

A photograph of a bright blue sky filled with fluffy white cumulus clouds. The clouds are scattered across the frame, with some larger, more prominent ones on the right side and smaller, wispy ones on the left. The overall scene is bright and clear.

Batch Virtualization coordination

(and cloud computing at CERN)

CPU benchmarking results:

- Disable EPT on KVM Ixcloud looks like a good idea
- CPU pinning should be done by ONE/ISF. Request to ONE open.
- When doing pinning and switching off EPT a double peak was seen.
 - Idea: check the measurement results for individual VMs as a function of time

Adjustments needed:

- Availability of people
- New LSF master is late
- No solution for dynamic hosts, may have to go for static configuration

Description

Due

- First virtual machines based on ISF in production system 26/11/2010
- ONE production master ready 6/12/2010
- LSF master replacement 19/11/2010 → Jan 2011
- First dynamic virtual nodes in the production system 29/11/2010 → Jan 2011
- 96 virtual machines in the production system 23/12/2010

- First SLC6 release 17/01/2011 (assumption)
 - Migration to SLC6 on hypervisors 23/02/2011
 - First SLC6 golden node 14/03/2011
 - First SLC6 worker node 15/03/2011

- ▶ ISF status (Belmiro)
 - ▶ Master node status
 - ▶ Production release preparation
- ▶ ONE status (Sebastien, Ulrich)
 - ▶ Packaging issues
 - ▶ Master node installation status
- ▶ VM worker node status: Qiulan
 - ▶ CPU optimization and benchmarks with HS06 – review
 - ▶ lozone tests
 - ▶ Networking benchmark updates

Batch system preparation:

- ▶ SLC5 based master nodes not before January 2010
- ▶ Software patches not ready, Platform to be contacted
 - ▶ → batch coordination meeting

CVMFS:

- Experiment requirements for local caches
- Cache performance

/pool space

- Need to take /pool out of the images due to performance issues
- Requires significant changes on the batch worker nodes for grid jobs

Benchmarking tests in production system can start on the 8/12