



LAPP :futur

LPNHE:18-19 Juin 2012

Overview

- Infrastructure new
- Remarks and other interrogation

Infrastructure evolution

- A new building (maison de la mecatronique) should be deliver before end of this summer (before end of this year is more realistic)
- Including a computing room of 200 sq meter (dedicated to LAPP)
- 250 kW of cooling (could be increase to 500kW)
 - Building heating is done by this chiller
- 500 kW of power supply
- Moving to this new room will decrease the part of the power cost.
- **Maybe** a 10Gb/s link to LHCONE at first quarter of 2013

Infrastructure evolution



Computing
Room
underground

Remaks, question i have

- Depending of the funding
- Funding at medium and short term are unknown
- end of this talk
- Computing evolution (Worker Node)
 - More cores per socket/hosts (driven by industry)
 - More memory : already true
 - More local devices/disk : already true but may be remote access file can limited this evolution.
 - More network capabilities: not yet but many core, bigger disk and/or more remote access file means that 1Gb/s per Worker node will not be sufficient
- Storage
 - More capacities per disk server:
 - More network capacities

Remaks, question i have

- Internal site network is, from my point of view, a future issue
 - Mainly because today, network is not fully considered as a resource
- How to buy hardware with 5 years of maintenance if the application requirement change by a factor 3 or 4 during this time
 - Memory
 - Disk
 - Network capabilities
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Remaks, question i have

- How LCG VO and non LCG VO can cohabits on same site
 - WMS future
 - CE (cream or others)
- What about of future of middleware
 - DPM
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