ATLAS EXPERIMENT

DAST Wishlist

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Shifters Jamboree
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BigPanda: monitoring system

- To track efficiently and quickly the user issue we suggest to modify the main task table as follows:

Task 4459129: user.losterzo.AcerMCPythia_P2011CCTEQ6L1_singletop_tchan_l.p233_v01.nom_mcal_fidcut4/

Task ID	Jobset	Type	WorkingGroup	User	Task status	Ninputfiles | finished | failed	Created	Modified	Cores	Priority	Parent
4459129	18076	analy		Francesco Lo Sterzo	done	146 | 146 (100%)	2014-11-26 08:53	11-26 11:30	1	1000	

- Removing:
- WorkingGroup, Parent, Core, Type (more useful for task production)

- Adding the next fields:
  - Computing site/s where the jobs ´s task run
  - Show all jobs
  - it is included just below but showing it in the table helps to complete the summary of the most useful information that one has to look first and get a quick feedback→ very helpful for the shifters

JEDI: Transition of task status

- **Many users have been reporting on the slowness experienced in the task transition to move from status to another**
- Shifters have **no way at all** to know what is going on!!!
- Some time very frustrating…it is a blinding process for DAST shifters
- **The only means to deal with this kind of issue is to escalate it to Tadashi who fix it in a reasonable time scale Thanks,**
- **BUT we wish to have an unblinding task status transition process!**

- **The transition task status is a complex workflow, so**
- what is the level of granularity can BigPanda visualize in this transition?
- **it is possible to have a tool/simple API that allows the access to the different steps of this process, such a way shifters can have the capability to know where is the issue!!!**
- BigPanda can monitor more deeply the system!!!

JEDI: Brokerage

- The brokerage process in the JEDI Analysis workflow works **as follows:**
  - JEDI **FIRST** runs the brokerage to choose a good site based on data and resource availability,
  - And when JEDI collects job profiles from results of scout jobs, (such as I/O rate, memory consumption, output size, and execution time), runs the brokerage again to find at most 5 good sites,

- **An interesting optimisation at the brokerage level, however**
- **The experience so far** with JEDI shown that the system might still need some tuning to adjust for instance:
  - shipping task to a site hosting data in tape, while other site/s hosting the same data in disk and they are available!!!,
    - Task lasted 4 days waiting for data!
  - shipping task to a site that not hosting data at all!

- **These cause big task slowness to start and failure at the end**
- **A tool to control this and integrate with DDM/BigPanda may help**

Finally…

- To optimize the shifters role in terms of following up the user issues and providing a resolution in a reasonable timescale
  - more tools/monitoring are desirable to provide info. that can help in:
  - **Reducing the frequency of pinging the expects/developers**
    - (more time for developing)
  - **Improving the shifter competence**
  - **Giving to shifters certain power through tools that can help them:**
    - to figure/find out what is going in the backend (up to certain level)
    - to efficiently diagnostic and canalize the issue to the right channel
    - to give a resolution without bothering the developer and expert

The shifter role would become more attractive to recruit new shifters
Positive impact on users who would be more productive in their analysis