



Enabling Grids for
E-science in Europe

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Catania Site Report

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- Mega Merge
- LBProxy support
- Job Provenance Integration
- BugFixing
- Open Issues & Future work



- Mega Merge
 - ★ Merging glite_1_4 branch into head.
 - ★ Support in releasing 1.5.
 - ★ Debugging and Testing activities.
 - New boost::filesystem::path creation problems.
 - fs::native check should be used for validating a path even if a string is concatenated to an already instantiated path.
- LBProxy is now supported in NS 1.5 and Head. Purger pretty done and ready to be committed.
- JP integration in Purger 1.5 and Head.
 - ★ InputSanbdoxUpload is triggered by the existence of JobProvenance attribute inside the JDL.
 - Not yet tested.
 - Is there a running JP server we could use for testing?

Major bugfixes

- #9900 (Discussed)
 - ★ InputSandbox Parameter not inherited by nodes in a DAG
 - Fixed
 - 1.4, 1.5, Head
- #12458 (Discussed)
 - ★ Job::listMatchingCE gives incorrect answer (WMS C++ API)
 - Fixed
 - 1.4, 1.5, Head
- #11631
 - ★ The information supermarket in a 1.4 WMS is almost always empty in push mode with a production bdii
 - Fixed
 - 1.4, 1.5, Head
- #11788 (Discussed)
 - ★ glite-job-list-match is very slow in a WMS 1.4 using a bdii
 - Fixed
 - 1.4. To be ported to 1.5 and Head.
- #11704 (Discussed)
 - ★ WM crashes if ism_dump contains entry purchased from rgma and the rgma purchaser is disabled - under progression
 - Still Open

- FuzzyRank.
 - ★ Using such a feature in glite 1.5 in some circumstances kills the WM.
 - Stochastic selector returns an iterator out of the container bound.
 - Fixed in 1.5, Head.
 - Unreproducible in 1.4.

Open Issues & Future Work

- #12742 (Discussed)
 - ★ Memory Leaks in WMS.
 - Under investigation.
- Agreement with Valerio V. on the need of some investigation concerning recent troubles with long chained proxies.
- Still investigating the problem relevant to output retrieval in 1.5
 - ★ Output retrieval works in WMP
 - ★ NS after calling the purger dies

- Changing the direction the matchmaking is actually performed
 - ★ having another implementation of MM which starts screening the space of possible solution from the data requirements
 - The current approach:
 - scanning the space of CE to find authorized CE
 - » compute the space of involved SE
 - » resolve location of files and replicas
 - Proposed approach:
 - Resolve location of files and replicas
 - » Compute the space of involved SE
 - » Scanning ONLY the space of CE close to the SE involved in data requirements
- Could it be useful for job partitioning issues ?