

## Unassigned Issues

| #  | Project                             | Tracker               | Status           | Subject   | Author          | Updated             |
|--|-------------------------------------|-----------------------|------------------|---|-----------------|---------------------|
| <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 (1)</b>              |                                     |                       |                  |   |                 |                     |
| 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> |                                     |                       |                  |   |                 |                     |
| 21836  | AD ESH Department, Interlocks Group | Necessary Maintenance | New              | Scientific Linux 6 End of Life                                      | Beau Harrison   | 02/05/2019 08:26 AM |
| 21837  | AD ESH Department, Interlocks Group | Feature               | New              | Failure Transparency  | Beau Harrison   | 02/05/2019 08:29 AM |
| 21838  | AD ESH Department, Interlocks Group | Idea                  | New              | Remove Shared Memory Model  | Beau Harrison   | 02/05/2019 08:34 AM |
| 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 |
| 21841  | AD ESH Department, Interlocks Group | Necessary Maintenance | New              | LEPR Upgrade  | Beau Harrison   | 02/05/2019 09:17 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 |
| <b>adinstbpm (18)</b>                          |                                     |                       |                  |   |                 |                     |
| 17719  | adinstbpm                           | Milestone             | New              | Booster operational test of one crate alongside existing BPM system | John Diamond    | 12/29/2017 11:08 AM |
| 17746  | adinstbpm                           | Bug                   | Rejected         | Segfault every other time Acsys is restart                          | John Diamond    | 10/18/2017 08:19 PM |
| 18046  | adinstbpm                           | Task                  | New              | Refactor bpmcli 'dump_flash_history' command to be a CLICommand     | John Diamond    | 10/26/2017 04:23 PM |
| 18047  | adinstbpm                           | Task                  | New              | Refactor bpmcli 'help' command to be a CLICommand                   | John Diamond    | 10/26/2017 04:24 PM |
| 18197  | adinstbpm                           | Bug                   | New              | Why do soft reboots sometime hang?                                  | John Diamond    | 11/10/2017 10:14 AM |
| 18435  | adinstbpm                           | Milestone             | New              | Support for GigE ADCs   | John Diamond    | 11/30/2017 09:35 AM |

| #     | Project   | Tracker   | Status | Subject   | Author       | Updated             |
|-------|-----------|-----------|--------|---|--------------|---------------------|
| 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 |
| 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 |
| 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 |
| 22493 | adinstbpm | Milestone | New    | PIP2IT BPM Project  | John Diamond | 06/14/2019 02:12 PM |
| 22556 | adinstbpm | Milestone | New    | Support rack-mount server architecture  | John Diamond | 06/14/2019 02:11 PM |

### ADMIN (3)

|       |       |         |     |   |                |                     |
|-------|-------|---------|-----|---|----------------|---------------------|
| 7843  | ADMIN | Support | New | Minos FY 2015 SPPM resource spreadsheet                   | Arthur Kreymer | 02/12/2015 10:56 AM |
| 9332  | ADMIN | Bug     | New | Can't open TBrowser in root on minos60                    | Thomas Carroll | 06/30/2015 11:08 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)

|       |                               |         |        |   |             |                     |
|-------|-------------------------------|---------|--------|---|-------------|---------------------|
| 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 |
| 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 |

| #     | Project                       | Tracker | Status | Subject   | Author      | Updated             |
|-------|-------------------------------|---------|--------|---|-------------|---------------------|
| 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 |
| 12129 | AdministrationOfCloudServices | Task    | Closed | See if HTCCondor 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 |
| 12135 | AdministrationOfCloudServices | Bug     | Closed | why does step2 fail sometimes   | Steven Timm | 05/09/2018 09:29 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 |
| 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 |

### 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)

|       |                     |           |     |  |                |                     |
|-------|---------------------|-----------|-----|--|----------------|---------------------|
| 22787 | AI-for-Accelerators | Milestone | New | Data Products, Part 1  | Gabriel Perdue | 06/20/2019 04:44 PM |
| 22790 | AI-for-Accelerators | Feature   | New | Full current set data readout and storage                      | Gabriel Perdue | 06/20/2019 04:41 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 |
| 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 |
| 22801 | AI-for-Accelerators | Task      | New | Investigate TF-Agents, home-brew systems                       | Gabriel Perdue | 06/21/2019 11:43 AM |

| #     | Project             | Tracker   | Status | Subject   | Author         | Updated             |
|-------|---------------------|-----------|--------|---|----------------|---------------------|
| 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 |
| 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 |
| 22833 | AI-for-Accelerators | Feature   | New    | Build a "kick-started" candidate agent  | Gabriel Perdue | 06/27/2019 04:25 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 |
| 22839 | AI-for-Accelerators | Milestone | New    | Test algorithm implementation on hardware with hls4ml   | Gabriel Perdue | 06/28/2019 04:40 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 |
| 22918 | AI-for-Accelerators | Feature   | New    | Data products, part 2   | 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 |
| 22921 | AI-for-Accelerators | Task      | New    | Refine long-term storage estimates  | Gabriel Perdue | 07/11/2019 01:40 PM |
| 22922 | AI-for-Accelerators | Milestone | New    | Hall work part 1  | Gabriel Perdue | 07/11/2019 01:42 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 |
| 22932 | AI-for-Accelerators | Milestone | New    | Algorithm development, part 2   | Gabriel Perdue | 07/12/2019 03:18 PM |
| 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 |
| 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 |
| 22942 | AI-for-Accelerators | Milestone | New    | Historical agent  | Gabriel Perdue | 07/15/2019 04:19 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 |

| #     | Project             | Tracker   | Status | Subject                               | Author         | Updated             |
|-------|---------------------|-----------|--------|---------------------------------------|----------------|---------------------|
| 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 |

### ANNIE1-Assembly (21)

|       |                 |           |     |  |                  |                     |
|-------|-----------------|-----------|-----|--|------------------|---------------------|
| 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 |
| 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 |
| 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 |
| 11082 | ANNIE1-Assembly | Task      | New | Access Platform: construction and installation | Matthew Wetstein | 04/06/2016 11:11 PM |
| 11083 | ANNIE1-Assembly | Milestone | New | Lower inner structure into tank at ANNIE Hall  | Matthew Wetstein | 04/06/2016 11:11 PM |
| 11084 | ANNIE1-Assembly | Task      | New | Construction of NCV                            | Matthew Wetstein | 04/06/2016 11:07 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 |
| 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 |
| 11094 | ANNIE1-Assembly | Milestone | New | Cut top of tank                                | Matthew Wetstein | 12/06/2015 12:08 PM |
| 11095 | ANNIE1-Assembly | Task      | New | Populate Crates in Hall                        | Matthew Wetstein | 04/06/2016 11:06 PM |
| 11096 | ANNIE1-Assembly | Milestone | New | Prelim ORC inspection                          | Matthew Wetstein | 04/06/2016 11:12 PM |
| 11097 | ANNIE1-Assembly | Bug       | New | Finalize crates and racks                      | Matthew Wetstein | 04/06/2016 11:11 PM |
| 11099 | ANNIE1-Assembly | Task      | New | Installation of Forward Veto Cabling           | Matthew Wetstein | 04/06/2016 11:07 PM |

### ANNIE1-Commissioning (6)

|       |                      |           |     |   |                  |                     |
|-------|----------------------|-----------|-----|---|------------------|---------------------|
| 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 |
| 11098 | ANNIE1-Commissioning | Milestone | New | Final ORC review                                    | Matthew Wetstein | 01/25/2018 07:20 AM |

### ANNIE1-electronics-design (12)

| #     | Project                   | Tracker   | Status | Subject  | Author            | Updated             |
|-------|---------------------------|-----------|--------|--|-------------------|---------------------|
| 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 |
| 8816  | ANNIE1-electronics-design | Milestone | New    | What is our calibration system?                      | Matthew Wetstein  | 01/25/2018 07:13 AM |
| 8907  | ANNIE1-electronics-design | Task      | Closed | Ship PSEC eval card to QMUL                          | Matthew Wetstein  | 10/09/2015 01:11 PM |
| 8912  | ANNIE1-electronics-design | Meeting   | Closed | Discuss development of new Central card              | Matthew Wetstein  | 10/09/2015 01:14 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)

|      |                  |      |     |  |                  |                     |
|------|------------------|------|-----|--|------------------|---------------------|
| 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 |
| 8628 | ANNIE1-MCstudies | Bug  | New | Optimization of acrylic volume                                   | Matthew Wetstein | 05/06/2015 09:43 AM |

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

|       |                          |           |     |   |                  |                     |
|-------|--------------------------|-----------|-----|---|------------------|---------------------|
| 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 |
| 8855  | ANNIE1-mechanical-design | Milestone | New | Design of veto structure                            | Matthew Wetstein | 08/05/2015 11:55 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 |

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

|      |                   |      |     |  |                  |                     |
|------|-------------------|------|-----|--|------------------|---------------------|
| 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 |

#### ANNIE1-Planning (4)

| #                                       | Project                      | Tracker   | Status | Subject   | Author           | Updated             |
|---|------------------------------|-----------|--------|---|------------------|---------------------|
| 8575                                    | ANNIE1-Planning              | Task      | New    | Contact Stephen Geer about June PAC meeting                     | Matthew Wetstein | 05/21/2015 10:07 AM |
| 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 |
| <b>ANNIE1-Staging (6)</b>               |                              |           |        |   |                  |                     |
| 8571                                    | ANNIE1-Staging               | Milestone | New    | Tank Manufacture  | Matthew Wetstein | 12/06/2015 11:38 AM |
| 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 |
| 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 |
| 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>    |                              |           |        |   |                  |                     |
| 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>    |                              |           |        |   |                  |                     |
| 18556                                   | ANNIE2-mechanical-design     | Task      | New    | Design of the new tank lid                                      | Matthew Wetstein | 01/25/2018 07:34 AM |

| #     | Project                  | Tracker   | Status | Subject  | Author           | Updated             |
|-------|--------------------------|-----------|--------|--|------------------|---------------------|
| 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 |
| 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 |
| 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 |

#### art (244)

|     |     |                       |          |   |                   |                     |
|-----|-----|-----------------------|----------|---|-------------------|---------------------|
| 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 |
| 897 | art | Necessary Maintenance | Accepted | Institute validation tests for an installed art package.  | Christopher Green | 10/23/2017 12:12 PM |
| 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             |
|------|---------|-----------------------|----------|--|-------------------|---------------------|
| 907  | art     | Necessary Maintenance | Accepted | Review and rationalize use of exceptions across art.   | Christopher Green | 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 |
| 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 |
| 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 |
| 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 |
| 913  | art     | Idea                  | Rejected | Review naming conventions in mesagefacility.   | 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 |
| 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 |
| 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 |
| 917  | art     | Necessary Maintenance | Accepted | Make FHICL language document pretty.   | Christopher Green | 10/23/2017 12:12 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 |
| 919  | art     | Bug                   | Rejected | Investigate report of problem with floating point exception control service.                             | Christopher Green | 07/25/2013 10:36 AM |
| 920  | art     | Milestone             | Closed   | Design a mechanism for specifying obsolete parameters with info/warnings when seen.                      | Christopher Green | 10/23/2017 12:12 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 |
| 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 |
| 942  | art     | Milestone             | Accepted | Design mechanism for library versioning and consistency checks   | Christopher Green | 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 |
| 945  | art     | Feature               | Rejected | Set up LXR browser for all projects.   | Christopher Green | 12/09/2011 03:09 PM |
| 946  | art     | Necessary Maintenance | Accepted | Review and provide precise definitions of each signal watchpoint.  | Christopher Green | 10/23/2017 12:12 PM |
| 956  | art     | Feature               | Accepted | Testing of signal emission is needed   | Marc Paterno      | 10/23/2017 12:12 PM |
| 961  | art     | Bug                   | Rejected | EDProducer to read data products from another event data file.   | Rob Kutschke      | 02/11/2011 11:54 AM |
| 963  | art     | Feature               | Closed   | EDProducer to read data products from another event data file.   | Rob Kutschke      | 12/09/2011 03:13 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 |
| 1010 | art     | Feature               | Rejected | CheckUpsVersion to provide functions usable in IF checks   | Christopher Green | 12/09/2011 03:16 PM |

| #    | Project | Tracker               | Status   | Subject  | Author            | Updated             |
|------|---------|-----------------------|----------|--|-------------------|---------------------|
| 1025 | art     | Feature               | Rejected | end_paths and trigger_paths are now unnecessary and should be retired.                                     | Christopher Green | 07/25/2013 12:03 PM |
| 1026 | art     | Necessary Maintenance | Accepted | Duplicated code for branch name element verification   | Marc Paterno      | 10/23/2017 12:12 PM |
| 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 |
| 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 |
| 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 |
| 1127 | art     | Feature               | Closed   | Re-write art::Group::getProductType() to not use product()   | Christopher Green | 07/19/2012 01:09 PM |
| 1144 | art     | Milestone             | Accepted | Defining categories for the error logger   | Rob Kutschke      | 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 |
| 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 |
| 1343 | art     | Bug                   | Closed   | Configuring the message logger   | Rob Kutschke      | 06/16/2011 01:57 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 fileName[] 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 |
| 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 |
| 2943 | art     | Feature | Feedback | ResourceWatch utility   | Rob Kutschke          | 10/23/2017 12:12 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 |
| 2948 | art     | Feature | Rejected | fhicl::ParameterSet::print()  | Denis Perevalov       | 09/10/2012 12:25 PM |
| 2992 | art     | Bug     | Closed   | "-n -1" no longer means "unlimited" on the command line   | Christopher Backhouse | 01/11/2013 11:10 AM |
| 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 |
| 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 |
| 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 |
| 3321 | art     | Bug     | Rejected | Services do not call preBeginRun, endJob etc...   | Denis Perevalov       | 01/18/2013 11:09 AM |
| 3401 | art     | Feature | Closed   | Facility to input metadata from user space  | Andrew Norman         | 09/19/2013 03:15 PM |
| 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 |
| 3629 | art     | Feature | Accepted | Metadata retained for pure transient data products?   | 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 |
| 3737 | art     | Feature | Closed   | improve the ability to auto detect the need to disable fast cloning                                 | Rob Kutschke          | 08/22/2016 11:27 AM |
| 3756 | art     | Bug     | Closed   | Make.config in GENIE v3665c   | William Seligman      | 04/23/2013 05:51 PM |
| 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 |

| #    | Project | Tracker               | Status   | Subject  | Author                | Updated             |
|------|---------|-----------------------|----------|--|-----------------------|---------------------|
| 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 |
| 4107 | art     | Feature               | Closed   | A candidate function for FHICLCP   | 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 |
| 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 |
| 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 |
| 5167 | art     | Bug                   | Rejected | Data product sizes reported by FileDumperOutput  | Rob Kutschke          | 01/13/2014 12:10 PM |
| 5281 | art     | Necessary Maintenance | Accepted | Move to using make_shared() wherever possible and appropriate.   | Christopher Green     | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 7029 | art     | Feature               | Accepted | Use one consistent unit test framework for Art   | Ben Morgan            | 10/23/2017 12:12 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 |

| #     | Project | Tracker               | Status   | Subject  | Author                | Updated             |
|-------|---------|-----------------------|----------|--|-----------------------|---------------------|
| 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 |
| 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 |
| 7662  | art     | Feature               | Feedback | Allow absolute include paths in fcls   | Christopher Backhouse | 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 |
| 7818  | art     | Feature               | Closed   | Request that ProductNotFound rethrow by default  | Rob Kutschke          | 10/18/2017 03:00 PM |
| 8178  | art     | Necessary Maintenance | Accepted | Testing of drop on input needs improvement   | Marc Paterno          | 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 |
| 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 |
| 8653  | art     | Feature               | Closed   | Build and run art with ROOT6   | Ben Morgan            | 12/17/2015 01:31 PM |
| 8690  | art     | Support               | Closed   | Implementing the TEfficiency class in TFileService   | Leon Rochester        | 07/17/2015 09:24 AM |
| 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 |
| 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 |
| 9803  | art     | Feature               | Rejected | Input files with no events   | G2Muon G2Muon         | 10/08/2015 10:26 AM |
| 9822  | art     | Bug                   | Accepted | Misleading diagnostics by art framework  | Pavel Murat           | 08/17/2015 12:11 PM |
| 9999  | art     | Feature               | Accepted | objects and associated metadata in a single vecctor of pairs   | Robert Sulej          | 09/08/2015 03:50 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 |
| 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 |
| 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 |
| 10545 | art     | Support               | Closed   | Returning false from EDFilter::beginSubRun() does not skip the events                                    | Christopher Backhouse | 12/02/2015 10:50 AM |
| 10554 | art     | Feature               | Closed   | Save TimeTracker DB to output art-ROOT file or TFileService file.  | Dominick Rocco        | 08/29/2016 11:52 AM |

| #     | Project | Tracker               | Status    | Subject  | Author                | Updated             |
|-------|---------|-----------------------|-----------|--|-----------------------|---------------------|
| 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 |
| 10750 | art     | Feature               | Feedback  | lazy loading of the parameter set database   | Andrei Gaponenko      | 08/29/2016 04:21 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 |
| 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 |
| 11107 | art     | Support               | Closed    | Release art 1.18.02  | Kyle Knoepfel         | 12/14/2015 11:30 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 |
| 11152 | art     | Support               | Closed    | services.scheduler.errorOnFailureToPut should default to true  | John Freeman          | 12/16/2015 10:27 AM |
| 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 |
| 11634 | art     | Bug                   | Remission | Unexpected message from ROOT   | Rob Kutschke          | 02/08/2016 11:21 AM |
| 11839 | art     | Feature               | Feedback  | Add respondToOpenInputFile method to ResultsProducer   | Brian Rebel           | 03/03/2016 03:21 PM |
| 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 |
| 12952 | art     | Support               | Closed    | Help NOvA investigate memory usage issues  | Brian Rebel           | 08/22/2016 08:25 AM |
| 13050 | art     | Feature               | Accepted  | Request a new variant of T* TFileDirectory::makeAndRegister<T>   | Rob Kutschke          | 06/27/2016 12:17 PM |
| 13274 | art     | Bug                   | Accepted  | Some dead links in art wiki: ROOT schema evolution   | Gianluca Petrillo     | 07/18/2016 11:24 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 |
| 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 |
| 13852 | art     | Feature               | Closed    | Stop event loop dynamically end exit with status 0   | Pengfei Ding          | 02/16/2018 12:32 PM |
| 13855 | art     | Support               | Closed    | Help diagnose apparently misbehaving filter module   | Marc Paterno          | 09/13/2016 05:07 PM |
| 13964 | art     | Necessary Maintenance | Closed    | Documentation on how to fill classes.h files   | Gianluca Petrillo     | 10/03/2016 11:26 AM |

| #     | Project | Tracker               | Status           | Subject  | Author                | Updated             |
|-------|---------|-----------------------|------------------|--|-----------------------|---------------------|
| 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 |
| 14889 | art     | Support               | Closed           | Source module documentation  | Robert Sulej          | 01/09/2017 11:59 AM |
| 15169 | art     | Idea                  | Accepted         | Support splitting data products by schema evolution  | Gianluca Petrillo     | 01/23/2017 11:20 AM |
| 15372 | art     | Milestone             | Closed           | art multi-threading phase 1  | Marc Paterno          | 06/05/2018 04:09 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 cetbuitools run the static analysis tools   | Marc Paterno          | 02/06/2017 11:19 AM |
| 15618 | art     | Idea                  | Accepted         | Support for reading secondary input files in a special scenario                                      | Rob Kutschke          | 03/13/2017 02:15 PM |
| 15665 | art     | Bug                   | Closed           | gPad->WaitForPrimitive does not work in v6_08_04c  | Rob Kutschke          | 02/28/2017 01:17 PM |
| 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 |
| 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.gov  | Lynn Garren           | 04/26/2017 11:34 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 |
| 16354 | art     | Feature               | Accepted         | Check that duplicate events are not processed for an art job   | Kyle Knoepfel         | 05/01/2017 11:55 AM |
| 16678 | art     | Bug                   | Closed           | segfault running FileDumperOutput on older file with missing dictionaries.                           | Christopher Green     | 10/18/2017 01:47 PM |
| 17084 | art     | Necessary Maintenance | Accepted         | Documentation of messagefacility on Redmine wiki is very outdated                                    | Gianluca Petrillo     | 07/05/2017 11:56 AM |
| 17407 | art     | Feature               | Accepted         | Configuration description of module  | Gianluca Petrillo     | 09/17/2019 02:16 PM |

| #     | Project | Tracker               | Status           | Subject   | Author                | Updated             |
|-------|---------|-----------------------|------------------|---|-----------------------|---------------------|
| 17634 | art     | Feature               | Closed           | Consider variants of FindMany and friends that perform lookup by Ptr                | Christopher Backhouse | 01/02/2018 01:14 PM |
| 17752 | art     | Support               | Closed           | art 2.8.3 generating a bus error under GDB (SLF6)                                   | Gianluca Petrillo     | 10/02/2017 11:53 AM |
| 18159 | art     | Feature               | Closed           | Another request for FileDumperOutput ...  | Rob Kutschke          | 08/20/2018 09:57 AM |
| 18305 | art     | Bug                   | Remission        | TimeTracker database output option sometimes causes exception                       | David Brown           | 12/06/2017 10:00 AM |
| 18376 | art     | Support               | Closed           | Output file name length limit.  | Herbert Greenlee      | 11/27/2017 12:17 PM |
| 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 |
| 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 |
| 18971 | art     | Support               | Closed           | Products of type "sumdata::RunData" cannot be aggregated.                           | William Foreman       | 02/12/2018 11:29 AM |
| 18973 | art     | Feature               | Accepted         | Update cetskelgen to use fhicl validation   | Giuseppe Cerati       | 02/12/2018 12:22 PM |
| 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 |
| 19013 | art     | Necessary Maintenance | Accepted         | Implement tests for ensuring backwards compatibility                                | Kyle Knoepfel         | 02/19/2018 11:26 AM |
| 19306 | art     | Feature               | Accepted         | create Ptr to product   | Raymond Culbertson    | 03/12/2018 11:47 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 |
| 19890 | art     | Bug                   | Closed           | art requires dictionary for non-persistent product                                  | Raymond Culbertson    | 01/31/2019 02:06 PM |
| 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 |
| 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 |
| 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 |
| 21846 | art     | Support               | Closed           | Do nothing job has VmHWM = 3.6 GB   | Rob Kutschke          | 02/11/2019 11:29 AM |
| 21964 | art     | Bug                   | Accepted         | Misleading output in case of exceptions   | Giuseppe Cerati       | 02/25/2019 10:25 AM |
| 22225 | art     | Feature               | Under Discussion | Request to add a file index offset to PostCloseFileRenamer                          | Kurt Biery            | 05/17/2019 11:45 AM |



| #                   | Project | Tracker | Status           | Subject   | Author            | Updated             |
|---------------------|---------|---------|------------------|---|-------------------|---------------------|
| 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 |
| 23174               | art     | Feature | Feedback         | Print the message of STL exceptions   | Gianluca Petrillo | 09/04/2019 09:45 AM |
| 23294               | art     | Bug     | New              | product_sizes_dumper cannot find a file with its xrootd url   | Thomas Junk       | 09/18/2019 03:37 PM |
| <b>artdaq (206)</b> |         |         |                  |   |                   |                     |
| 3186                | artdaq  | Feature | Work in progress | Add fragment ID checking to some combination of RawEvent, EventStore, and builder.cc.                 | Kurt Biery        | 04/09/2019 01:51 PM |
| 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 |
| 5304                | artdaq  | Idea    | Closed           | Handle run-based and spill-based data   | Kurt Biery        | 01/27/2018 12:20 PM |
| 5330                | artdaq  | Feature | Rejected         | Add timeouts to the execution of XMLRPC commands  | Kurt Biery        | 03/21/2019 11:32 AM |
| 5697                | artdaq  | Feature | Closed           | Add a "which" argument to the CommandableFragmentGenerator report method                              | Kurt Biery        | 05/22/2017 12:03 PM |
| 5943                | artdaq  | Support | Closed           | Investigate gcc 4.8.1 optimizer issue in NetMonOutput_module  | Kurt Biery        | 01/27/2018 12:21 PM |
| 5958                | artdaq  | Feature | New              | Add the ability to flag various conditions in a RawEvent  | Kurt Biery        | 01/27/2018 12:23 PM |
| 5959                | artdaq  | Feature | Closed           | Make full use of the file renaming feature(s) in art  | Kurt Biery        | 01/13/2017 04:45 PM |
| 5961                | artdaq  | Idea    | Closed           | Coordinate the requested changes to art for an online environment                                     | Kurt Biery        | 01/27/2018 12:25 PM |
| 5971                | artdaq  | Support | New              | Incorporate control of the Linux system fsync calls into the system                                   | Kurt Biery        | 01/13/2017 04:40 PM |
| 5974                | artdaq  | Feature | Rejected         | Improve the robustness of the automatic pause & resume mechanism                                      | Kurt Biery        | 01/13/2017 04:46 PM |
| 5980                | artdaq  | Bug     | New              | The Aggregator runs slower when event grouping is enabled   | Kurt Biery        | 01/13/2017 04:37 PM |
| 5981                | artdaq  | Idea    | Closed           | Provide general-purpose Run Control functionality   | Kurt Biery        | 05/22/2017 12:04 PM |
| 5982                | artdaq  | Idea    | Closed           | Provide general-purpose configuration management tools and infrastructure                             | Kurt Biery        | 01/13/2017 04:35 PM |
| 5983                | artdaq  | Idea    | Closed           | Provide centralized message logging   | Kurt Biery        | 05/23/2016 10:23 AM |
| 5984                | artdaq  | Feature | New              | Implement the "report" functionality infrastructure   | Kurt Biery        | 01/13/2017 04:35 PM |
| 5985                | artdaq  | Idea    | Rejected         | Redesign the model that is used to provide events to online monitoring                                | Kurt Biery        | 01/13/2017 04:46 PM |
| 5986                | artdaq  | Idea    | Closed           | Investigate whether we can support graceful loss of a small number of EventBuilders                   | Kurt Biery        | 03/21/2019 11:34 AM |

| #    | Project | Tracker | Status   | Subject   | Author            | Updated             |
|------|---------|---------|----------|---|-------------------|---------------------|
| 5987 | artdaq  | Feature | New      | Provide a way to determine the allowed transitions from the state machine dynamically           | Kurt Biery        | 01/13/2017 04:33 PM |
| 5988 | artdaq  | Idea    | Closed   | Provide sample run history tracking   | Kurt Biery        | 01/13/2017 04:33 PM |
| 5989 | artdaq  | Idea    | New      | Remote monitoring and control recommendations   | Kurt Biery        | 01/13/2017 04:32 PM |
| 5999 | artdaq  | Idea    | New      | Investigate the possibility of running compression, etc. in a BoardReader                       | Kurt Biery        | 01/13/2017 04:15 PM |
| 6000 | artdaq  | Idea    | New      | Port the BoardReader code to the RCE  | Kurt Biery        | 01/13/2017 04:14 PM |
| 6033 | artdaq  | Feature | Rejected | Convert to using Ron's shared memory code between the two Aggregators                           | Kurt Biery        | 01/13/2017 04:46 PM |
| 6093 | artdaq  | Idea    | Closed   | Document our recommendations for versioning of overlays, etc.                                   | Kurt Biery        | 01/27/2018 12:29 PM |
| 6463 | artdaq  | Feature | New      | Investigate whether FragmentGenerator state change methods should return a status code          | Kurt Biery        | 01/13/2017 04:13 PM |
| 6782 | artdaq  | Idea    | New      | [LBNE, Mu2e] Investigate ways to provide a two-stage artdaq system                              | Kurt Biery        | 01/13/2017 04:10 PM |
| 6783 | artdaq  | Feature | Closed   | [LBNE] Add timestamps to Init, Start, Stop, Pause, and Resume commands                          | Kurt Biery        | 04/15/2015 12:38 PM |
| 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 |
| 6992 | artdaq  | Feature | New      | Develop test procedures and documents for SQA   | Kurt Biery        | 03/21/2019 11:43 AM |
| 6995 | artdaq  | Feature | New      | Document development procedures for SQA   | Kurt Biery        | 01/13/2017 04:02 PM |
| 6996 | artdaq  | Feature | New      | Add documentation for basic operation and common errors for SQA                                 | Kurt Biery        | 01/13/2017 04:02 PM |
| 7153 | artdaq  | Bug     | Closed   | artdaq-core compile errors on Mavericks   | Christopher Green | 09/14/2015 04:57 PM |
| 7586 | artdaq  | Feature | New      | Add functionality and tools to artdaq for diagnosing and debugging DAQ hardware and firmware    | Kurt Biery        | 01/27/2018 12:31 PM |
| 7658 | artdaq  | Idea    | Closed   | Look into using messages between BoardReaders as a way to trigger readout                       | Kurt Biery        | 05/23/2016 10:35 AM |
| 8343 | artdaq  | Feature | Closed   | Investigate new warnings since we started using art v1_13_01                                    | Kurt Biery        | 02/10/2017 01:03 PM |
| 8441 | artdaq  | Feature | Closed   | Changes necessary to build against art Canopus while continuing to support older art versions   | Christopher Green | 05/23/2016 10:34 AM |
| 8579 | artdaq  | Feature | Closed   | Catch boost exceptions thrown in FragmentGenerator getNext methods [LArIAT]                     | Kurt Biery        | 05/23/2016 10:28 AM |
| 8581 | artdaq  | Bug     | Closed   | "Report" requests to Aggregators and EventBuilders before initialization would crash the system | Kurt Biery        | 05/23/2016 10:29 AM |
| 8587 | artdaq  | Feature | Closed   | Add ability to specify experiment-specific Message Facility configuration [LBNE 35t]            | Kurt Biery        | 05/23/2016 10:30 AM |
| 8588 | artdaq  | Feature | Closed   | Support metrics reporting from FragmentGenerator derived classes                                | Kurt Biery        | 05/23/2016 10:30 AM |
| 8589 | artdaq  | Feature | Closed   | Add a fragment counter metric to BoardReaderCore [LBNE]   | Kurt Biery        | 05/23/2016 10:30 AM |
| 8590 | artdaq  | Feature | Closed   | Develop infrastructure for internally triggering fragment generation [OtS DAQ]                  | Kurt Biery        | 05/23/2016 10:30 AM |
| 9771 | artdaq  | Feature | Closed   | Improve the reporting of problems when various exceptional conditions occur                     | Kurt Biery        | 05/11/2016 01:28 PM |
| 9772 | artdaq  | Feature | Closed   | Use TRACE to print out debug statements in R/SHandles instead of Debug macro(s)                 | Kurt Biery        | 05/23/2016 10:31 AM |

| #     | Project | Tracker | Status   | Subject  | Author          | Updated             |
|-------|---------|---------|----------|--|-----------------|---------------------|
| 10722 | artdaq  | Feature | Closed   | Add Binary output modules for disk writing and sending fragments between artdaq processes                | Kurt Biery      | 05/23/2016 10:32 AM |
| 10723 | artdaq  | Support | Closed   | Remove unnecessary socket bind() call in EventStore  | Kurt Biery      | 05/11/2016 01:24 PM |
| 10724 | artdaq  | Support | Closed   | Add TRACE_NAME and MPI rank debug logging to RHandles and SHandles                                       | Kurt Biery      | 05/23/2016 10:32 AM |
| 11007 | artdaq  | Support | Rejected | ARTDAQ build fails on Darwin   | Eric Flumerfelt | 05/22/2017 09:10 AM |
| 11030 | artdaq  | Feature | Closed   | Provide EventBuilder configuration parameter for number of MPI buffers per BoardReader                   | Kurt Biery      | 01/13/2017 03:56 PM |
| 11041 | artdaq  | Feature | Rejected | Test that the number of buffers is GE the number of data sources in RHandles                             | Kurt Biery      | 01/11/2017 10:15 AM |
| 11043 | artdaq  | Bug     | Closed   | Fix conditional compilation tests on art version   | Kurt Biery      | 05/04/2016 03:11 PM |
| 11536 | artdaq  | Idea    | New      | Remove rt_priority from BinaryMPIOutput_module?  | Kurt Biery      | 01/13/2017 03:52 PM |
| 11690 | artdaq  | Idea    | Closed   | Possible changes to CommandableFragmentGenerator methods and sample child classes                        | Kurt Biery      | 05/04/2016 03:10 PM |
| 11693 | artdaq  | Idea    | New      | Create an artdaq-skeleton (and probably artdaq-core-skeleton) package that users can use to get started. | Kurt Biery      | 01/13/2017 03:51 PM |

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