

ProdSys2 status

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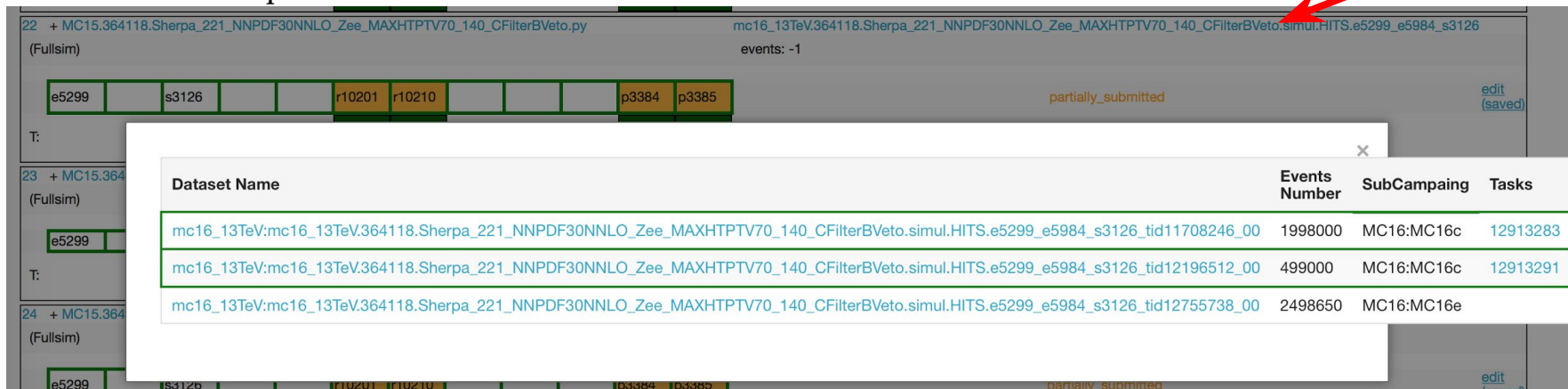
MC16d campaigns

- The MC16d campaign used all possible combinations of input
 - e_s: no evgen merge, no simul merge (for older tasks)
 - e_e_s: evgen merge, no simul merge (most common)
 - e_s_s: no evgen merge, simul merge (small n. evts/job e.g. simul done on HPC, BOINC..)
 - e_e_s_s: evgen merge, simul merge (small n. evts/job e.g. simul done on HPC, BOINC..)
- Datasets needed for subcampaign were moved to 'one' tags container
 - Significantly simplify submission and monitoring for MC production
 - Allow avoiding possible double submission
- Couple of false positive duplicate detection was fixed in the task definition
- Interface was changed to reflect only the suitable input containers
- Dataset name length exceeded limits in both ProdSys and rucio
 - Limits were enlarged, further discussion needed to avoid this situation in the future.



New view for container info

- New interface was developed to trace dataset in the input container
 - See the number of available events
 - Trace problem if some tasks are not defined



The screenshot displays a web interface for container management. At the top, a container is identified as '22 + MC15.364118.Sherpa_221_NNP...'. Below this, a row of colored boxes represents different tasks, with 'e5299', 's3126', 'r10201', 'r10210', 'p3384', and 'p3385' visible. The status 'partially_submitted' is shown. A modal window is open, displaying a table of datasets. A red arrow points to the text 'events: -1' in the background interface.

Dataset Name	Events Number	SubCampaign	Tasks
mc16_13TeV:mc16_13TeV.364118.Sherpa_221_NNP..._00	1998000	MC16:MC16c	12913283
mc16_13TeV:mc16_13TeV.364118.Sherpa_221_NNP..._00	499000	MC16:MC16c	12913291
mc16_13TeV:mc16_13TeV.364118.Sherpa_221_NNP..._00	2498650	MC16:MC16e	



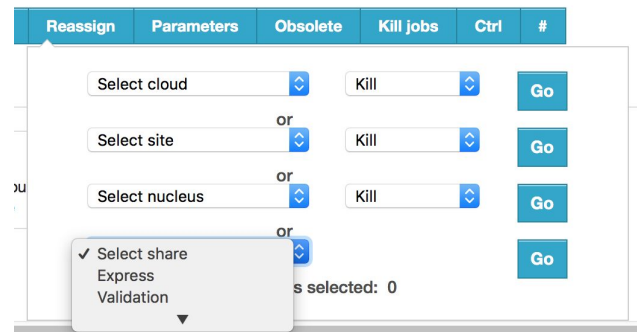
Miscellaneous. Interface

- Task which are in 'finished' state and have some file failed are marked in the interface to make them distinguish from task which is 'finished' because parent is finished



The screenshot shows a task management interface. A task is listed with the ID '13' and the name 'MC15.301053.PowhegPythia8EvtGen_AZNLOCTEQ6L1_DYtautau_2750M3000.py'. The task is in a 'finished' state, indicated by a green bar. A red arrow points to the 'finished' label. The task is also marked as 'partially_submitted', indicated by an orange bar. The interface shows a progress bar with a green segment and a yellow segment. The task is associated with the file 'mc15_13TeV:301053.PowhegPythia8EvtGen_AZNLOCTEQ6L1_DYtautau_2750M3000.evgen.EVNT.e3649' and has 'events: -1 (115000)'. A red arrow also points to the 'partially_submitted' status.

- MC production team ask to show numbers of events for slice(for bookkeeping) and real number of events which is used(set for the step)
- Task global share reassign and killing user jobs were added to task/job actions



The screenshot shows a task management interface with a dropdown menu open. The dropdown menu has the following options: 'Select share', 'Express', and 'Validation'. The 'Select share' option is selected. The interface also shows a 'Kill jobs' button and a 'Go' button. The status 's selected: 0' is visible at the bottom right of the dropdown menu.



Current activity - nEventsPerInputFile

- Right now for MC tasks nEventsPerInputFile is set in the interface and checked by DEFT from rucio
 - For evgen then needed it's taken from jo
 - For other steps it's normally done at the moment of the input container definition
 - Right now we have only one number for a step
 - For MC16d in a container it could be datasets with a different number of per file (E.g. merged and unmerged simul)
 - Merge step could be defined so all dataset in the container become merged
 - Task definition was improved so we could have different values for different datasets.
- In the future, we want to eliminate setting nEventsPerInputFile in DEFT and delegate it to JEDI
 - We start to test it for simple cases
 - Main work will be in the offset calculation procedure
 - All cases which we have now in the system will be tested before we move anything to production



Current activity - Project mode management improvement

- All currently possible project mode options are described on the Twiki
 - https://twiki.cern.ch/twiki/bin/viewauth/AtlasComputing/ProdSys#PROJECT_MODE
- We formalised project mode parameters to use in the different part of the system

- Next steps
 - To have a validation procedure in the interface
 - Provide the list of the default values depending on the step/request parameters

