

# HW Choices, Setup and Configuration

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- Performance vs. consumption of processors/machines
  - Mainly an issue for WNs
  - Is it enough to look at CPUs ? Or is CPU just part of the problem ?
  - Does blade bring any advantage regarding this issue ?
  - Benchmarks : is it possible for HEP to consolidate benchmarking activities ? Do we need specific benchmarks ?
- What about HW choices for storage ?
  - Probably require more attentions
  - Technology review against performances AND reliability
    - Can we avoid to update disk firmware for 1000s of disks or replace batch of 100s of disks ?
  - Is there one definitive technology ? Do we need to mix several of them ?
  - Does FC SAN or Infiniband has any future in HEP ?

- Do we have the necessary tools to deploy and manage 100s/1000s of nodes at 1 site ?
  - From site survey, it looks like it is ok for deployment but that several sites have concerns about management and configuration changes ?
  - Is upgrading enough or is the ability to rollback also critical when doing massive changes ?
- Reliable services often means redundancy
  - What are the working solutions to avoid SPOFs ?
  - What are the critical services that cannot be made redundant ? In particular what about a redundant CE ?
- Scalability is also critical for reliability (e.g. BDII experience)
  - What's the experience with load sharing technologies ?
  - Are there solutions for stateful services ?