

Ideas for supporting theorists on the (alliance part of) the Grid

...

and some other ideas

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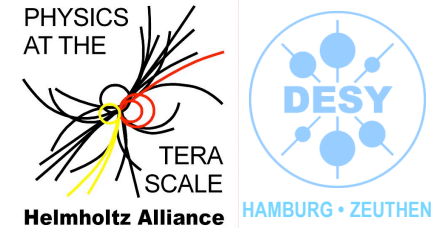
TeraScale Alliance Grid Workshop,
Munich 10.2.09

General context and content

- Meeting on 19.12.08, initiated among others by Thomas
 - Grid Tools
 - New communities on the Grid (e.g. theory)

- Main subject (theory on the Grid) only on last slides :-)

Outcome meeting 19.12.08



■ Interest in Grid Tools by different people

- Consensus among all participants that GridKA-School best place for “knowing more about Grid tools”
- Christopher Jung and YK in contact, already some ideas how to get discussion about Grid tools organized in optimal way during ‘09 GridKA school

■ New communities

- It is seen that the LHC experiments have well established Grid workflows
- Other/New communities in the Alliance (and elsewhere) need to get acquainted with Grid and define their workflows
- Also here, consensus that GridKA School is a good location for discussion

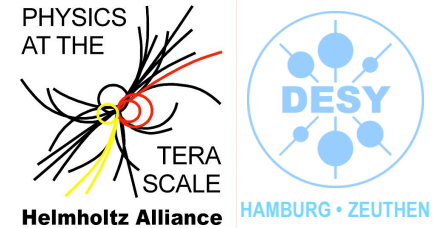
■ HGF Alliance partner of ‘09 GridKA School

- GridKa School has general training sessions, and also dedicated parallel sessions

Ideas for theory@Grid (1)

- **No formal proposal, but collection of ideas from Peter Uwer and YK**
 - Idea: Test the Grid before formulating “hard” request to PB/MB
 - Main use case in mind: Computation with direct relevance for experiment analysis (e.g. LHC NLO-MC)
- **Job profile of some theorists (ideal for Grid):**
 - Small input / output files
 - Memory consumption < 2GB/job
 - Mainly CPU (“1 job=1 core”)
- **Prerequisites**
 - Certificate: Via GridKA. Question: Does every theory group have access to a local “Registration Authority”?
 - Membership in a virtual organisation
 - For testing purpose: GHEP (hosted by DESY) or DGTEST (D-GRID VO)??

Ideas for theory@Grid (2)



- **Possible future steps (even on short-term scale):**
 - Come up with a proposal for PB/MB: Job profile, job volume, people organization, storage,...
 - Create own VO
 - More than computing power: Data storage
 - Storage concept & Access rights
 - Need for high level Grid tools?
- **(Some) potential problems:**
 - 48 CPU/72 WALL configuration might be limiting in the long term
 - Different job profile e.g. multi-threaded
- **Available resources (in the context of the Alliance)**
 - NAF resources in different sites. Fairshare t.b.d. with PB/MB/NUC
 - Other resources?