

Farm Accounting: SAM-CAB correlation

Goal: understand the source of inefficiency jobs for CAB.

A-The cab database contains a table (job_archive) that is the archive for all the jobs ran on cab.

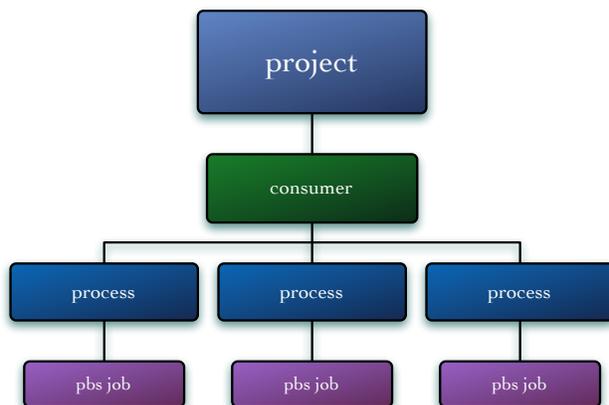
job_archive
id(PK)
jobid
user
name
queue
server
state
times(qtime, ctime,etime,mtime,wall time)
resources (cput,mem,vmem)
submission_host
exec_host
exit_status

From job-archive it is possible to extract the information about the times versus the resources that each job consumed. -> Wall clock time vs cputime.
This information will define the "inefficient jobs".

B-The farms CAB can host different type of jobs:

- 1- SAM
- 2- MC
- 3- (others)

Taken an efficient SAM job, it is possible to extract information about the busy time and the wait time in the SAM data base.



Farm Accounting: SAM-CAB correlation

The correlation between the SAM process and the CAB job is defined by the previous diagram.

Note: The cab id is not unique. A combination of *cab_id+server_id+queue* make a unique key to identify the job in the SAM database.

SAM db: PROCESSES table: correlate the process_desc that is a combination of cab_id+server_name, and extract the process_id. With the process_id access consumed_file where are stored create_date and update_date. A combination of these dates are the busy time and the waiting time for each

