



Enabling Grids for E-science

Batch system support in EGEE-III

Dennis van Dok

Nikhef, Amsterdam

www.eu-egee.org



From the [wiki](#):

Batch System Support is a community driven effort by those that require CE adaption for a specific batch system

In EGEE-III:

Nikhef is going to co-ordinate this effort

Batch system support is rather involved.

- **integration with lcg-CE and CREAM**
 - writing jobmanagers and BLAH plugins
- **writing information providers**
- **writing accounting parts for APEL**
- **creating RPMs**
- **writing YAIM configuration scripts**
- **Documentation**
- **QA**

- **consistency across the board**
- **managing information flow between JRA1, SA3 and SA1 (a.k.a. development, integration and operation)**
- **Release planning (co-ordination within SA3)**
- **Progress monitoring**
- **Quality control**
- **Guardianship of interfaces**

- **Support for a batch system is all or nothing**
 - supported systems must meet all integration goals
 - there is an appointed EGEE partner for every system
 - with manpower to back it
- **Clear boundaries for responsibility of work in integration**
 - **▪ managed interfaces to**
 - BLAH
 - information providers
 - APEL
 - YAIM

(Jeff Templon, SA1)

- **job repository**
- **documentation and standard configuration**
- **watchdog scripts**
- **monitoring (e.g. Nagios)**
- **glxec (process tree, cpu/wall time)**

(Testing, testing, testing)

- Preferably **not** by the same party who does the integration
- **Basic installation and operation testing**
 - Possible on a synthetic test bed
- **Real-life testing**
 - to find ‘weird interaction’ bugs
 - maybe in pre-production?
- **Stress testing**
 - To verify the viability of the solution
 - many jobs ...
 - many queries!

- **Torque/Maui**
 - Nikhef
- **LSF**
 - Who?
- **SGE**
 - CESGA, LIP, Imperial College?
- **Condor**
 - PIC
- **BQS**
 - ?

