

Status of job submission and book-keeping module

Maciej Sitarz

17 czerwca 2010

Current status of job submission component

Done:

- created and tested Python bindings for Cream Client C++ API (to be submitted to Cream developers)
- working whole job submission flow in Python

ToDo:

- find some tools with Python API to handle files (**gsiftp://** protocol, DPNS? DPM?)

Job submission steps

- (Cream) Proxy delegation on specified CE (if we don't already have one)
- Register job to CE
- Upload files to InputSandBox
- Start the job
- Monitor the job status
- Download the job output

Job submission/Cream CE - thoughts

- submissions are quick, about 5-6 sec., similar to command line submissions
(proxy delegation + job register + ISB upload + job start)
- files are being up/downloaded using command line tools, need to switch to some tool with python API
- Rafał's software installation component uses this job submission mechanism
- Only one Cream CE working in belle VO

Current status of book-keeping component

No coding progress yet.

Few decisions made:

- write bookkeeping info to local SQL database (or file, then maybe replication/load balancing)

Classes common for all modules

- Logging class (not used yet)
- Config file handling class (not used yet)

- Scientific Linux 5 chroot environment (Grid UI on your local machine)
- IFJ VPN for remote Grid software development