

## 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>                       |                                     |                       |                  |   |                 |                     |
| 14368  | ACNET Service                       | Bug                   | Closed           | acnetd is frequently reporting QUEUE_FULL on idle clients | Richard Neswold | 11/03/2016 10:44 AM |
| 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 |
| <b>AD Controls Department (5)</b>              |                                     |                       |                  |   |                 |                     |
| 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 |
| 24152  | AD Controls Department              | Feature               | New              | Conditional Alarm States                                  | Beau Harrison   | 03/09/2020 10:24 AM |
| 24153  | AD Controls Department              | Idea                  | New              | Device Scaling Transforms Audit                           | Beau Harrison   | 03/09/2020 12:30 PM |
| 24157  | AD Controls Department              | Idea                  | New              | Time Series Database                                      | Beau Harrison   | 03/09/2020 04:58 PM |
| <b>AD ESH Department, Interlocks Group (9)</b> |                                     |                       |                  |   |                 |                     |
| 21837  | AD ESH Department, Interlocks Group | Feature               | New              | Failure Transparency                                      | Beau Harrison   | 02/05/2019 08:29 AM |
| 21840  | AD ESH Department, Interlocks Group | Feature               | New              | Unified LEPR/PLC Protocol                                 | Beau Harrison   | 02/05/2019 08:42 AM |
| 21842  | AD ESH Department, Interlocks Group | Feature               | New              | RS-485 Protocol   | Beau Harrison   | 02/06/2019 10:03 AM |
| 21852  | AD ESH Department, Interlocks Group | Feature               | New              | SVG to ApeMan   | Beau Harrison   | 02/06/2019 09:55 AM |
| 21853  | AD ESH Department, Interlocks Group | Feature               | New              | OPC-UA Client   | Beau Harrison   | 02/06/2019 10:03 AM |
| 21839  | AD ESH Department, Interlocks Group | Support               | New              | XWindows Support is Fading                                | Beau Harrison   | 02/05/2019 08:37 AM |
| 21838  | AD ESH Department, Interlocks Group | Idea                  | New              | Remove Shared Memory Model                                | Beau Harrison   | 02/05/2019 08:34 AM |
| 21836  | AD ESH Department, Interlocks Group | Necessary Maintenance | New              | Scientific Linux 6 End of Life                            | Beau Harrison   | 02/05/2019 08:26 AM |
| 21841  | AD ESH Department, Interlocks Group | Necessary Maintenance | New              | LEPR Upgrade  | Beau Harrison   | 02/05/2019 09:17 AM |
| <b>adinstbpm (20)</b>                          |                                     |                       |                  |   |                 |                     |

| #     | Project   | Tracker   | Status   | Subject   | Author       | Updated             |
|-------|-----------|-----------|----------|---|--------------|---------------------|
| 17746 | adinstbpm | Bug       | Rejected | Segfault every other time Acsys is restart  | John Diamond | 10/18/2017 08:19 PM |
| 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 |
| 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 |
| 17719 | adinstbpm | Milestone | New      | Booster operational test of one crate alongside existing BPM system   | John Diamond | 12/29/2017 11:08 AM |
| 18435 | adinstbpm | Milestone | New      | Support for GigE ADCs   | John Diamond | 11/30/2017 09:35 AM |
| 19607 | adinstbpm | Milestone | New      | IOTA ACNET Interface  | John Diamond | 10/17/2018 10:57 AM |
| 19850 | adinstbpm | Milestone | New      | BPM Diagnostics Application   | John Diamond | 05/02/2018 09:28 AM |
| 20350 | adinstbpm | Milestone | New      | IOTA BPM deployment   | John Diamond | 10/17/2018 10:57 AM |
| 20355 | adinstbpm | Milestone | New      | Deploy IOTA BPM hardware  | John Diamond | 08/22/2018 09:28 PM |
| 22493 | adinstbpm | Milestone | New      | PIP2IT BPM Project  | John Diamond | 12/10/2019 08:00 AM |
| 22556 | adinstbpm | Milestone | New      | Support rack-mount server architecture  | John Diamond | 06/14/2019 02:11 PM |
| 23736 | adinstbpm | Milestone | Closed   | IOTA ACNET Interface Change Requests Dec 2019   | John Diamond | 04/08/2020 12:39 PM |
| 18046 | adinstbpm | Task      | New      | Refactor bpmcli 'dump_flash_history' command to be a CLICCommand  | John Diamond | 10/26/2017 04:23 PM |
| 18047 | adinstbpm | Task      | New      | Refactor bpmcli 'help' command to be a CLICCommand  | John Diamond | 10/26/2017 04:24 PM |
| 20551 | adinstbpm | Task      | New      | BPM-level delay configuration   | John Diamond | 08/07/2018 02:38 PM |
| 20665 | adinstbpm | Task      | New      | Support multiple sets of coefficients for 2-D fits  | John Diamond | 08/22/2018 08:51 PM |
| 20666 | adinstbpm | Task      | New      | TCLK-driven arm and TBT readout for IOTA  | John Diamond | 08/22/2018 09:33 PM |
| 20681 | adinstbpm | Task      | New      | bpmd.conf for BBPL15  | John Diamond | 08/26/2018 02:41 PM |
| 20682 | adinstbpm | Task      | New      | bpmd.config for BBPL15  | John Diamond | 08/26/2018 02:41 PM |

### ADMIN (3)

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

### AdministrationOfCloudServices (29)

|       |                               |         |        |   |             |                     |
|-------|-------------------------------|---------|--------|---|-------------|---------------------|
| 12135 | AdministrationOfCloudServices | Bug     | Closed | why does step2 fail sometimes   | Steven Timm | 05/09/2018 09:29 PM |
| 12124 | AdministrationOfCloudServices | Feature | Closed | Add mechanism to automatically update ami's in the various configurations | Steven Timm | 05/09/2018 09:34 PM |
| 12125 | AdministrationOfCloudServices | Feature | Closed | Add version tracking and change log                                       | Steven Timm | 05/09/2018 09:34 PM |
| 12126 | AdministrationOfCloudServices | Feature | Closed | script cleanup of old AMI's   | Steven Timm | 05/09/2018 09:33 PM |
| 12127 | AdministrationOfCloudServices | Feature | Closed | Unit test on completed AMI  | Steven Timm | 05/09/2018 09:33 PM |

| #     | Project                       | Tracker | Status | Subject   | Author      | Updated             |
|-------|-------------------------------|---------|--------|---|-------------|---------------------|
| 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 |
| 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 |
| 12115 | AdministrationOfCloudServices | Task    | Closed | Complete testing of D. Dykstra ELB-free squid   | Steven Timm | 05/09/2018 09:38 PM |
| 12116 | AdministrationOfCloudServices | Task    | Closed | Squid server configuration doesn't match partition size   | Steven Timm | 05/09/2018 09:37 PM |
| 12117 | AdministrationOfCloudServices | Task    | Closed | Make a script to create the Squid-SG security group   | Steven Timm | 05/09/2018 09:37 PM |
| 12118 | AdministrationOfCloudServices | Task    | Closed | Script the process of reconfiguring default SG  | Steven Timm | 05/09/2018 09:36 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 |
| 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 |
| 12122 | AdministrationOfCloudServices | Task    | Closed | Unified Route 53 address across all AWS?  | Steven Timm | 05/09/2018 09:35 PM |
| 12123 | AdministrationOfCloudServices | Task    | Closed | squid servers: tune ELB scale up / scale down levels  | Steven Timm | 05/09/2018 09:34 PM |
| 12129 | AdministrationOfCloudServices | Task    | Closed | See if HTCondor can override storage on existing AMI's  | Steven Timm | 05/09/2018 09:32 PM |
| 12130 | AdministrationOfCloudServices | Task    | Closed | Disable auto-yum updates in AWS images  | Steven Timm | 05/09/2018 09:31 PM |
| 12132 | AdministrationOfCloudServices | Task    | Closed | Move current imaging processes to run on bare metal machines  | Steven Timm | 05/09/2018 09:31 PM |
| 12133 | AdministrationOfCloudServices | Task    | Closed | Clean crud out of step1 image (fefimage-slf6-base)  | Steven Timm | 05/09/2018 09:30 PM |
| 12134 | AdministrationOfCloudServices | Task    | Closed | Test. D. Dykstra work with VPC endpoints  | Steven Timm | 05/09/2018 09:30 PM |
| 12568 | AdministrationOfCloudServices | Task    | Closed | Investigate why we make 2 snapshots   | Steven Timm | 05/09/2018 09:29 PM |
| 12581 | AdministrationOfCloudServices | Task    | Closed | Need to automate AWS key rotation   | Steven Timm | 12/01/2017 04:38 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 |
| 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 |
| 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 |
| 14029 | AdministrationOfCloudServices | Task    | Closed | Monitoring: Make a Google Gratia probe  | Steven Timm | 05/09/2018 09:20 PM |
| 14045 | AdministrationOfCloudServices | Task    | Closed | Can decision engine condor_off -peaceful glideins in hot (expensive zones)  | Steven Timm | 05/09/2018 09:18 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)

|       |                     |         |     |   |                |                     |
|-------|---------------------|---------|-----|---|----------------|---------------------|
| 22790 | AI-for-Accelerators | Feature | New | Full current set data readout and storage | Gabriel Perdue | 06/20/2019 04:41 PM |
|-------|---------------------|---------|-----|---|----------------|---------------------|

| #     | Project             | Tracker   | Status | Subject   | Author         | Updated             |
|-------|---------------------|-----------|--------|---|----------------|---------------------|
| 22794 | AI-for-Accelerators | Feature   | New    | Develop solution for querying stored data   | Gabriel Perdue | 06/20/2019 04:45 PM |
| 22799 | AI-for-Accelerators | Feature   | New    | Build offline training system   | Gabriel Perdue | 06/21/2019 11:44 AM |
| 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 I   | Gabriel Perdue | 06/27/2019 04:25 PM |
| 22833 | AI-for-Accelerators | Feature   | New    | Build a "kick-started" candidate agent  | Gabriel Perdue | 06/27/2019 04:25 PM |
| 22918 | AI-for-Accelerators | Feature   | New    | Data products, part 2   | Gabriel Perdue | 07/11/2019 01:40 PM |
| 22787 | AI-for-Accelerators | Milestone | New    | Data Products, Part 1   | Gabriel Perdue | 06/20/2019 04:44 PM |
| 22839 | AI-for-Accelerators | Milestone | New    | Test algorithm implementation on hardware with hls4ml   | Gabriel Perdue | 06/28/2019 04:40 PM |
| 22922 | AI-for-Accelerators | Milestone | New    | Hall work part 1  | Gabriel Perdue | 07/11/2019 01:42 PM |
| 22932 | AI-for-Accelerators | Milestone | New    | Algorithm development, part 2   | Gabriel Perdue | 07/12/2019 03:18 PM |
| 22942 | AI-for-Accelerators | Milestone | New    | Historical agent  | Gabriel Perdue | 07/15/2019 04:19 PM |
| 22947 | AI-for-Accelerators | Milestone | New    | Project extension exploration, part 1   | Gabriel Perdue | 07/15/2019 04:22 PM |
| 22948 | AI-for-Accelerators | Milestone | New    | Project finalization  | Gabriel Perdue | 07/15/2019 04:23 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 |
| 22792 | AI-for-Accelerators | Task      | New    | Set up long-term storage mechanism for data products  | Gabriel Perdue | 06/20/2019 04:44 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 |
| 22801 | AI-for-Accelerators | Task      | New    | Investigate TF-Agents, home-brew systems  | Gabriel Perdue | 06/21/2019 11:43 AM |
| 22830 | AI-for-Accelerators | Task      | New    | Develop research plan for safe agent behavior   | Gabriel Perdue | 06/27/2019 04:22 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 |
| 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 |
| 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 |
| 22840 | AI-for-Accelerators | Task      | New    | Test full workflow with boards on-hand  | Gabriel Perdue | 06/28/2019 04:38 PM |
| 22841 | AI-for-Accelerators | Task      | New    | Understand input bandwidth requirements   | Gabriel Perdue | 06/28/2019 04:39 PM |
| 22842 | AI-for-Accelerators | Task      | New    | Design ACNET input system for the board   | Gabriel Perdue | 06/28/2019 04:39 PM |
| 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 |
| 22920 | AI-for-Accelerators | Task      | New    | Refine list of required devices and catalogers  | Gabriel Perdue | 07/11/2019 01:39 PM |
| 22921 | AI-for-Accelerators | Task      | New    | Refine long-term storage estimates  | Gabriel Perdue | 07/11/2019 01:40 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 |
| 22933 | AI-for-Accelerators | Task      | New    | Investigate deployment to PC for "slow" inference and training  | Gabriel Perdue | 07/12/2019 03:17 PM |

| #     | Project             | Tracker | Status | Subject   | Author         | Updated             |
|-------|---------------------|---------|--------|---|----------------|---------------------|
| 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 |
| 22935 | AI-for-Accelerators | Task    | New    | Data products, part 3   | Gabriel Perdue | 07/12/2019 03:19 PM |
| 22936 | AI-for-Accelerators | Task    | New    | Finalize list of required devices and catalogers  | Gabriel Perdue | 07/12/2019 03:19 PM |
| 22937 | AI-for-Accelerators | Task    | New    | Finalize long-term storage estimates and required storage horizons  | Gabriel Perdue | 07/12/2019 03:20 PM |
| 22943 | AI-for-Accelerators | Task    | New    | Training mechanism validation   | Gabriel Perdue | 07/15/2019 04:20 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 |

### 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)

|       |                 |           |     |   |                  |                     |
|-------|-----------------|-----------|-----|---|------------------|---------------------|
| 11097 | ANNIE1-Assembly | Bug       | New | Finalize crates and racks                     | 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 |
| 11083 | ANNIE1-Assembly | Milestone | New | Lower inner structure into tank at ANNIE Hall | Matthew Wetstein | 04/06/2016 11:11 PM |
| 11085 | ANNIE1-Assembly | Milestone | New | NCV shipped to FNAL                           | Matthew Wetstein | 04/06/2016 11:08 PM |
| 11086 | ANNIE1-Assembly | Milestone | New | Cabling of the installed tank                 | Matthew Wetstein | 04/06/2016 11:08 PM |
| 11094 | ANNIE1-Assembly | Milestone | New | Cut top of tank                               | Matthew Wetstein | 12/06/2015 12:08 PM |
| 11096 | ANNIE1-Assembly | Milestone | New | Prelim ORC inspection                         | Matthew Wetstein | 04/06/2016 11:12 PM |
| 8576  | ANNIE1-Assembly | Task      | New | Assembly and installation of PMT modules      | Matthew Wetstein | 04/06/2016 11:06 PM |
| 8577  | ANNIE1-Assembly | Task      | New | Water fill                                    | Matthew Wetstein | 01/25/2018 07:11 AM |
| 11078 | ANNIE1-Assembly | Task      | New | Development of PMT installation procedure     | Matthew Wetstein | 04/06/2016 11:05 PM |
| 11079 | ANNIE1-Assembly | Task      | New | Spot testing of PMTs                          | Matthew Wetstein | 04/06/2016 11:05 PM |
| 11080 | ANNIE1-Assembly | Task      | New | Construction of Inner Structure               | Matthew Wetstein | 01/12/2016 02:29 AM |
| 11081 | ANNIE1-Assembly | Task      | New | Practice lower inner structure into tank      | Matthew Wetstein | 04/06/2016 11:06 PM |

| #     | Project         | Tracker | Status | Subject  | Author           | Updated             |
|-------|-----------------|---------|--------|--|------------------|---------------------|
| 11082 | ANNIE1-Assembly | Task    | New    | Access Platform: construction and installation | Matthew Wetstein | 04/06/2016 11:11 PM |
| 11084 | ANNIE1-Assembly | Task    | New    | Construction of NCV                            | Matthew Wetstein | 04/06/2016 11:07 PM |
| 11089 | ANNIE1-Assembly | Task    | New    | Set up water skid and recirculation system     | Matthew Wetstein | 01/25/2018 07:20 AM |
| 11090 | ANNIE1-Assembly | Task    | New    | PMT cabling and shipping                       | Matthew Wetstein | 04/06/2016 11:05 PM |
| 11093 | ANNIE1-Assembly | Task    | New    | Modify top of tank, add round offs             | Matthew Wetstein | 01/12/2016 02:36 PM |
| 11095 | ANNIE1-Assembly | Task    | New    | Populate Crates in Hall                        | Matthew Wetstein | 04/06/2016 11:06 PM |
| 11099 | ANNIE1-Assembly | Task    | New    | Installation of Forward Veto Cabling           | Matthew Wetstein | 04/06/2016 11:07 PM |

#### ANNIE1-Commissioning (6)

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

#### ANNIE1-electronics-design (12)

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

#### ANNIE1-MCstudies (4)

|      |                  |      |     |  |                  |                     |
|------|------------------|------|-----|--|------------------|---------------------|
| 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 |
| 8627 | ANNIE1-MCstudies | Task | New | SciBooNE driven calculation of skyshine rates                    | Matthew Wetstein | 06/04/2015 10:33 AM |

#### ANNIE1-mechanical-design (7)

| #                                    | Project                  | Tracker   | Status | Subject  | Author           | Updated             |
|--------------------------------------|--------------------------|-----------|--------|--|------------------|---------------------|
| 8855                                 | ANNIE1-mechanical-design | Milestone | New    | Design of veto structure                                 | Matthew Wetstein | 08/05/2015 11:55 PM |
| 8572                                 | ANNIE1-mechanical-design | Task      | New    | Fermilab approval for tank purchase                      | Matthew Wetstein | 06/09/2015 02:01 AM |
| 8573                                 | ANNIE1-mechanical-design | Task      | New    | Approval to purchase tank, from IA State Purchasing      | Matthew Wetstein | 05/27/2015 07:54 AM |
| 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 |
| 11076                                | ANNIE1-mechanical-design | Task      | New    | Final decision on liner specs and estimate               | Matthew Wetstein | 01/12/2016 02:33 AM |
| 11092                                | ANNIE1-mechanical-design | Task      | New    | Finish design of PMT holders                             | Matthew Wetstein | 01/22/2016 08:51 AM |
| <b>ANNIE1-MRD-design (4)</b>         |                          |           |        |  |                  |                     |
| 8615                                 | ANNIE1-MRD-design        | Task      | New    | Arrange to get the Kansas/Syracuse PMTs and scintillator | Matthew Wetstein | 06/05/2015 06:42 AM |
| 8616                                 | ANNIE1-MRD-design        | Task      | New    | Follow up on Fermilab PMTs/Scintillator                  | Matthew Wetstein | 06/09/2015 02:02 AM |
| 8617                                 | ANNIE1-MRD-design        | Task      | New    | Follow up with NMSU about keeping the MRD Scintillator   | Matthew Wetstein | 12/18/2015 09:22 AM |
| 8618                                 | ANNIE1-MRD-design        | Task      | New    | Sign over stewardship of the MRD steel                   | Matthew Wetstein | 06/05/2015 06:39 AM |
| <b>ANNIE1-Planning (4)</b>           |                          |           |        |  |                  |                     |
| 8629                                 | ANNIE1-Planning          | Meeting   | New    | Run 1 Mechanical Review                                  | Matthew Wetstein | 01/22/2016 08:51 AM |
| 8630                                 | ANNIE1-Planning          | Meeting   | New    | ANNIE Run 1 Electronics Review                           | Matthew Wetstein | 05/06/2015 09:47 AM |
| 8638                                 | ANNIE1-Planning          | Milestone | New    | Complete TSW for ANNIE experiment                        | Matthew Wetstein | 12/16/2015 11:56 PM |
| 8575                                 | ANNIE1-Planning          | Task      | New    | Contact Stephen Geer about June PAC meeting              | Matthew Wetstein | 05/21/2015 10:07 AM |
| <b>ANNIE1-Staging (6)</b>            |                          |           |        |  |                  |                     |
| 8571                                 | ANNIE1-Staging           | Milestone | New    | Tank Manufacture   | Matthew Wetstein | 12/06/2015 11:38 AM |
| 11077                                | ANNIE1-Staging           | Milestone | New    | Liner: collab buy-in, place order                        | Matthew Wetstein | 01/12/2016 02:32 AM |
| 11091                                | ANNIE1-Staging           | Milestone | New    | Prototype PMT holder                                     | Matthew Wetstein | 04/06/2016 11:10 PM |
| 8633                                 | ANNIE1-Staging           | Task      | New    | MRD + veto system testing                                | Matthew Wetstein | 04/06/2016 11:09 PM |
| 8634                                 | ANNIE1-Staging           | Task      | New    | Order materials for PMT structure                        | Matthew Wetstein | 04/06/2016 11:09 PM |
| 11100                                | ANNIE1-Staging           | Task      | New    | Cables for Forward Veto                                  | Matthew Wetstein | 04/06/2016 11:09 PM |
| <b>ANNIE1-veto-installation (1)</b>  |                          |           |        |  |                  |                     |
| 8856                                 | ANNIE1-veto-installation | Milestone | New    | Installation of Veto structure                           | Matthew Wetstein | 12/06/2015 10:42 AM |
| <b>ANNIE2-Assembly (3)</b>           |                          |           |        |  |                  |                     |
| 18928                                | ANNIE2-Assembly          | Task      | New    | Finish MRD Refurbishment                                 | Matthew Wetstein | 02/09/2018 09:06 AM |
| 18929                                | ANNIE2-Assembly          | Task      | New    | Functional test of new MRD layers                        | Matthew Wetstein | 02/09/2018 09:07 AM |
| 18930                                | ANNIE2-Assembly          | Task      | New    | In situ calibration of MRD layers                        | Matthew Wetstein | 02/09/2018 09:07 AM |
| <b>ANNIE2-electronics-design (6)</b> |                          |           |        |  |                  |                     |

| #                                       | 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 |
| 18934                                   | ANNIE2-electronics-design    | Milestone | New    | Final crate and rack maps                                       | Matthew Wetstein | 02/09/2018 09:15 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 |
| 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> |                              |           |        |   |                  |                     |
| 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 |
| 18933                                   | ANNIE2-electronics-readiness | Task      | New    | Firmware upgrades for KOTO boards (2 different trigger schemes) | Matthew Wetstein | 02/09/2018 09:13 AM |
| <b>ANNIE2-mechanical-design (17)</b>    |                              |           |        |   |                  |                     |
| 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 |
| 18939                                   | ANNIE2-mechanical-design     | Milestone | New    | Identify new tank liner   | Matthew Wetstein | 06/13/2018 01:30 AM |
| 18941                                   | ANNIE2-mechanical-design     | Milestone | New    | Final Review of the Tank Lid design                             | Matthew Wetstein | 02/09/2018 09:48 AM |
| 18556                                   | ANNIE2-mechanical-design     | Task      | New    | Design of the new tank lid                                      | Matthew Wetstein | 01/25/2018 07:34 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 |
| 18564                                   | ANNIE2-mechanical-design     | Task      | New    | Separate voltage regulators from ACDCs to separate board        | Matthew Wetstein | 06/12/2018 09:20 AM |
| 18565                                   | ANNIE2-mechanical-design     | Task      | New    | Final layout of new LAPPD housing                               | Matthew Wetstein | 06/12/2018 09:19 AM |
| 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 |
| 18568                                   | ANNIE2-mechanical-design     | Task      | New    | Finalize design of transparency calibration system              | Matthew Wetstein | 12/14/2017 01:34 PM |
| 18569                                   | ANNIE2-mechanical-design     | Task      | New    | Revise Specification Doc.                                       | Emrah Tiras      | 06/12/2018 09:18 AM |
| 18570                                   | ANNIE2-mechanical-design     | Task      | New    | Finalize experimental layout in the hall                        | Matthew Wetstein | 12/14/2017 01:39 PM |
| 18571                                   | ANNIE2-mechanical-design     | Task      | New    | Finalize design and layout of water system                      | Matthew Wetstein | 01/25/2018 07:40 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 (258)</b>                        |                              |           |        |   |                  |                     |



| #     | 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 |
| 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 |
| 919   | art     | Bug     | Rejected | Investigate report of problem with floating point exception control service.                            | Christopher Green     | 07/25/2013 10:36 AM |
| 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 |
| 961   | art     | Bug     | Rejected | EDProducer to read data products from another event data file.  | Rob Kutschke          | 02/11/2011 11:54 AM |
| 1043  | art     | Bug     | Accepted | art::getFileFormatVersion and art::getFileFormatEra should be renamed                                   | Marc Paterno          | 10/23/2017 12:12 PM |
| 1057  | art     | Bug     | Rejected | Specifying maximum output file size does not work   | Brian Rebel           | 07/25/2013 12:13 PM |
| 1343  | art     | Bug     | Closed   | Configuring the message logger  | Rob Kutschke          | 06/16/2011 01:57 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 |
| 2992  | art     | Bug     | Closed   | "-n -1" no longer means "unlimited" on the command line   | Christopher Backhouse | 01/11/2013 11:10 AM |
| 3119  | art     | Bug     | Closed   | Version 1.02.05 (and develop) have a circular dependency.   | Christopher Green     | 08/09/2013 11:34 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 |
| 3321  | art     | Bug     | Rejected | Services do not call preBeginRun, endJob etc...   | Denis Perevalov       | 01/18/2013 11:09 AM |
| 3553  | art     | Bug     | Closed   | dlopen: cannot load any more object with static TLS   | Andrei Gaponenko      | 10/03/2013 03:15 PM |
| 3571  | art     | Bug     | Accepted | Message logger configuration  | Rob Kutschke          | 10/23/2017 12:12 PM |
| 3647  | art     | Bug     | Closed   | artmod created Module missing needed #include Event.h   | Jan Zirnstien         | 04/23/2013 10:07 AM |
| 3756  | art     | Bug     | Closed   | Make.config in GENIE v3665c   | William Seligman      | 04/23/2013 05:51 PM |
| 5167  | art     | Bug     | Rejected | Data product sizes reported by FileDumperOutput   | Rob Kutschke          | 01/13/2014 12:10 PM |
| 6094  | art     | Bug     | Rejected | Fcl expansion doesn't handle absolute path includes.  | Herbert Greenlee      | 05/01/2014 10:42 AM |
| 6344  | art     | Bug     | Closed   | Filter out output of some art services  | Gianluca Petrillo     | 02/16/2015 10:32 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 |
| 7351  | art     | Bug     | Closed   | root gui bug in v1_12_00  | Herbert Greenlee      | 10/23/2017 12:12 PM |
| 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 |
| 7526  | art     | Bug     | Feedback | Follow up on Parameter Set bloat  | Rob Kutschke          | 10/23/2017 12:12 PM |
| 9822  | art     | Bug     | Accepted | Misleading diagnostics by art framework   | Pavel Murat           | 08/17/2015 12:11 PM |
| 10140 | art     | Bug     | Rejected | Failure to specify option argument can lead to overwritten input files                                  | Kyle Knoepfel         | 09/14/2015 12:06 PM |
| 10386 | art     | Bug     | Rejected | Tentative bug report: Using cetbuildtools v4_12_6 , cmake stage fails..                                 | Paul Lebrun           | 10/05/2015 10:03 AM |
| 10491 | art     | Bug     | Closed   | memory spike at the end of a job  | Andrei Gaponenko      | 12/17/2015 01:33 PM |
| 10544 | art     | Bug     | Closed   | Unexpected error when trying to run MCShower maker  | Jonathan Asaadi       | 12/17/2015 01:42 PM |
| 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 |

| #     | Project | Tracker | Status    | Subject  | Author                | Updated             |
|-------|---------|---------|-----------|--|-----------------------|---------------------|
| 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 |
| 11634 | art     | Bug     | Remission | Unexpected message from ROOT   | Rob Kutschke          | 02/08/2016 11:21 AM |
| 12322 | art     | Bug     | Closed    | Invalid canonical fcl output   | Herbert Greenlee      | 05/24/2016 09:54 AM |
| 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 |
| 12857 | art     | Bug     | Remission | Build-time dictionary checking has dangerous false positives   | Christopher Green     | 06/06/2016 11:40 AM |
| 13274 | art     | Bug     | Accepted  | Some dead links in art wiki: ROOT schema evolution   | Gianluca Petrillo     | 07/18/2016 11:24 AM |
| 13675 | art     | Bug     | Accepted  | messagefacility sqlite plugin test sporadic failure on OSX   | Marc Paterno          | 08/29/2016 11:35 AM |
| 13692 | art     | Bug     | Closed    | Web page for gallery v1_03_06 download has an error  | Marc Paterno          | 08/26/2016 09:51 AM |
| 13833 | art     | Bug     | Rejected  | artmod still produces #include "art/Utilities/InputTag.h"  | Tingjun Yang          | 09/13/2016 03:49 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 |
| 15665 | art     | Bug     | Closed    | gPad->WaitForPrimitive does not work in v6_08_04c  | Rob Kutschke          | 02/28/2017 01:17 PM |
| 16042 | art     | Bug     | Closed    | exception in art v2  | Pavel Murat           | 04/26/2017 11:21 AM |
| 16249 | art     | Bug     | Accepted  | building art on minsky.fnal.gv   | Lynn Garren           | 04/26/2017 11:34 AM |
| 16678 | art     | Bug     | Closed    | segfault running FileDumperOutput on older file with missing dictionaries.                                     | Christopher Green     | 10/18/2017 01:47 PM |
| 18305 | art     | Bug     | Remission | TimeTracker database output option sometimes causes exception  | David Brown           | 12/06/2017 10:00 AM |
| 19890 | art     | Bug     | Closed    | art requires dictionary for non-persistent product   | Raymond Culbertson    | 01/31/2019 02:06 PM |
| 21964 | art     | Bug     | Accepted  | Misleading output in case of exceptions  | Giuseppe Cerati       | 02/25/2019 10:25 AM |
| 24925 | art     | Bug     | Accepted  | counter-intuitive behavior of the "drop on input"  | Pavel Murat           | 09/08/2020 12:38 PM |
| 890   | art     | Feature | Closed    | Review linking of shared libraries.  | Christopher Green     | 07/24/2013 04:01 PM |
| 891   | art     | Feature | Closed    | Migrate simple_plugin Cmake macro to art package.  | Christopher Green     | 12/09/2011 11:44 AM |
| 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 |
| 895   | art     | Feature | Rejected  | Revise ROOT-based I/O to incorporate improvements in CMS code base   | Christopher Green     | 12/09/2011 11:46 AM |
| 898   | art     | Feature | Rejected  | Allow underscores in Product class specifications.   | Christopher Green     | 12/09/2011 11:48 AM |
| 899   | art     | Feature | Rejected  | Should module_label continue to be injected into each module?  | Christopher Green     | 06/26/2012 01:34 PM |
| 900   | art     | Feature | Closed    | EventID should have the subRunID as part of its data   | Christopher Green     | 12/09/2011 11:55 AM |
| 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 |
| 903   | art     | Feature | Rejected  | Create forwarding headers in each library with standard naming (fwd.h).  | Christopher Green     | 07/24/2013 04:44 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 |
| 906   | art     | Feature | Rejected  | Address the mf::service namespace issue.   | Christopher Green     | 12/09/2011 02:28 PM |

| #    | Project | Tracker | Status   | Subject   | Author            | Updated             |
|------|---------|---------|----------|---|-------------------|---------------------|
| 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 |
| 921  | art     | Feature | Rejected | Replace Worker, WorkerT and friends with something with better consistency / problem detection.             | Christopher Green | 12/09/2011 03:03 PM |
| 943  | art     | Feature | Accepted | Document in-use parameters for all framework code.  | Christopher Green | 10/23/2017 12:12 PM |
| 945  | art     | Feature | Rejected | Set up LXR browser for all projects.  | Christopher Green | 12/09/2011 03:09 PM |
| 956  | art     | Feature | Accepted | Testing of signal emission is needed  | Marc Paterno      | 10/23/2017 12:12 PM |
| 963  | art     | Feature | Closed   | EDProducer to read data products from another event data file.  | Rob Kutschke      | 12/09/2011 03:13 PM |
| 1000 | art     | Feature | Assigned | Run/event range   | Eric Church       | 12/03/2019 12:41 PM |
| 1010 | art     | Feature | Rejected | CheckUpsVersion to provide functions usable in IF checks  | Christopher Green | 12/09/2011 03:16 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 |
| 1062 | art     | Feature | Rejected | Quick reference guide for documentation site  | Brian Rebel       | 07/25/2013 01:47 PM |
| 1063 | art     | Feature | Rejected | Make the input line parameters accessible to modules  | Denis Perevalov   | 03/21/2011 05:44 PM |
| 1127 | art     | Feature | Closed   | Re-write art::Group::getProductType() to not use product()  | Christopher Green | 07/19/2012 01:09 PM |
| 1246 | art     | Feature | Accepted | Reco on demand not finding products in the file   | Rob Kutschke      | 10/23/2017 12:12 PM |
| 1316 | art     | Feature | Feedback | Snapshot histogram file   | Mark Messier      | 10/23/2017 12:12 PM |
| 1632 | art     | Feature | Closed   | -e command line option ignored  | Mark Messier      | 07/30/2014 06:29 PM |
| 1758 | art     | Feature | Closed   | Histograms in shared memory   | Mark Messier      | 10/23/2017 12:12 PM |
| 1759 | art     | Feature | Accepted | Periodic refreshing of histogram files  | Mark Messier      | 10/23/2017 12:12 PM |
| 1918 | art     | Feature | Accepted | Thinking ahead to event mixing and art::Ptr to run product  | Rob Kutschke      | 10/23/2017 12:12 PM |
| 2275 | art     | Feature | Rejected | On demand loading of module libraries   | Brian Rebel       | 12/16/2011 11:58 AM |
| 2317 | art     | Feature | Rejected | On demand loading of services when handle is requested  | Brian Rebel       | 08/24/2012 12:17 PM |
| 2325 | art     | Feature | Rejected | query disk size for data objects  | Andrei Gaponenko  | 02/07/2012 01:08 PM |
| 2334 | art     | Feature | Rejected | Another candidate for cetlib?   | Rob Kutschke      | 08/02/2013 02:16 PM |
| 2397 | art     | Feature | Closed   | Interface to the ART "user" database (file's SQLite DB)   | Adam Lyon         | 09/19/2013 03:27 PM |
| 2445 | art     | Feature | Closed   | Request improved error message  | Rob Kutschke      | 10/07/2015 02:00 PM |
| 2463 | art     | Feature | Closed   | Seeding the random engines inside the MixFilter templates   | Rob Kutschke      | 03/02/2012 11:32 AM |
| 2477 | art     | Feature | Closed   | controlling art printouts   | Andrei Gaponenko  | 10/23/2017 12:12 PM |
| 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 |
| 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 |
| 2701 | art     | Feature | Closed   | turn off exception catching   | Herbert Greenlee  | 08/24/2012 12:14 PM |
| 2751 | art     | Feature | Closed   | Use of ART-service in standalone scripts, not depending on ART  | Denis Perevalov   | 08/24/2012 11:59 AM |

| #    | Project | Tracker | Status   | Subject   | Author                | Updated             |
|------|---------|---------|----------|---|-----------------------|---------------------|
| 2815 | art     | Feature | Rejected | Merging/mixing multiple files event-by-event  | Christopher Backhouse | 08/24/2012 12:05 PM |
| 2869 | art     | Feature | Closed   | Access to FCL parameter comments  | Mark Messier          | 08/31/2012 11:11 AM |
| 2886 | art     | Feature | Closed   | All configured services shall be created  | Adam Lyon             | 08/24/2012 11:56 AM |
| 2887 | art     | Feature | Closed   | Allow modules to call library code to register their products                                       | Adam Lyon             | 08/24/2012 12:09 PM |
| 2943 | art     | Feature | Feedback | ResourceWatch utility   | Rob Kutschke          | 10/23/2017 12:12 PM |
| 2948 | art     | Feature | Rejected | fhicl::ParameterSet::print()  | Denis Perevalov       | 09/10/2012 12:25 PM |
| 3055 | art     | Feature | Closed   | art utility for monitoring file size contributions by new objects                                   | Gavin Davies          | 10/01/2015 01:26 PM |
| 3067 | art     | Feature | Closed   | access to ParameterSet of a producer module   | Andrei Gaponenko      | 12/17/2015 01:53 PM |
| 3068 | art     | Feature | Accepted | PtrVectorBase custom streamer could be made more efficient.   | Christopher Green     | 10/23/2017 12:12 PM |
| 3077 | art     | Feature | Rejected | Request comparison functions for art::Ptr   | Rob Kutschke          | 11/02/2012 11:39 AM |
| 3105 | art     | Feature | Rejected | Product Not Found exception is not caught for art::Event::getView()                                 | Brian Rebel           | 02/26/2013 09:54 AM |
| 3188 | art     | Feature | Rejected | Support the routing of corrupt RawEvents to different disk files                                    | Kurt Biery            | 12/18/2012 09:25 AM |
| 3190 | art     | Feature | Closed   | Allow for reconfiguration in a DAQ environment  | Kurt Biery            | 10/23/2017 12:12 PM |
| 3401 | art     | Feature | Closed   | Facility to input metadata from user space  | Andrew Norman         | 09/19/2013 03:15 PM |
| 3629 | art     | Feature | Accepted | Metadata retained for pure transient data products?   | Rob Kutschke          | 10/23/2017 12:12 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 |
| 3768 | art     | Feature | Closed   | Provide command line override for EmptyEvent module parameter firstEvent.                           | Herbert Greenlee      | 06/03/2013 02:13 PM |
| 3773 | art     | Feature | Rejected | Improved ability to control when RootOutput will close and open output files.                       | Herbert Greenlee      | 05/27/2015 09:49 AM |
| 3925 | art     | Feature | Closed   | ValidHandle::id()   | Andrei Gaponenko      | 05/24/2013 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 |
| 4107 | art     | Feature | Closed   | A candidate function for FHICL CPP  | Rob Kutschke          | 10/07/2015 01:52 PM |
| 4187 | art     | Feature | Accepted | Reading in metadata from input files  | Adam Aurisano         | 10/23/2017 12:12 PM |
| 4704 | art     | Feature | Accepted | Command line facility to insert arbitrary configuration items.                                      | Christopher Green     | 10/23/2017 12:12 PM |
| 4907 | art     | Feature | Feedback | Provide Run::isRealData() and SubRun::isRealData()  | Christopher Backhouse | 10/23/2017 12:12 PM |
| 4916 | art     | Feature | Feedback | Implement SelectRuns and SelectSubRuns  | Christopher Backhouse | 10/23/2017 12:12 PM |
| 5474 | art     | Feature | Closed   | Nicer syntax for iterating over std::Handle<std::vector<...   | Christopher Backhouse | 10/23/2017 12:12 PM |
| 5690 | art     | Feature | Closed   | FCL file parameters not properly tracked  | Wesley Ketchum        | 05/01/2014 03:29 PM |
| 5775 | art     | Feature | Feedback | Support for arbitrary, random-file access   | Nathaniel Tagg        | 10/23/2017 12:12 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 |
| 5795 | art     | Feature | Feedback | code version control provenance   | Brendan Kiburg        | 10/23/2017 12:12 PM |
| 6368 | art     | Feature | Closed   | A "print" feature to assist in debugging  | Rob Kutschke          | 11/28/2016 11:58 AM |
| 6387 | art     | Feature | Feedback | Provide versioning API in art_Framework_Core instead of art_Version                                 | Ben Morgan            | 10/23/2017 12:12 PM |

| #     | Project | Tracker | Status   | Subject   | Author                | Updated             |
|-------|---------|---------|----------|---|-----------------------|---------------------|
| 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 |
| 6557  | art     | Feature | Rejected | multi-file product reading for ROOT input module                                | Jim Kowalkowski       | 07/21/2014 11:37 AM |
| 7029  | art     | Feature | Accepted | Use one consistent unit test framework for Art                                  | Ben Morgan            | 10/23/2017 12:12 PM |
| 7081  | art     | Feature | Assigned | SAM Process ID in metadata  | Dominick Rocco        | 12/03/2019 12:41 PM |
| 7177  | art     | Feature | Accepted | service and module testing utilities  | Lynn Garren           | 10/23/2017 12:12 PM |
| 7294  | art     | Feature | Closed   | list dynamic libraries  | Herbert Greenlee      | 10/23/2017 12:12 PM |
| 7322  | art     | Feature | Closed   | Change in fastCloning default value   | Wesley Ketchum        | 10/23/2017 12:12 PM |
| 7662  | art     | Feature | Feedback | Allow absolute include paths in fcls  | Christopher Backhouse | 10/23/2017 12:12 PM |
| 7818  | art     | Feature | Closed   | Request that ProductNotFound rethrow by default                                 | Rob Kutschke          | 10/18/2017 03:00 PM |
| 8271  | art     | Feature | Assigned | Better diagnostics for ProductNotFound with multiple paths                      | Christopher Backhouse | 12/03/2019 12:41 PM |
| 8426  | art     | Feature | Accepted | Understand gradual memory growth and determine if it can be mitigated           | Kyle Knoepfel         | 04/27/2015 11:46 AM |
| 8653  | art     | Feature | Closed   | Build and run art with ROOT6  | Ben Morgan            | 12/17/2015 01:31 PM |
| 8698  | art     | Feature | Closed   | Remove use of Reflex  | Marc Paterno          | 12/17/2015 01:31 PM |
| 8699  | art     | Feature | Closed   | Segregate use of Reflex   | Marc Paterno          | 12/17/2015 01:31 PM |
| 8771  | art     | Feature | Accepted | Implement parameter set configuration printout - task 3b of issue #7538         | Kyle Knoepfel         | 06/01/2015 11:24 AM |
| 8842  | art     | Feature | Closed   | Facility for quick bootstrapping of development                                 | Marc Paterno          | 04/23/2018 11:06 AM |
| 8845  | art     | Feature | Accepted | Limited support for analyzers in Python   | Marc Paterno          | 10/23/2017 12:12 PM |
| 8846  | art     | Feature | Accepted | Support for handling branch aliases   | Marc Paterno          | 04/23/2018 10:51 AM |
| 9803  | art     | Feature | Rejected | Input files with no events  | G2Muon G2Muon         | 10/08/2015 10:26 AM |
| 9999  | art     | Feature | Accepted | objects and associated metadata in a single vecctor of pairs                    | Robert Sulej          | 09/08/2015 03:50 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 |
| 10554 | art     | Feature | Closed   | Save TimeTracker DB to output art-ROOT file or TFileService file.               | Dominick Rocco        | 08/29/2016 11:52 AM |
| 10750 | art     | Feature | Feedback | lazy loading of the parameter set database                                      | Andrei Gaponenko      | 08/29/2016 04:21 PM |
| 10969 | art     | Feature | Closed   | Provide VERSION macro exports   | Eric Flumerfelt       | 08/29/2016 12:07 PM |
| 11026 | art     | Feature | Accepted | Tuple product support   | Jim Kowalkowski       | 04/23/2018 10:51 AM |
| 11033 | art     | Feature | Accepted | art module in Python  | Jim Kowalkowski       | 04/23/2018 10:51 AM |
| 11035 | art     | Feature | Accepted | art producer module in python   | Jim Kowalkowski       | 12/07/2015 11:43 AM |
| 11036 | art     | Feature | Accepted | multidimensional array support in NTuple product                                | Jim Kowalkowski       | 12/07/2015 11:43 AM |
| 11118 | art     | Feature | Closed   | SelectEvents setting should respect filters by default                          | Christopher Backhouse | 08/29/2016 12:08 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 |
| 11156 | art     | Feature | Accepted | Suggestions to update the fhicl documentation                                   | Rob Kutschke          | 12/21/2015 11:21 AM |
| 11495 | art     | Feature | Rejected | FindMany/One interface that works with art::Ptr                                 | Kanika Sachdev        | 01/27/2016 10:50 AM |

| #     | Project | Tracker | Status           | Subject  | Author                | Updated             |
|-------|---------|---------|------------------|--|-----------------------|---------------------|
| 11839 | art     | Feature | Feedback         | Add respondToOpenInputFile method to ResultsProducer                                       | Brian Rebel           | 03/03/2016 03:21 PM |
| 13050 | art     | Feature | Accepted         | Request a new variant of T* TFileDirectory::makeAndRegister<T>                             | Rob Kutschke          | 06/27/2016 12:17 PM |
| 13610 | art     | Feature | Assigned         | Update schema evolution wiki page  | Marc Paterno          | 12/03/2019 12:41 PM |
| 13852 | art     | Feature | Closed           | Stop event loop dynamically end exit with status 0   | Pengfei Ding          | 02/16/2018 12:32 PM |
| 15380 | art     | Feature | Closed           | Introduction of multi-threaded running   | Marc Paterno          | 06/05/2018 03:55 PM |
| 15381 | art     | Feature | Closed           | Migrate code from CMSSW FWCore/Concurrency   | Marc Paterno          | 06/05/2018 03:27 PM |
| 15382 | art     | Feature | Accepted         | Introduce thread-pause signaling for debugging   | Marc Paterno          | 05/18/2018 03:08 PM |
| 15383 | art     | Feature | Closed           | Introduce StreamSchedule, etc.   | Marc Paterno          | 06/05/2018 03:32 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 |
| 15386 | art     | Feature | Closed           | Add basic level of setting context information   | Marc Paterno          | 06/05/2018 03:26 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 |
| 15389 | art     | Feature | Closed           | Get "legacy" modules running using TBB tasks.  | Marc Paterno          | 06/05/2018 03:26 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 |
| 15392 | art     | Feature | Closed           | Introduce "stream" modules   | Marc Paterno          | 06/05/2018 03:55 PM |
| 15393 | art     | Feature | Accepted         | Make available the CMS static analysis tools   | Marc Paterno          | 02/06/2017 11:19 AM |
| 15394 | art     | Feature | Accepted         | Make cetbuiltools run the static analysis tools  | Marc Paterno          | 02/06/2017 11:19 AM |
| 15785 | art     | Feature | Accepted         | Provide hints for "obvious" typo's in FHiCL parameter names                                | Rob Kutschke          | 03/13/2017 11:37 AM |
| 15894 | art     | Feature | Under Discussion | Support RangeSet calculation and use per-schedule and across schedules                     | Kyle Knoepfel         | 05/18/2018 02:55 PM |
| 16126 | art     | Feature | Accepted         | Update Allinea Wiki Page With More Useful Documentation                                    | Brian Rebel           | 12/03/2019 12:41 PM |
| 16342 | art     | Feature | Accepted         | Facility to convert fhicl::ParameterSets from art/ROOT file to Python dictionary           | Kyle Knoepfel         | 05/01/2017 11:51 AM |
| 16354 | art     | Feature | Accepted         | Check that duplicate events are not processed for an art job                               | Kyle Knoepfel         | 05/01/2017 11:55 AM |
| 16706 | art     | Feature | Accepted         | Request additional output from EventIDFilter   | Rob Kutschke          | 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 |
| 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 |
| 17407 | art     | Feature | Accepted         | Configuration description of module  | Gianluca Petrillo     | 09/17/2019 02:16 PM |
| 17634 | art     | Feature | Closed           | Consider variants of FindMany and friends that perform lookup by Ptr                       | Christopher Backhouse | 01/02/2018 01:14 PM |
| 18159 | art     | Feature | Closed           | Another request for FileDumperOutput ...   | Rob Kutschke          | 08/20/2018 09:57 AM |

| #     | Project | Tracker | Status           | Subject   | Author                | Updated             |
|-------|---------|---------|------------------|---|-----------------------|---------------------|
| 18628 | art     | Feature | Feedback         | expand Results concept  | Raymond Culbertson    | 01/25/2018 09:30 AM |
| 18923 | art     | Feature | Closed           | Printout option of Memory Tracker service   | Liang Li              | 06/06/2018 08:32 AM |
| 18973 | art     | Feature | Accepted         | Update cetskelgen to use fhicl validation   | Giuseppe Cerati       | 02/12/2018 12:22 PM |
| 19306 | art     | Feature | Accepted         | create Ptr to product   | Raymond Culbertson    | 03/12/2018 11:47 AM |
| 19972 | art     | Feature | Closed           | configuring producing service   | Raymond Culbertson    | 06/06/2018 08:26 AM |
| 19994 | art     | Feature | Accepted         | art multi-threading phase 2   | Kyle Knoepfel         | 05/21/2018 10:33 AM |
| 20772 | art     | Feature | Under Discussion | Inherit Configuration from Provenance   | Alexander Himmel      | 09/08/2018 04:55 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 |
| 22225 | art     | Feature | Under Discussion | Request to add a file index offset to PostCloseFileRenamer  | Kurt Biery            | 05/17/2019 11:45 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 |
| 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 |
| 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 |
| 23925 | art     | Feature | Under Discussion | Event resampling support  | Andrei Gaponenko      | 02/03/2020 10:27 AM |
| 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 |
| 7811  | art     | Support | Closed           | Would like event split and merge functionality in the readin module                                   | Thomas Junk           | 12/23/2015 09:05 AM |
| 8690  | art     | Support | Closed           | Implementing the TEfficiency class in TFileService  | Leon Rochester        | 07/17/2015 09:24 AM |
| 9333  | art     | Support | Closed           | FHiCL Information from Previous Module  | Martin Frank          | 08/14/2015 07:58 AM |
| 9768  | art     | Support | Closed           | art::FindManyP throws if art::Handle is invalid   | Tingjun Yang          | 12/29/2015 10:51 AM |
| 10545 | art     | Support | Closed           | Returning false from EFilter::beginSubRun() does not skip the events                                  | Christopher Backhouse | 12/02/2015 10:50 AM |
| 11107 | art     | Support | Closed           | Release art 1.18.02   | Kyle Knoepfel         | 12/14/2015 11:30 AM |
| 11152 | art     | Support | Closed           | services.scheduler.errorOnFailureToPut should default to true   | John Freeman          | 12/16/2015 10:27 AM |
| 12952 | art     | Support | Closed           | Help NOvA investigate memory usage issues   | Brian Rebel           | 08/22/2016 08:25 AM |
| 13586 | art     | Support | Closed           | Is this the expected behaviour  | Rob Kutschke          | 08/18/2016 12:05 PM |
| 13624 | art     | Support | Closed           | Slow reading of a MicroBooNE highly filtered event file   | Bruce Baller          | 10/03/2016 12:17 PM |
| 13855 | art     | Support | Closed           | Help diagnose apparently misbehaving filter module  | Marc Paterno          | 09/13/2016 05:07 PM |
| 14889 | art     | Support | Closed           | Source module documentation   | Robert Sulej          | 01/09/2017 11:59 AM |
| 17752 | art     | Support | Closed           | art 2.8.3 generating a bus error under GDB (SLF6)   | Gianluca Petrillo     | 10/02/2017 11:53 AM |
| 18376 | art     | Support | Closed           | Output file name length limit.  | Herbert Greenlee      | 11/27/2017 12:17 PM |

| #     | Project | Tracker               | Status           | Subject   | Author                | Updated             |
|-------|---------|-----------------------|------------------|---|-----------------------|---------------------|
| 18971 | art     | Support               | Closed           | Products of type "sumdata::RunData" cannot be aggregated.                                   | Will Foreman          | 02/12/2018 11:29 AM |
| 19599 | art     | Support               | Feedback         | art job influenced by random files  | Andrei Gaponenko      | 09/02/2020 09:11 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 |
| 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 |
| 20849 | art     | Support               | Closed           | safety in art::DataViewImpl::getPointerByLabel(InputTag const& tag)                         | Pavel Murat           | 11/08/2018 02:46 PM |
| 21846 | art     | Support               | Closed           | Do nothing job has VmHWM = 3.6 GB   | Rob Kutschke          | 02/11/2019 11:29 AM |
| 24067 | art     | Support               | Closed           | Compilation error on OSX  | Iker de Icaza Astiz   | 03/25/2020 03:36 PM |
| 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 |
| 24900 | art     | Support               | Closed           | NOvA transitioning Assn creation from art2 to art3  | Brian Rebel           | 09/03/2020 02:51 PM |
| 24920 | art     | Support               | Closed           | art "readFile" errors affecting MicroBooNE production jobs                                  | Matthew Rosenberg     | 09/11/2020 09:09 AM |
| 913   | art     | Idea                  | Rejected         | Review naming conventions in messagefacility.   | Christopher Green     | 12/09/2011 02:49 PM |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 920   | art     | Milestone             | Closed           | Design a mechanism for specifying obsolete parameters with info/warnings when seen.         | Christopher Green     | 10/23/2017 12:12 PM |
| 942   | art     | Milestone             | Accepted         | Design mechanism for library versioning and consistency checks                              | Christopher Green     | 10/23/2017 12:12 PM |
| 1075  | art     | Milestone             | Accepted         | Post on the tutorial web site some documentation for FileDumper                             | Marc Paterno          | 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 |
| 1144  | art     | Milestone             | Accepted         | Defining categories for the error logger  | Rob Kutschke          | 10/23/2017 12:12 PM |
| 15372 | art     | Milestone             | Closed           | art multi-threading phase 1   | Marc Paterno          | 06/05/2018 04:09 PM |
| 897   | art     | Necessary Maintenance | Accepted         | Institute validation tests for an installed art package.                                    | 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 |



| #     | Project | Tracker               | Status   | Subject  | Author            | Updated             |
|-------|---------|-----------------------|----------|--|-------------------|---------------------|
| 908   | art     | Necessary Maintenance | Accepted | Review structure, code and other aspects of cpp0x and cettlib  | Christopher Green | 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 |
| 917   | art     | Necessary Maintenance | Accepted | Make FHICL language document pretty.   | 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 |
| 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 |
| 1026  | art     | Necessary Maintenance | Accepted | Duplicated code for branch name element verification   | Marc Paterno      | 10/23/2017 12:12 PM |
| 1197  | art     | Necessary Maintenance | Accepted | Unit / regression tests for RootInput random access.   | Christopher Green | 10/23/2017 12:12 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 |
| 4367  | art     | Necessary Maintenance | Closed   | OutputModule problems.   | Christopher Green | 06/07/2016 08:18 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 |
| 5281  | art     | Necessary Maintenance | Closed   | Move to using make_shared() wherever possible and appropriate.   | Christopher Green | 12/03/2019 12:43 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 |
| 6681  | art     | Necessary Maintenance | Accepted | ParameterSetRegistry should use a tailored hash function   | Christopher Green | 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 |
| 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 |
| 13964 | art     | Necessary Maintenance | Closed   | Documentation on how to fill classes.h files   | Gianluca Petrillo | 10/03/2016 11:26 AM |
| 17084 | art     | Necessary Maintenance | Accepted | Documentation of messagefacility on Redmine wiki is very outdated  | Gianluca Petrillo | 07/05/2017 11:56 AM |
| 19010 | art     | Necessary Maintenance | Accepted | Producer for testing backwards compatibility   | Kyle Knoepfel     | 02/19/2018 11:26 AM |
| 19011 | art     | Necessary Maintenance | Accepted | Analyzer for testing 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 |

| #                   | Project | Tracker               | Status           | Subject   | Author            | Updated             |
|---------------------|---------|-----------------------|------------------|---|-------------------|---------------------|
| 19013               | art     | Necessary Maintenance | Accepted         | Implement tests for ensuring backwards compatibility  | Kyle Knoepfel     | 02/19/2018 11:26 AM |
| <b>artdaq (221)</b> |         |                       |                  |   |                   |                     |
| 3887                | artdaq  | Bug                   | Closed           | artdaq cannot currently be cloned onto a Mac.   | Christopher Green | 05/23/2016 10:11 AM |
| 3889                | artdaq  | Bug                   | Closed           | Queuing timeout and depth need to be configurable in event builder and aggregator.              | Christopher Green | 01/27/2018 12:17 PM |
| 3890                | artdaq  | Bug                   | Closed           | Some error conditions in RHandles merely write to stderr when they should throw.                | Christopher Green | 05/23/2016 09:57 AM |
| 4083                | artdaq  | Bug                   | Closed           | Need to verify signal masking in multi-thread applications                                      | Christopher Green | 01/27/2018 12:18 PM |
| 4287                | artdaq  | Bug                   | Closed           | art::Event timestamp  | Alden Fan         | 05/23/2016 10:08 AM |
| 5980                | artdaq  | Bug                   | New              | The Aggregator runs slower when event grouping is enabled                                       | Kurt Biery        | 01/13/2017 04:37 PM |
| 7153                | artdaq  | Bug                   | Closed           | artdaq-core compile errors on Mavericks   | Christopher Green | 09/14/2015 04:57 PM |
| 8581                | artdaq  | Bug                   | Closed           | "Report" requests to Aggregators and EventBuilders before initialization would crash the system | Kurt Biery        | 05/23/2016 10:29 AM |
| 11043               | artdaq  | Bug                   | Closed           | Fix conditional compilation tests on art version  | Kurt Biery        | 05/04/2016 03:11 PM |
| 15242               | artdaq  | Bug                   | Closed           | artdaq build fails on a system with needed libraries already installed in /usr/lib64            | John Freeman      | 02/10/2017 12:43 PM |
| 16360               | artdaq  | Bug                   | Rejected         | artdaq 2.x problems when running with mvapich2  | Kurt Biery        | 03/21/2019 11:37 AM |
| 20328               | artdaq  | Bug                   | Remission        | Routing Master takes a long time (forever?) to Stop (end-run)                                   | Kurt Biery        | 08/06/2018 02:02 PM |
| 20329               | artdaq  | Bug                   | Resolved         | Issue du jour #1 at protoDUNE, 17-Jul-2018: including the dispatcher prevents data from flowing | Kurt Biery        | 07/18/2018 11:56 AM |
| 20330               | artdaq  | Bug                   | Resolved         | Issue du jour #2 at protoDUNE, 17-Jul-2018: the DAQ system only supports 0.7 Hz                 | Kurt Biery        | 08/17/2018 02:14 PM |
| 20331               | artdaq  | Bug                   | Resolved         | Issue du jour #3 at protoDUNE, 17-Jul-2018: we can't run EBs and DLs on separate computers      | Kurt Biery        | 07/18/2018 11:51 AM |
| 20332               | artdaq  | Bug                   | Remission        | Issue du jour #4 at protoDUNE, 17-Jul-2018: EB crashing at start of triggers                    | Kurt Biery        | 07/23/2018 03:45 PM |
| 20334               | artdaq  | Bug                   | Resolved         | EB crash at protoDUNE   | Kurt Biery        | 07/26/2018 11:17 AM |
| 20335               | artdaq  | Bug                   | New              | BoardReader intermittent crash at endrun  | Ron Rechenmacher  | 07/18/2018 08:29 AM |
| 20346               | artdaq  | Bug                   | New              | Failed to connect to shared memory segment with key 0xcee70001                                  | Ron Rechenmacher  | 08/01/2018 02:22 PM |
| 20347               | artdaq  | Bug                   | New              | Dispatcher connection issues can prevent data from flowing in upstream parts of the system      | Kurt Biery        | 07/23/2018 09:19 PM |
| 20348               | artdaq  | Bug                   | Work in progress | OnlineMonitoring reports timeouts while reading events from Dispatcher.                         | Gennadiy Lukhanin | 07/23/2018 03:58 PM |
| 20363               | artdaq  | Bug                   | New              | EventRate and EventSize metrics don't update in EB/DL when dataflow stops                       | Wesley Ketchum    | 07/19/2018 03:18 AM |
| 20365               | artdaq  | Bug                   | Rejected         | Notes from protoDUNE Slack channel, 19-Jul-2018   | Kurt Biery        | 07/19/2018 08:36 AM |

| #     | Project | Tracker | Status | Subject   | Author           | Updated             |
|-------|---------|---------|--------|---|------------------|---------------------|
| 20366 | artdaq  | Bug     | New    | Notes from protoDUNE Slack channel, 19-Jul-2018   | Kurt Biery       | 07/23/2018 09:16 PM |
| 20367 | artdaq  | Bug     | New    | zero length core file on terminate  | Ron Rechenmacher | 07/19/2018 11:03 AM |
| 20372 | artdaq  | Bug     | Closed | SBN om attach   | Ron Rechenmacher | 07/23/2018 12:29 PM |
| 20373 | artdaq  | Bug     | New    | SBND VST - subrun change from fragment generator not working  | Ron Rechenmacher | 07/23/2018 03:34 PM |
| 20383 | artdaq  | Bug     | New    | NetMonOutput (?) should consider an empty destinations block, as well as nonblocking_sends:true when considering whether to block | Kurt Biery       | 07/23/2018 09:12 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 |
| 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 |
| 20387 | artdaq  | Bug     | New    | Something set all of my requested trace levels to zero  | Kurt Biery       | 07/25/2018 04:12 PM |
| 20398 | artdaq  | Bug     | New    | Error messages say that "use_data_thread" needs to be set, when in fact the parameter is named "separate_data_thread"             | Kurt Biery       | 07/23/2018 09:16 PM |
| 20403 | artdaq  | Bug     | Closed | SBND - SHM - artdaq::SharedMemoryManager::GetBufferForReading() skipping/dropping buffers/fragments/events                        | Ron Rechenmacher | 09/27/2018 08:36 AM |
| 20404 | artdaq  | Bug     | New    | EventBuilders stop dataflow when there is a configured rootNetOutput module, but no Dispatcher running                            | Kurt Biery       | 07/23/2018 04:14 PM |

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