CREAM CE PT workplan

Massimo Sgaravatto INFN Padova
On behalf of the CREAM CE product team

www.eu-egee.org

Enabling Grids for E-sciencE

- **Glexec → sudo (task #9557)**
  - Glexec used only once per job submission (just to find the uid to be used in sudo calls)
  - Better performance
  - Will facilitate the integration with Argus
- **New operation QueryEvent (task #11228)**
  - To improve ICE's job status changes detection
- **BLAH release 1.14 (task #10112)**
  - Support for sudo
  - New Blparser model for LSF and Torque/PBS
    - Using the status/history commands instead of parsing the log files
    - Actually a first release was provided with CREAM CE v. 1.5, but not really usable because of some serious bugs
    - Old parser still supported
  - Support of SGE (as contributed by CESGA)
  - Support of proxy subject storage in registry to allow lookup by subject (as requested by MWSG)

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- **Limiter to protect CREAM when the machine is overloaded**
  – New jobs submissions are blocked when this happens
  – Taking into account load, memory usage, # of file descriptors, etc.
  – Very similar to the limiter used in the WMS
- **Support of file transfers from/to gridftp servers started with user credentials**
  – Asked by Condor
- **Several (> 50) bug fixes**

- **Patch #3179 (CREAM, CEMon, BLAH) and patch #3209 (yaim-cream-ce)**
- **Current estimation: January 2010**
- **We are late**
  – Late with CREAM CE v. 1.5
  – QueryEvent was not foreseen in the original plan
  – Issues being addressed

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- **Argus integration (task #7746)**
  - Argus needed (now certified)
  - Gridftpd – Argus integration also needed
    - Done
    - But what about configuration (managed by yaim-core) ?
  - Demonstration of good performance and reliability of Argus in the Glexec on WN use case in a production environment would be needed/appreciated
- **Bug fixes**

- **(Optimistic) estimation: March 15**

- **Support for bulk job submissions (task #7740)**
  - In CREAM and CREAM CLI
- **Initial integration with LB (task #7743)**
  - Allows to monitor via LB all CREAM jobs
  - Allows also integration with dashboad (e.g. Alice requirement)
  - Depends on availability of LB 2.1
- **Bug fixes**

- **(Optimistic) estimation: April 30**
- **Should we have a single release merging 1.7 and 1.8 ?**

eGee

- **Tasks filled considering what is reported in https://twiki.cern.ch/twiki/bin/view/EGEE/SL5Planning**

- **Task #9288: Port CREAM and CEMon server side to sl5_x86_64**
  - Done, but not closed, since the relevant patch (#3260) not released in production yet
- **Task #9291: Port CREAM and CEMon client side to deb5_x86_64**
  - Done, but not closed, since there is not a patch yet (not required)
- **Task #9292: Port CREAM and CEMon client side to sl5_ia32**
  - Done, but not closed, since there is not a patch yet (not required)
- **Task #9293: Port CREAM and CEMon client side to MacOSX**
  - Where is the build page for MacOS ?

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- **Task #9296: Fullfill all the requirements for the migration to CREAM from the LCG-CE**

  https://twiki.cern.ch/twiki/bin/view/LCG/LCGCEtoCREAMCETransition
  - Some of them are not in our control (e.g. Condor submission to CREAM, SAM)
  - Some of them will be provided with CREAM CE v. 1.6 (limiter, new BLAH parser)
  - Some are to be verified (by ?)

- **Task #11557: Support RFC proxies in the CREAM CE**
  - Missing support in util-java and delegation (task #9765, bug #34026)

- **Task #12158: provide support for CREAM SAGA implementation**
  - Providing support to Ole Weidner

- **Task #9295: Proper management of error codes and error messages**
  - Task added as requested by FrancescoG
  - Rules never defined
  - On hold
  -

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- **Task #7742: support for high availability/scalability**
  - Pool of CREAM CE machines seens as a single CREAM CE
  - Difficult to be done within EGEE-III, given the other tasks with higher priority
- **Task #9290: Follow PGI activities**
  - Outcomes of Lund AGU (ARC, Glite, Unicore) workshop being discussed in the PGI mailing list
  - Not sure if something will be done in the CREAM code wrt this task by the end of the project
  - The person in charge of this task (M. Marzolla) and of the standardization activities has recently left the project
- **Task #12358: yaim-cream-ce v. 4.0.9-3**
  - Done but still open since the relevant patches haven't been released in production yet