

org-glast-jobcontrol

org-glast-jobcontrol Project

Overview

The bsub project is a simple system to allow jobs to be submitted to batch from Java. The current system is very simple minded, it allows a job to be created anywhere, and submitted via RMI to a server which submits the jobs to LSF. The interface returns the ID of the submitted job. It is possible to query the status of a submitted job, but not to cancel it.

The [org-glast-jobcontrol home page](#) contains links to the

- [API Docs](#)
- [TLD Docs](#)

There are some examples of use in the talk presented at [this meeting](#).

Implmentation.

Getting the code

The package currently lives in the Glast-Java CVS.

You can access it from:

```
:ext:<userid>@glast-java.slac.stanford.edu:/cvs/java
```

in module org-glast-jobcontrol. This can also be [viewed using ViewCVS](#).

The project is set up to be build using maven. The source code contains only two packages:

| Package | Description |
|------------------------------|---|
| org.glast.jobcontrol | The implementation of the job submission client, and the server |
| org.glast.jobcontro. demo | A view examples of how to use the client |

Server setup

The server is permanently running on glast-jobcontrol01 under user glast. It is installed in ~glast/bsub. It is started by a cron job which runs ~glast/bsub /monitor every 5 minutes, which in turn runs ~glast/bsub/bsub. Note this script starts both the rmiregistry and the JobControlService. The log file is currently written into the /u1/tmp/bsub directory.

Care and maintainance

The server has been running for many months with no problems, so no problems are anticipated.



Tip

lsf maintains a log of all submitted jobs in /var/spool/lsf. This is useful for checking exactly what command was executed by the server.

Installing a new version

If it is necessary to install a new version the procedure is as follows.

Change the version # in the project.xml file. Build a new bsub-<version>.jar file using maven.

- Log in to glast-jobcontrol01 as user glast
- Install the new bsub-<version>.jar (built using maven) in ~glast/bsub
- Modify ~glast/bsub/bsub to use this new version of the jar file
- Kill the current processes using `pkill -f JobControl` and `pkill rmiregistry`
- Start the new server using `bsub/monitor`

It is currently also necessary to publish the new jar file to the glast maven repository. Maven should be setup to do this automatically, but currently I just copy the file by hand to:

```
\\glast05\repository\glast\jars
```