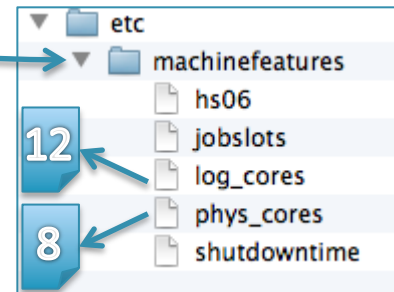# Proposal on how to proceed with Machine/JobFeatures deployment

Stefan Roiser
WLCG Ops Coordination Meeting
20 June '13

Machine / Job Features

- A way to provide <u>individual information</u> about the worker node and job constraints to the VO pilot
- VO pulls info via two environment variables pointing to directories containing files with specific values
  - $MACHINEFEATURES
    - Info on: node power, # log/phys cores, shutdown time
  - $JOBFEATURES
    - Info/job on: # cpus alloc, cpu/wall/mem/disk limit, …

```
▼  📁 etc
  ▶  ▼  📁 machinefeatures
        📄 hs06
   12   📄 jobslots
        📄 log_cores
        📄 phys_cores
   8    📄 shutdowntime
```

VO ← Pull Info ← Resource Provider

+ additional ways to run in virtualized environments *

* See GDB 12 June '13

Tentative Plan

1. Testing of the current installations with interested VOs
   - Check the implementations on batch system currently in production
   - Check completeness of current proposal
2. Work on current batch/IaaS implementations
   - Check portability of current implementations
   - Develop new implementations for other batch/IaaS
3. Deployment
   - Discuss a deployment plan with VOs and sites
   - Execute and monitor the deployment
4. Final report

Resources

Three major working areas:

- Testing of implementations by VOs
  - Resources provided from within the experiments
- Implementations of batch / IaaS systems
  - Site batch/IaaS experts (possibly VO members?)
- Coordination & Infrastructure work (specs, monitoring, intermediate layers, doc, …)
  - CERN IT/SDC/OL members