

## CZ Cluster Summary

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Information Society



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- not many but hard ...
- bulk submission support in WMS
  - ⇒ much higher throughput
  - ⇒ congestion and race conditions in L&B
- non-deterministic, not easily reproducible behaviour

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## Megajob challenge

- inspired by TCG item #304
- handle 1 million jobs per day sustained load on single L&B instance
- **details in Michal's talk on Tuesday**

## Integration of L&B in VDT

- goal: L&B as general tool to track Grid jobs
- L&B “as is” in gLite CVS builds in VDT environment (tiny patches and build wrapper script)
- meeting with VDT team: plans and priorities set up

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## Support of advanced L&B usage

- monitoring tools, job statistics
- help with tuning L&B configuration
- code examples (complex yet efficient L&B queries etc.)
- the first serious usage of L&B web-service interface

## Publications

- IPAW, May 2006, Chicago: “gLite Job Provenance”
- J. Grid. Comp, EGEE User Forum special issue (submitted):  
“Job Tracking on a Grid—the Logging and Bookkeeping  
and Job Provenance Services”

Timescale: by the end of the summer

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## Inter-module dependences cleanup

- clean-up module interfaces
- avoid cyclic L&B ↔ JP subsystem-level dependence
- distinguish between build- and run-time
- we hope Etics helps us, willing to become early adopters



## JP deployment

- start JP on Preview testbed ASAP, get to PPS soon
- introduced in the new SW process as update to 3.0 baseline
- SA1-initiated “job monitoring” workshop:  
clarify details on moving data from L&B to JP and usage of both

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## First Provenance Challenge

- emerged from IPAW'06
- evaluate capabilities of various provenance systems
- run given example experiment
- answer defined provenance queries

## Generic L&B

- goal: enable easy usage of L&B to track non-WMS jobs (Condor, FTS, CREAM, ...)
- already started: using current code, define clear interfaces between:
  - bones – reusable parts, e.g. event transfer and storage
  - flesh – application specific, e.g. event types, job state computation
- “flesh” for non-WMS jobs (end of year)
- declarative way of defining job state computation (master thesis)

## Job Provenance

- evaluate preview deployment feedback (October?)
- further integration: input sandbox upload, user interface (end of year)
- performance evaluation (similar to L&B megajob)
- long-history features
  - users may change their X509 identities
  - file formats evolve
  - purging strategies
- improve “prototype features” (in parallel)
  - fault-sensitive message passing
  - hardcoded Index Server configuration
  - sub-optimal file processing
  - trivial authorization