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Task/Job monitoring

Description of Dashboard API

List of requirements

Development server

Task monitoring dashboard development server launched on <http://pcadc01.cern.ch/>

Front page: List of users

List of users, who run jobs during last month.

URL :<http://pcadc01.cern.ch/client/index.html>

Action name: gangataskmonitoring

URL request:

<http://pcadc01.cern.ch/dashboard/request.py/gangataskmonitoring>

Output JSON object format:

```
{"basicData": {"GridName": "UserName1"},... {"GridName": "UserNameN"}}
```

List of tasks

List of tasks for defined user during given time period (from-to) OR timerange

Action name: gangataskstable

Parameters:

- ♦ usergridname,
♦ timerange OR from , to time period in format
♦ typeofrequest=A (currently mandatory)

Example:

- [gangataskstable?usergridname=%22KonstantinosKousouris%22&from=2010-04-02%2018:20&to=2010-04-02%2018:20](http://pcadc01.cern.ch/gangataskstable?usergridname=%22KonstantinosKousouris%22&from=2010-04-02%2018:20&to=2010-04-02%2018:20)

JSON output example:

```
{"user_taskstable": [{"Executable": "cmsRun", "UNKNOWN": 239, "SubmissionType": "direct", "Applic
```

Jobs of chosen tasks

Action name: gangataskjobs

URL request:

Parameters:

- ◆ taskmonitorid;
- ◆ what. Could be :
 - ◇ all - Displays all job states;
 - ◇ P - pending;
 - ◇ R - running;
 - ◇ U - unknown;
 - ◇ S - successful;
 - ◇ F - failed;

Example:

gangataskjobs?taskmonid=kkousour_crab_0_100411_030027_1mv54a&what=all

Output JSON object format example for *what = all* parameter :

```
{"taskjobs": [[{"STATUS": "U", "resubmissions": 1, "EventRange": "1", "started": "2010-04-11 08:0
```

Page details in case of parameter *what=all*

Plots

- Terminated Jobs by Site (grouping by "Site" and "STATUS" values);
- Graphical Overview (used status values(# running, #pending, etc) from Page2 for appropriate task;
- Successful Jobs Distributed by Site (grouping by sites with :success" status);
- Processed Events Cumulative Plot.
 - ◆ **Action name:** proceventscumulativeAlt
 - ◆ **URL request:**
 - ◆ **Parameters:**
 - ◇ taskmonid
 - ◆ **JSON output:**

```
{"totaljobs": [{"TOTAL": #jobs}], {"taskmonid": "taskmonid"}],
```

```
"procevents": [{"NEventsPerJob": #events}], {"taskmonid": "taskmonid"}],
```

```
"succjobs": [{"TOTAL": #jobs, "TOTALEVENTS": #total events}], {"taskmonid": "andersj_pip_e_1_10_5o7w2r"}],
```

```
"meta": { ... }, "allfinished": [{"finished": Timestamp, "Events": #events}, ...], "lastfinished": [{"finished": Timestamp}], {"taskmonid": taskmonid}},
```

```
"firststarted": [{"started": Timestamp}], {"taskmonid": taskmonid}}}
```

Jobs' table

| Column name | Key |
|----------------|---------------------------------------------------------------|
| SchedulerJobId | SchedulerJobId |
| Id in Task | EventRange |
| Status | STATUS; * P - pending; * R - running; * U - unknown; |

| | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | * S - successful; * F - failed; |
| Appl Exit Code | Check STATUS, if "P" or "R" - display "Not yet" JobExecExitCode >-1?JobExecExitCode : Unknown toolTipText: AppGenericStatusReasonValue |
| Grid End Status | GridEndId toolTipText: GridEndReason |
| Retries | resubmissions |
| Site | Site |
| Submitted | submitted |
| Started | started |
| Finished | finished |

JSON output example for *what = F* parameter :

```
{"taskjobs": [{"JobExitReason": " Output file(s) not found", "resubmissions": 1, "EventRange":
```

Resubmitted jobs

Action name: resubmittedjobsAtl

URL request:

Parameters:

| Column name | Key |
|------------------|-----------------|
| JobExitReason | JobExitReason |
| Id in Task | EventRange |
| Appl Exit Code | JobExitCode |
| Appl Exit Reason | AppStatusReason |
| Grid End Status | GridEndId |
| Site | Site |
| Submitted | submitted |
| Started | started |
| Finished | finished |

Example: Request :

```
resubmittedjobsAtl?what=ALL&taskjobid=152060487&taskmonid=aproskur_crab_0_100406_145411_t17n64
```

JSON output example:

```
{"rsJobs": [{"JobExitReason": "CMS exception (CMSSW)", "EventRange": "1", "started": "2010-04-06
```

-- LauraSargsyan - 27-Apr-2010

This topic: ArdaGrid > TaskJobMonitoring

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