                                     | Marc Paterno          | 04/23/2018 11:06 AM |
| 16042 | art     | Bug                   | Closed | exception in art v2   | Pavel Murat           | 04/26/2017 11:21 AM |
| 900   | art     | Feature               | Closed | EventID should have the subRunID as part of its data                                | Christopher Green     | 12/09/2011 11:55 AM |
| 963   | art     | Feature               | Closed | EDProducer to read data products from another event data file.                      | Rob Kutschke          | 12/09/2011 03:13 PM |
| 1632  | art     | Feature               | Closed | -e command line option ignored  | Mark Messier          | 07/30/2014 06:29 PM |
| 21846 | art     | Support               | Closed | Do nothing job has VmHWM = 3.6 GB   | Rob Kutschke          | 02/11/2019 11:29 AM |
| 13964 | art     | Necessary Maintenance | Closed | Documentation on how to fill classes.h files  | Gianluca Petrillo     | 10/03/2016 11:26 AM |
| 3553  | art     | Bug                   | Closed | dlopen: cannot load any more object with static TLS                                 | Andrei Gaponenko      | 10/03/2013 03:15 PM |
| 920   | art     | Milestone             | Closed | Design a mechanism for specifying obsolete parameters with info/warnings when seen. | Christopher Green     | 10/23/2017 12:12 PM |
| 2477  | art     | Feature               | Closed | controlling art printouts   | Andrei Gaponenko      | 10/23/2017 12:12 PM |
| 17634 | art     | Feature               | Closed | Consider variants of FindMany and friends that perform lookup by Ptr                | Christopher Backhouse | 01/02/2018 01:14 PM |
| 1343  | art     | Bug                   | Closed | Configuring the message logger  | Rob Kutschke          | 06/16/2011 01:57 PM |
| 19972 | art     | Feature               | Closed | configuring producing service   | Raymond Culbertson    | 06/06/2018 08:26 AM |
| 24067 | art     | Support               | Closed | Compilation error on OSX  | Iker de Icaza Astiz   | 03/25/2020 03:36 PM |
| 7322  | art     | Feature               | Closed | Change in fastCloning default value   | Wesley Ketchum        | 10/23/2017 12:12 PM |
| 8653  | art     | Feature               | Closed | Build and run art with ROOT6  | Ben Morgan            | 12/17/2015 01:31 PM |
| 3055  | art     | Feature               | Closed | art utility for monitoring file size contributions by new objects                   | Gavin Davies          | 10/01/2015 01:26 PM |
| 19890 | art     | Bug                   | Closed | art requires dictionary for non-persistent product                                  | Raymond Culbertson    | 01/31/2019 02:06 PM |
| 24920 | art     | Support               | Closed | art "readFile" errors affecting MicroBooNE production jobs                          | Matthew Rosenberg     | 09/11/2020 09:09 AM |
| 15372 | art     | Milestone             | Closed | art multi-threading phase 1   | Marc Paterno          | 06/05/2018 04:09 PM |
| 3647  | art     | Bug                   | Closed | artmod created Module missing needed #include Event.h                               | Jan Zirnstein         | 04/23/2013 10:07 AM |
| 9768  | art     | Support               | Closed | art::FindManyP throws if art::Handle is invalid                                     | Tingjun Yang          | 12/29/2015 10:51 AM |
| 17752 | art     | Support               | Closed | art 2.8.3 generating a bus error under GDB (SLF6)                                   | Gianluca Petrillo     | 10/02/2017 11:53 AM |
| 6368  | art     | Feature               | Closed | A "print" feature to assist in debugging  | Rob Kutschke          | 11/28/2016 11:58 AM |
| 18159 | art     | Feature               | Closed | Another request for FileDumperOutput ...  | Rob Kutschke          | 08/20/2018 09:57 AM |
| 2887  | art     | Feature               | Closed | Allow modules to call library code to register their products                       | Adam Lyon             | 08/24/2012 12:09 PM |

| #     | Project | Tracker | Status   | Subject  | Author                | Updated             |
|-------|---------|---------|----------|--|-----------------------|---------------------|
| 3190  | art     | Feature | Closed   | Allow for reconfiguration in a DAQ environment   | Kurt Biery            | 10/23/2017 12:12 PM |
| 11119 | art     | Feature | Closed   | Allow an EDFilter to not produce all products if it's returning false  | Christopher Backhouse | 08/29/2016 12:09 PM |
| 2886  | art     | Feature | Closed   | All configured services shall be created   | Adam Lyon             | 08/24/2012 11:56 AM |
| 15386 | art     | Feature | Closed   | Add basic level of setting context information   | Marc Paterno          | 06/05/2018 03:26 PM |
| 3067  | art     | Feature | Closed   | access to ParameterSet of a producer module  | Andrei Gaponenko      | 12/17/2015 01:53 PM |
| 2869  | art     | Feature | Closed   | Access to FCL parameter comments   | Mark Messier          | 08/31/2012 11:11 AM |
| 4107  | art     | Feature | Closed   | A candidate function for FHICLCPP  | Rob Kutschke          | 10/07/2015 01:52 PM |
| 2664  | art     | Feature | Rejected | Update "Can't find key BEGIN..." error message to include the module/service looking for the key               | Brian Rebel           | 08/05/2013 01:20 PM |
| 10386 | art     | Bug     | Rejected | Tentative bug report: Using cetbuildtools v4_12_6 , cmake stage fails..  | Paul Lebrun           | 10/05/2015 10:03 AM |
| 3188  | art     | Feature | Rejected | Support the routing of corrupt RawEvents to different disk files   | Kurt Biery            | 12/18/2012 09:25 AM |
| 1057  | art     | Bug     | Rejected | Specifying maximum output file size does not work  | Brian Rebel           | 07/25/2013 12:13 PM |
| 899   | art     | Feature | Rejected | Should module_label continue to be injected into each module?  | Christopher Green     | 06/26/2012 01:34 PM |
| 945   | art     | Feature | Rejected | Set up LXR browser for all projects.   | Christopher Green     | 12/09/2011 03:09 PM |
| 3321  | art     | Bug     | Rejected | Services do not call preBeginRun, endJob etc...  | Denis Perevalov       | 01/18/2013 11:09 AM |
| 895   | art     | Feature | Rejected | Revise ROOT-based I/O to incorporate improvements in CMS code base   | Christopher Green     | 12/09/2011 11:46 AM |
| 913   | art     | Idea    | Rejected | Review naming conventions in messagefacility.  | Christopher Green     | 12/09/2011 02:49 PM |
| 905   | art     | Feature | Rejected | Review and port MessageLogger changes from CMS repository to MF since fork.                                    | Christopher Green     | 12/09/2011 12:02 PM |
| 3077  | art     | Feature | Rejected | Request comparison functions for art::Ptr  | Rob Kutschke          | 11/02/2012 11:39 AM |
| 921   | art     | Feature | Rejected | Replace Worker, WorkerT and friends with something with better consistency / problem detection.                | Christopher Green     | 12/09/2011 03:03 PM |
| 901   | art     | Feature | Rejected | Record how many events were read from input for the writing of a given output file.                            | Christopher Green     | 12/09/2011 11:56 AM |
| 1062  | art     | Feature | Rejected | Quick reference guide for documentation site   | Brian Rebel           | 07/25/2013 01:47 PM |
| 2325  | art     | Feature | Rejected | query disk size for data objects   | Andrei Gaponenko      | 02/07/2012 01:08 PM |
| 6403  | art     | Feature | Rejected | PtrVector should have emplace_back to better match the interface of vector<Ptr>                                | Marc Paterno          | 06/03/2014 02:26 PM |
| 12391 | art     | Bug     | Rejected | PtrVectorBase member data could undergo narrowing conversion when reading a linux-produced data file on a Mac. | Christopher Green     | 04/25/2016 11:34 AM |
| 3105  | art     | Feature | Rejected | Product Not Found exception is not caught for art::Event::getView()  | Brian Rebel           | 02/26/2013 09:54 AM |
| 2317  | art     | Feature | Rejected | On demand loading of services when handle is requested   | Brian Rebel           | 08/24/2012 12:17 PM |
| 2275  | art     | Feature | Rejected | On demand loading of module libraries  | Brian Rebel           | 12/16/2011 11:58 AM |
| 3134  | art     | Bug     | Rejected | Non-informative exception thrown if FHICL parameter isn't found in a Service constructor                       | Adam Lyon             | 08/06/2013 02:59 PM |

| #     | Project | Tracker               | Status   | Subject  | Author                | Updated             |
|-------|---------|-----------------------|----------|--|-----------------------|---------------------|
| 6557  | art     | Feature               | Rejected | multi-file product reading for ROOT input module   | Jim Kowalkowski       | 07/21/2014 11:37 AM |
| 2815  | art     | Feature               | Rejected | Merging/mixing multiple files event-by-event   | Christopher Backhouse | 08/24/2012 12:05 PM |
| 1063  | art     | Feature               | Rejected | Make the input line parameters accessible to modules   | Denis Perevalov       | 03/21/2011 05:44 PM |
| 919   | art     | Bug                   | Rejected | Investigate report of problem with floating point exception control service.                               | Christopher Green     | 07/25/2013 10:36 AM |
| 9803  | art     | Feature               | Rejected | Input files with no events   | G2Muon G2Muon         | 10/08/2015 10:26 AM |
| 3773  | art     | Feature               | Rejected | Improved ability to control when RootOutput will close and open output files.                              | Herbert Greenlee      | 05/27/2015 09:49 AM |
| 11495 | art     | Feature               | Rejected | FindMany/One interface that works with art::Ptr  | Kanika Sachdev        | 01/27/2016 10:50 AM |
| 2948  | art     | Feature               | Rejected | fhicl::ParameterSet::print()   | Denis Perevalov       | 09/10/2012 12:25 PM |
| 2947  | art     | Bug                   | Rejected | Fhicl allows creation of new parameters in the configuration in the job file                               | Denis Perevalov       | 09/21/2012 11:24 AM |
| 6094  | art     | Bug                   | Rejected | Fcl expansion doesn't handle absolute path includes.   | Herbert Greenlee      | 05/01/2014 10:42 AM |
| 10140 | art     | Bug                   | Rejected | Failure to specify option argument can lead to overwritten input files                                     | Kyle Knoepfel         | 09/14/2015 12:06 PM |
| 1025  | art     | Feature               | Rejected | end_paths and trigger_paths are now unnecessary and should be retired.                                     | Christopher Green     | 07/25/2013 12:03 PM |
| 961   | art     | Bug                   | Rejected | EDProducer to read data products from another event data file.   | Rob Kutschke          | 02/11/2011 11:54 AM |
| 5167  | art     | Bug                   | Rejected | Data product sizes reported by FileDumperOutput  | Rob Kutschke          | 01/13/2014 12:10 PM |
| 903   | art     | Feature               | Rejected | Create forwarding headers in each library with standard naming (fwd.h).                                    | Christopher Green     | 07/24/2013 04:44 PM |
| 938   | art     | Bug                   | Rejected | code in art should not be directly throwing cet::exception; use art::Exception                             | Marc Paterno          | 07/25/2013 10:44 AM |
| 1010  | art     | Feature               | Rejected | CheckUpsVersion to provide functions usable in IF checks   | Christopher Green     | 12/09/2011 03:16 PM |
| 14294 | art     | Bug                   | Rejected | 'boost::filesystem::path' has no member named 'native' when trying to build novasoft with art2/root6       | Christopher Backhouse | 10/31/2016 11:30 AM |
| 13833 | art     | Bug                   | Rejected | artmod still produces #include "art/Utilities/InputTag.h"  | Tingjun Yang          | 09/13/2016 03:49 PM |
| 8532  | art     | Necessary Maintenance | Rejected | A question of the appropriate place for testing for the presence of a dictionary for a type of a product   | Christopher Green     | 08/29/2016 11:47 AM |
| 2334  | art     | Feature               | Rejected | Another candidate for cetlib?  | Rob Kutschke          | 08/02/2013 02:16 PM |
| 898   | art     | Feature               | Rejected | Allow underscores in Product class specifications.   | Christopher Green     | 12/09/2011 11:48 AM |
| 914   | art     | Idea                  | Rejected | Agree on moving forward on MF to merge art / NOvA / CMS versions into one code base.                       | Christopher Green     | 12/09/2011 02:50 PM |
| 906   | art     | Feature               | Rejected | Address the mf::service namespace issue.   | Christopher Green     | 12/09/2011 02:28 PM |
| 3946  | art     | Feature               | Rejected | ActivityRegistry callbacks preCloseFile and postCloseFile should pass the file name as an argument.        | Herbert Greenlee      | 08/09/2013 04:07 PM |
| 4075  | art     | Necessary Maintenance | Accepted | Without much effort, the framework can be made to support per-module action tables for exception handling. | Christopher Green     | 10/23/2017 12:12 PM |
| 7029  | art     | Feature               | Accepted | Use one consistent unit test framework for Art   | Ben Morgan            | 10/23/2017 12:12 PM |
| 18973 | art     | Feature               | Accepted | Update cetskelgen to use fhicl validation  | Giuseppe Cerati       | 02/12/2018 12:22 PM |
| 16126 | art     | Feature               | Accepted | Update Alinea Wiki Page With More Useful Documentation   | Brian Rebel           | 12/03/2019 12:41 PM |

| #     | Project | Tracker               | Status   | Subject   | Author            | Updated             |
|-------|---------|-----------------------|----------|---|-------------------|---------------------|
| 1197  | art     | Necessary Maintenance | Accepted | Unit / regression tests for RootInput random access.  | Christopher Green | 10/23/2017 12:12 PM |
| 8426  | art     | Feature               | Accepted | Understand gradual memory growth and determine if it can be mitigated                               | Kyle Knoepfel     | 04/27/2015 11:46 AM |
| 11026 | art     | Feature               | Accepted | Tuple product support   | Jim Kowalkowski   | 04/23/2018 10:51 AM |
| 1918  | art     | Feature               | Accepted | Thinking ahead to event mixing and art::Ptr to run product  | Rob Kutschke      | 10/23/2017 12:12 PM |
| 956   | art     | Feature               | Accepted | Testing of signal emission is needed  | Marc Paterno      | 10/23/2017 12:12 PM |
| 8178  | art     | Necessary Maintenance | Accepted | Testing of drop on input needs improvement  | Marc Paterno      | 10/23/2017 12:12 PM |
| 15169 | art     | Idea                  | Accepted | Support splitting data products by schema evolution   | Gianluca Petrillo | 01/23/2017 11:20 AM |
| 15618 | art     | Idea                  | Accepted | Support for reading secondary input files in a special scenario                                     | Rob Kutschke      | 03/13/2017 02:15 PM |
| 8846  | art     | Feature               | Accepted | Support for handling branch aliases   | Marc Paterno      | 04/23/2018 10:51 AM |
| 11156 | art     | Feature               | Accepted | Suggestions to update the fhicl documentation   | Rob Kutschke      | 12/21/2015 11:21 AM |
| 13274 | art     | Bug                   | Accepted | Some dead links in art wiki: ROOT schema evolution  | Gianluca Petrillo | 07/18/2016 11:24 AM |
| 4459  | art     | Necessary Maintenance | Accepted | Signal handling should be reviewed to ensure that signals are always handled by the correct thread. | Christopher Green | 10/23/2017 12:12 PM |
| 7177  | art     | Feature               | Accepted | service and module testing utilities  | Lynn Garren       | 10/23/2017 12:12 PM |
| 908   | art     | Necessary Maintenance | Accepted | Review structure, code and other aspects of cpp0x and cetlib  | Christopher Green | 10/23/2017 12:12 PM |
| 974   | art     | Necessary Maintenance | Accepted | Review non-running legacy tests to see if they are worth porting or should be removed.              | Christopher Green | 10/23/2017 12:12 PM |
| 907   | art     | Necessary Maintenance | Accepted | Review and rationalize use of exceptions across art.  | Christopher Green | 10/23/2017 12:12 PM |
| 946   | art     | Necessary Maintenance | Accepted | Review and provide precise definitions of each signal watchpoint.                                   | Christopher Green | 10/23/2017 12:12 PM |
| 1091  | art     | Milestone             | Accepted | Review all signal emission in the light of sentry considerations and exception safety.              | Christopher Green | 10/23/2017 12:12 PM |
| 13050 | art     | Feature               | Accepted | Request a new variant of T* TFileDirectory::makeAndRegister<T>                                      | Rob Kutschke      | 06/27/2016 12:17 PM |
| 16706 | art     | Feature               | Accepted | Request additional output from EventIDFilter  | Rob Kutschke      | 12/03/2019 12:41 PM |
| 1246  | art     | Feature               | Accepted | Reco on demand not finding products in the file   | Rob Kutschke      | 10/23/2017 12:12 PM |
| 4187  | art     | Feature               | Accepted | Reading in metadata from input files  | Adam Aurisano     | 10/23/2017 12:12 PM |
| 15387 | art     | Feature               | Accepted | Put context information into messagefacility messages   | Marc Paterno      | 05/18/2018 02:57 PM |
| 15388 | art     | Feature               | Accepted | Put context information into exceptions in the places where framework code intercepts them          | Marc Paterno      | 05/18/2018 02:58 PM |
| 3068  | art     | Feature               | Accepted | PtrVectorBase custom streamer could be made more efficient.   | Christopher Green | 10/23/2017 12:12 PM |
| 15785 | art     | Feature               | Accepted | Provide hints for "obvious" typo's in FHiCL parameter names   | Rob Kutschke      | 03/13/2017 11:37 AM |

| #     | Project | Tracker               | Status   | Subject  | Author            | Updated             |
|-------|---------|-----------------------|----------|--|-------------------|---------------------|
| 19010 | art     | Necessary Maintenance | Accepted | Producer for testing backwards compatibility   | Kyle Knoepfel     | 02/19/2018 11:26 AM |
| 1075  | art     | Milestone             | Accepted | Post on the tutorial web site some documentation for FileDumper  | Marc Paterno      | 10/23/2017 12:12 PM |
| 1759  | art     | Feature               | Accepted | Periodic refreshing of histogram files   | Mark Messier      | 10/23/2017 12:12 PM |
| 6681  | art     | Necessary Maintenance | Accepted | ParameterSetRegistry should use a tailored hash function   | Christopher Green | 10/23/2017 12:12 PM |
| 6679  | art     | Necessary Maintenance | Accepted | ParameterSetRegistry DBs should have primary key as blob rather than armored hex.                        | Christopher Green | 10/23/2017 12:12 PM |
| 9999  | art     | Feature               | Accepted | objects and associated metadata in a single vecctor of pairs   | Robert Sulej      | 09/08/2015 03:50 PM |
| 11036 | art     | Feature               | Accepted | multidimensional array support in NTuple product   | Jim Kowalkowski   | 12/07/2015 11:43 AM |
| 21964 | art     | Bug                   | Accepted | Misleading output in case of exceptions  | Giuseppe Cerati   | 02/25/2019 10:25 AM |
| 9822  | art     | Bug                   | Accepted | Misleading diagnostics by art framework  | Pavel Murat       | 08/17/2015 12:11 PM |
| 3629  | art     | Feature               | Accepted | Metadata retained for pure transient data products?  | Rob Kutschke      | 10/23/2017 12:12 PM |
| 3571  | art     | Bug                   | Accepted | Message logger configuration   | Rob Kutschke      | 10/23/2017 12:12 PM |
| 13675 | art     | Bug                   | Accepted | messagefacility sqlite plugin test sporadic failure on OSX   | Marc Paterno      | 08/29/2016 11:35 AM |
| 917   | art     | Necessary Maintenance | Accepted | Make FHICL language document pretty.   | Christopher Green | 10/23/2017 12:12 PM |
| 15394 | art     | Feature               | Accepted | Make cetbuiltools run the static analysis tools  | Marc Paterno      | 02/06/2017 11:19 AM |
| 15393 | art     | Feature               | Accepted | Make available the CMS static analysis tools   | Marc Paterno      | 02/06/2017 11:19 AM |
| 916   | art     | Milestone             | Accepted | Make a note in the cet-is Wiki on detail namespace / header / source file subdirectory.                  | Christopher Green | 10/23/2017 12:12 PM |
| 8845  | art     | Feature               | Accepted | Limited support for analyzers in Python  | Marc Paterno      | 10/23/2017 12:12 PM |
| 910   | art     | Necessary Maintenance | Accepted | Investigate whether Event::fillView_ should use reflex_cast (or its replacement) instead of static_cast. | Christopher Green | 10/23/2017 12:12 PM |
| 15382 | art     | Feature               | Accepted | Introduce thread-pause signaling for debugging   | Marc Paterno      | 05/18/2018 03:08 PM |
| 897   | art     | Necessary Maintenance | Accepted | Institute validation tests for an installed art package.   | Christopher Green | 10/23/2017 12:12 PM |
| 10833 | art     | Bug                   | Accepted | Incorrect framing of information about an exception thrown in the beginRun callback of an art::Service   | Rob Kutschke      | 04/23/2018 10:51 AM |
| 19013 | art     | Necessary Maintenance | Accepted | Implement tests for ensuring backwards compatibility   | Kyle Knoepfel     | 02/19/2018 11:26 AM |
| 19012 | art     | Necessary Maintenance | Accepted | Implement testing procedure for ensuring backwards compatibility   | Kyle Knoepfel     | 02/19/2018 11:26 AM |
| 8771  | art     | Feature               | Accepted | Implement parameter set configuration printout - task 3b of issue #7538                                  | Kyle Knoepfel     | 06/01/2015 11:24 AM |
| 16342 | art     | Feature               | Accepted | Facility to convert fhicl::ParameterSets from art/ROOT file to Python dictionary                         | Kyle Knoepfel     | 05/01/2017 11:51 AM |



| #     | Project | Tracker               | Status           | Subject  | Author                | Updated             |
|-------|---------|-----------------------|------------------|--|-----------------------|---------------------|
| 909   | art     | Bug                   | Accepted         | Event::getView should return false (per design) rather than throw in specified cases.            | Christopher Green     | 10/23/2017 12:12 PM |
| 21412 | art     | Feature               | Accepted         | Enable product-mixing to read from multiple secondary input files per primary event              | Kyle Knoepfel         | 11/20/2018 01:57 PM |
| 1026  | art     | Necessary Maintenance | Accepted         | Duplicated code for branch name element verification   | Marc Paterno          | 10/23/2017 12:12 PM |
| 943   | art     | Feature               | Accepted         | Document in-use parameters for all framework code.   | Christopher Green     | 10/23/2017 12:12 PM |
| 17084 | art     | Necessary Maintenance | Accepted         | Documentation of messagefacility on Redmine wiki is very outdated                                | Gianluca Petrillo     | 07/05/2017 11:56 AM |
| 942   | art     | Milestone             | Accepted         | Design mechanism for library versioning and consistency checks                                   | Christopher Green     | 10/23/2017 12:12 PM |
| 1144  | art     | Milestone             | Accepted         | Defining categories for the error logger   | Rob Kutschke          | 10/23/2017 12:12 PM |
| 19306 | art     | Feature               | Accepted         | create Ptr to product  | Raymond Culbertson    | 03/12/2018 11:47 AM |
| 24925 | art     | Bug                   | Accepted         | counter-intuitive behavior of the "drop on input"  | Pavel Murat           | 09/08/2020 12:38 PM |
| 17407 | art     | Feature               | Accepted         | Configuration description of module  | Gianluca Petrillo     | 09/17/2019 02:16 PM |
| 4704  | art     | Feature               | Accepted         | Command line facility to insert arbitrary configuration items.                                   | Christopher Green     | 10/23/2017 12:12 PM |
| 16354 | art     | Feature               | Accepted         | Check that duplicate events are not processed for an art job                                     | Kyle Knoepfel         | 05/01/2017 11:55 AM |
| 16249 | art     | Bug                   | Accepted         | building art on minsky.fnal.gov  | Lynn Garren           | 04/26/2017 11:34 AM |
| 11035 | art     | Feature               | Accepted         | art producer module in python  | Jim Kowalkowski       | 12/07/2015 11:43 AM |
| 19994 | art     | Feature               | Accepted         | art multi-threading phase 2  | Kyle Knoepfel         | 05/21/2018 10:33 AM |
| 11033 | art     | Feature               | Accepted         | art module in Python   | Jim Kowalkowski       | 04/23/2018 10:51 AM |
| 1043  | art     | Bug                   | Accepted         | art::getFileFormatVersion and art::getFileFormatEra should be renamed                            | Marc Paterno          | 10/23/2017 12:12 PM |
| 19011 | art     | Necessary Maintenance | Accepted         | Analyzer for testing backwards compatibility   | Kyle Knoepfel         | 02/19/2018 11:26 AM |
| 22357 | art     | Feature               | Accepted         | Allow a placeholder for main FHiCL configuration name in output files (RootOutput, TFileService) | Gianluca Petrillo     | 04/15/2019 10:26 AM |
| 918   | art     | Idea                  | Accepted         | Add architecture-specific capture of call stack at time of construction of cet::exception.       | Christopher Green     | 10/23/2017 12:12 PM |
| 11634 | art     | Bug                   | Remission        | Unexpected message from ROOT   | Rob Kutschke          | 02/08/2016 11:21 AM |
| 18305 | art     | Bug                   | Remission        | TimeTracker database output option sometimes causes exception                                    | David Brown           | 12/06/2017 10:00 AM |
| 12857 | art     | Bug                   | Remission        | Build-time dictionary checking has dangerous false positives                                     | Christopher Green     | 06/06/2016 11:40 AM |
| 19846 | art     | Support               | Work in progress | Issues with events coming from different art histories in artdaq                                 | Eric Flumerfelt       | 05/14/2018 10:21 AM |
| 24709 | art     | Support               | Work in progress | art should not hook the ROOT error mechanism (or should provide a way for users to opt-out)      | Christopher Backhouse | 08/17/2020 10:26 AM |
| 15894 | art     | Feature               | Under Discussion | Support RangeSet calculation and use per-schedule and across schedules                           | Kyle Knoepfel         | 05/18/2018 02:55 PM |

| #                   | Project | Tracker | Status           | Subject  | Author           | Updated             |
|---------------------|---------|---------|------------------|--|------------------|---------------------|
| 22225               | art     | Feature | Under Discussion | Request to add a file index offset to PostCloseFileRenamer   | Kurt Biery       | 05/17/2019 11:45 AM |
| 20772               | art     | Feature | Under Discussion | Inherit Configuration from Provenance  | Alexander Himmel | 09/08/2018 04:55 PM |
| 23925               | art     | Feature | Under Discussion | Event resampling support   | Andrei Gaponenko | 02/03/2020 10:27 AM |
| 23582               | art     | Feature | Under Discussion | Allow source modules to use random number engines from the RandomNumberGenerator service.                                  | Rob Kutschke     | 11/13/2019 08:21 AM |
| <b>artdaq (220)</b> |         |         |                  |  |                  |                     |
| 20367               | artdaq  | Bug     | New              | zero length core file on terminate   | Ron Rechenmacher | 07/19/2018 11:03 AM |
| 20433               | artdaq  | Bug     | New              | When I accidentally try to import a configuration from a subdirectory, I get an extra schema.fcl file in that subdirectory | Kurt Biery       | 07/24/2018 03:03 PM |
| 24439               | artdaq  | Support | New              | Use new[] with align parameter in QuickVec to silence Valgrind error in ROOT   | Eric Flumerfelt  | 05/19/2020 04:42 PM |
| 24418               | artdaq  | Feature | New              | Use ExceptionHandler in xmlrpc_commander   | Eric Flumerfelt  | 05/14/2020 01:14 PM |
| 20546               | artdaq  | Bug     | New              | transfer_driver_shmem_multi_t doesn't test non-reliable mode   | Ron Rechenmacher | 08/06/2018 03:10 PM |
| 25359               | artdaq  | Bug     | New              | TRACE_STREAMER used instead of TLOG  | Ron Rechenmacher | 01/03/2021 07:44 PM |
| 15791               | artdaq  | Idea    | New              | To prevent 100% CPU usage by fragment generators, users should have to specify a sleep time in getNext_()                  | John Freeman     | 03/08/2017 05:13 PM |
| 20445               | artdaq  | Idea    | New              | Think about whether EBs sending requests is more reliable than sending routing tables from the RoutingMaster               | Kurt Biery       | 07/25/2018 02:19 PM |
| 20455               | artdaq  | Idea    | New              | Think about ways to support different configuration formats which still maintaining traceability and archiving             | Kurt Biery       | 07/26/2018 10:17 AM |
| 6793                | artdaq  | Idea    | New              | Think about ways to read data from front-ends and discard it between runs  | Kurt Biery       | 01/13/2017 04:04 PM |
| 23050               | artdaq  | Bug     | New              | The number of EB buffers seems to affect whether a demo system continues to take data after an EB crash                    | Kurt Biery       | 08/07/2019 04:54 PM |
| 5980                | artdaq  | Bug     | New              | The Aggregator runs slower when event grouping is enabled  | Kurt Biery       | 01/13/2017 04:37 PM |
| 20294               | artdaq  | Idea    | New              | Sync message in TCPsocketTransfer  | Eric Flumerfelt  | 07/23/2018 02:48 PM |
| 22529               | artdaq  | Idea    | New              | Support the (proto)DUNE DFO Model in artdaq  | Eric Flumerfelt  | 07/25/2019 10:23 AM |
| 20458               | artdaq  | Support | New              | Summary of EventBuilder crashes at protoDUNE July 23-26  | Kurt Biery       | 07/26/2018 11:40 AM |
| 20387               | artdaq  | Bug     | New              | Something set all of my requested trace levels to zero   | Kurt Biery       | 07/25/2018 04:12 PM |
| 20345               | artdaq  | Support | New              | Should we start bundling rgang with artdaq so that we have it available at experiments that we are supporting?             | Kurt Biery       | 07/18/2018 11:43 AM |
| 20373               | artdaq  | Bug     | New              | SBND VST - subrun change from fragment generator not working   | Ron Rechenmacher | 07/23/2018 03:34 PM |
| 20339               | artdaq  | Support | New              | SBND Vertical Slice test   | Kurt Biery       | 07/18/2018 11:45 AM |
| 20340               | artdaq  | Support | New              | run tests and improve the system so we can run at higher rates at protoDUNE  | Kurt Biery       | 08/01/2018 01:13 PM |

| #     | Project | Tracker | Status | Subject   | Author           | Updated             |
|-------|---------|---------|--------|---|------------------|---------------------|
| 21969 | artdaq  | Bug     | New    | run_demo.sh partitioning issue again  | Ron Rechenmacher | 02/23/2019 01:32 PM |
| 20385 | artdaq  | Bug     | New    | run_demo.sh gets inconsistent results for the DAQInterface port when someone else is running the demo on mu2eddaq01 | Kurt Biery       | 07/23/2018 09:11 PM |
| 20969 | artdaq  | Bug     | New    | run_demo.sh defaults to partition 0 in quick-mrb-start.sh   | John Freeman     | 09/27/2018 02:18 PM |
| 20965 | artdaq  | Bug     | New    | run_demo.sh   | Ron Rechenmacher | 09/27/2018 11:33 AM |
| 20386 | artdaq  | Bug     | New    | run_demo (and presumably just_do_it) should not continue when there is a configuration error                        | Kurt Biery       | 07/23/2018 09:13 PM |
| 22535 | artdaq  | Feature | New    | RoutingNetOutput plugin: A version of BinaryNetOutput that receives Routing Tokens                                  | Eric Flumerfelt  | 06/26/2019 03:58 PM |
| 21206 | artdaq  | Idea    | New    | RoutingMaster should always send up-to-date updates   | Eric Flumerfelt  | 10/22/2018 01:47 PM |
| 20764 | artdaq  | Idea    | New    | RoutingMaster learns data rate and adjusts accordingly  | Eric Flumerfelt  | 09/06/2018 02:20 PM |
| 20633 | artdaq  | Feature | New    | rgang trace tools   | Ron Rechenmacher | 08/17/2018 02:16 PM |
| 17878 | artdaq  | Support | New    | request packaging of EPICS BASE, EPICS CSS, and NetSNMP   | Lynn Garren      | 10/11/2017 12:28 PM |
| 11536 | artdaq  | Idea    | New    | Remove rt_priority from BinaryMPIOutput_module?   | Kurt Biery       | 01/13/2017 03:52 PM |
| 5989  | artdaq  | Idea    | New    | Remote monitoring and control recommendations   | Kurt Biery       | 01/13/2017 04:32 PM |
| 20446 | artdaq  | Idea    | New    | Re-examine the handling of subrun rollover messages and subrun pieces in art  | Kurt Biery       | 07/25/2018 02:31 PM |

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