

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)

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	8/11/2010
• ONE production master ready	12/11/2010
• LSF master replacement	19/11/2010
• First dynamic virtual nodes in the production system	29/11/2010
• 96 virtual machines in the production system	23/12/2010
• First SLC6 release	3/01/2011
• First SLC6 golden node	13/01/2011
• First SLC6 worker node	14/01/2011

- ▶ ISF status (Belmiro)
 - ▶ Patch level
 - ▶ Master node
- ▶ ONE status (Sebastien, Ulrich)
 - ▶ Packaging
 - ▶ Master node installation
- ▶ VM worker node status: Qiulan, Ulrich
 - ▶ KVM, iozone, networking benchmarks
 - ▶ CMS tests by Qiulan
 - ▶ Known issues
- ▶ VMIC, image distribution

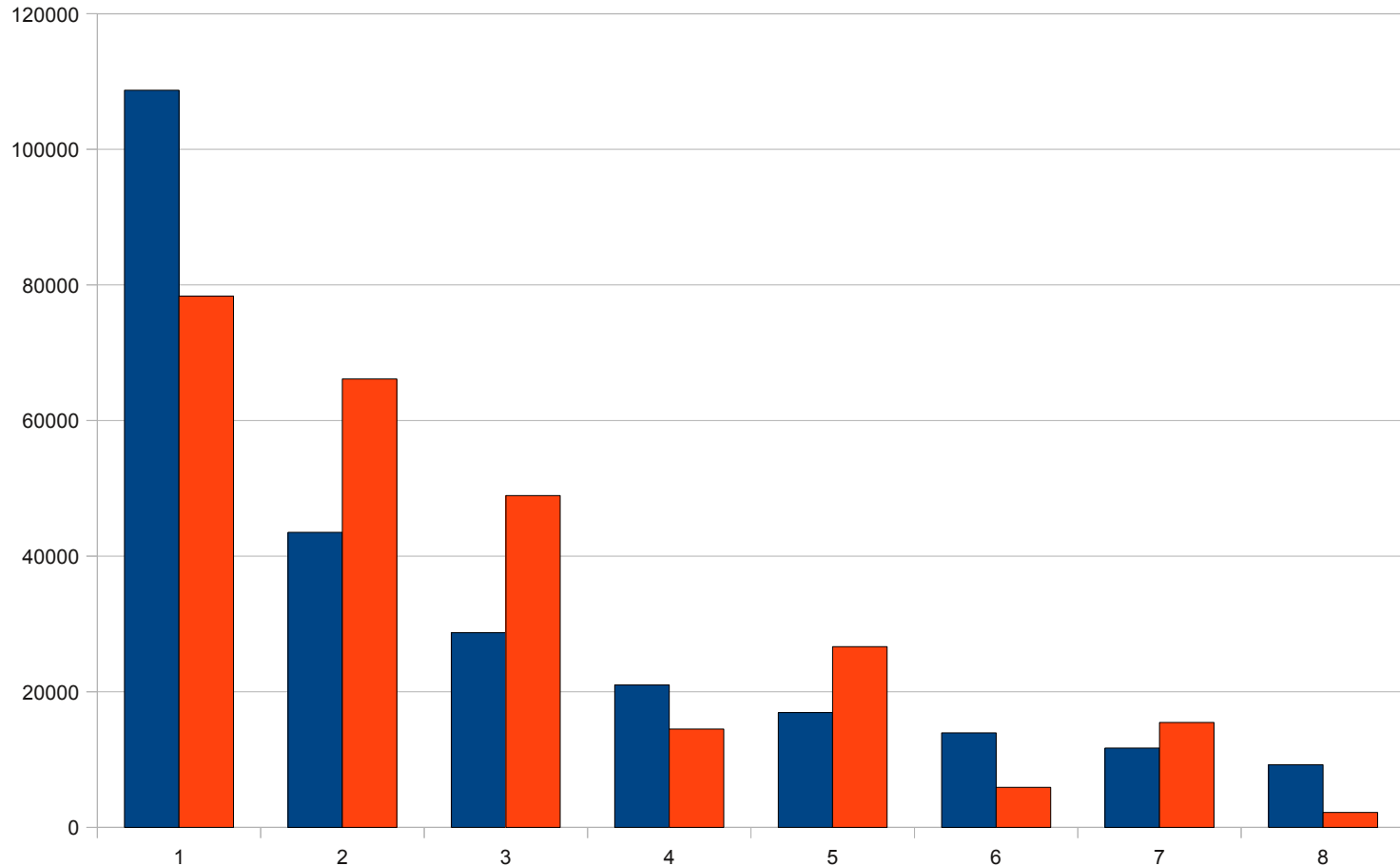
- ▶ Bad LVM snapshot write performance (~10MB/s)
 - ▶ Need external /pool area, one per VM
 - ▶ Allocate on the fly and mount like AFS cache volumes ?
 - ▶ Destroy together with VM
- ▶ CPU performance
 - ▶ VCPU pinning, via libvirsh
 - ▶ RFE to ONE team issued (will be done for ISF as well)
 - ▶ `modprobe kvm-intel enable_ept=0` to be tested

KVM

lozone read performance

VM

Bare metal



KVM

iozone write performance

VM

Bare metal

