SPRACE Status Report

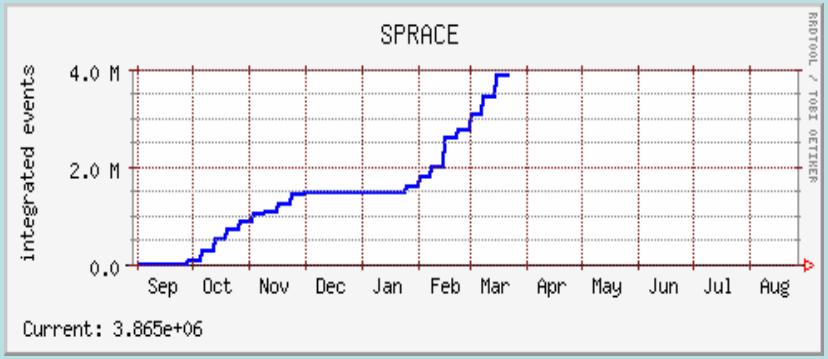
II DOSAR Workshop

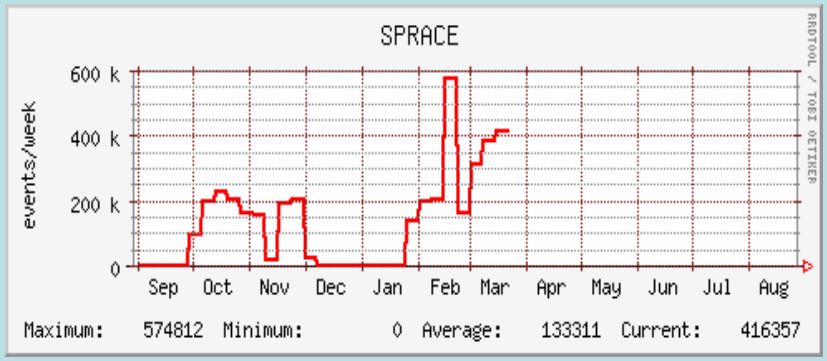
SPRACE Inventory

- Present
  - 57 dual Xeon nodes = 114 Xeon CPU's = 114 Cores
  - 313.2 GHz (626.4 GFlops)
  - 91 GB RAM
  - 12 TB RAID + 2.4 TB internal = 14.4 TB total
- Approved upgrade
  - + 32 dualCore dualXeon nodes = 64 CPU's = 128 Cores
  - + 409.6 GHz (+819.2 GFlops)
  - + 128 GB RAM
  - + 1.2 TB internal
- Future (next workshop)
  - 89 Nodes, 178 CPU's, 242 Cores
  - 722.8 GHz (1.45 TFlops)
  - 219 GB RAM
  - 12 TB RAID + 3.6 TB internal = 15.6 TB total

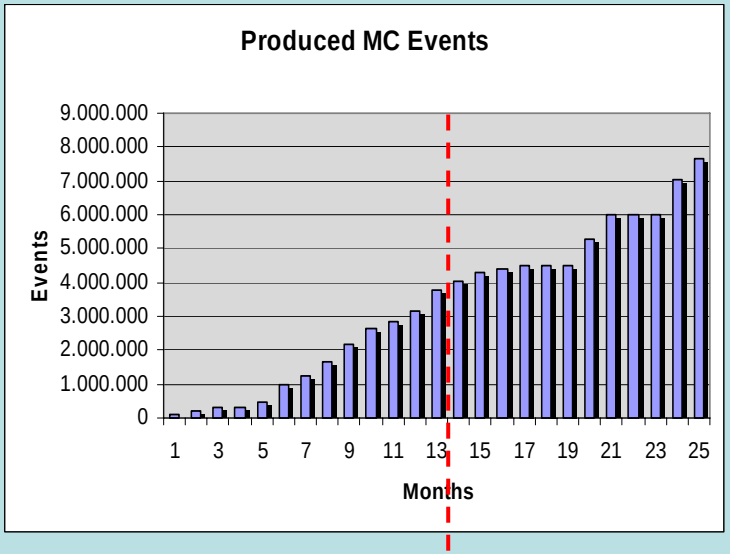
Monte Carlo Production

- SAMGrid Production





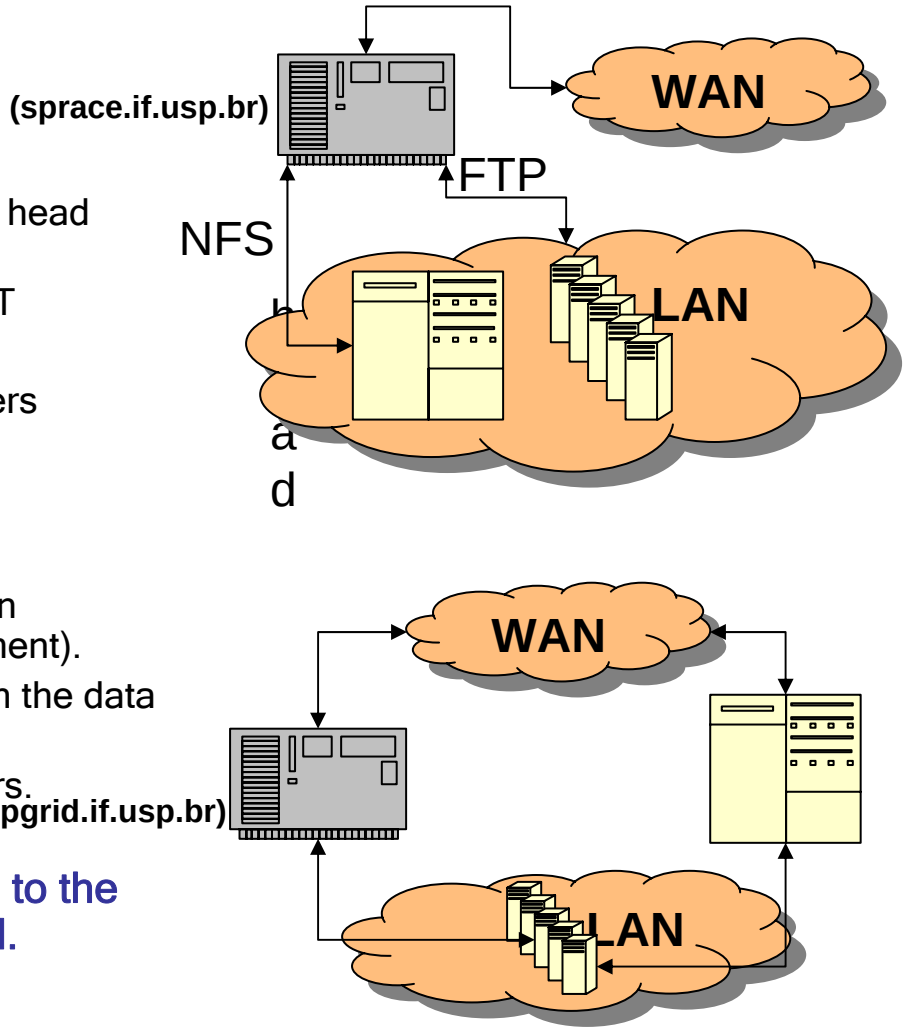
- All time production



McFarm SAMGrid

Cluster Architecture

- Two separate clusters
- Production Cluster
  - Sam Station and Gatekeeper on same head node
  - Data server and working nodes on NAT
  - Heavy network load on the head node
  - 1 Head node, 1 Data Server, 50 Workers
  - SAMGrid exclusive
- Development Cluster
  - Data server on WAN and LAN.
  - Cluster gatekeeper, job and information services on head node (Compute Element).
  - Workers gateway and Data services on the data server (Storage Element).
  - 1 Head Node, 1 Data Server, 2 Workers.
  - OSG + SamGrid
- Move the workers from the Production to the Development cluster when operational.



OSG Deployment Status

- OSG 0.4.0 Installed on the head node (SPGRID).
  - Seen as operational on OSG Monitoring tools.
  - Small jobs accepted by gatekeeper and distributed by condor.
  - SamGrid jobs not yet running.
  - Storage still on head node
- SAMGrid Partially installed.
- SPRAID SAM Station operational on Data Server.
- To Do:
  - Configure nodes gateway.
    - One of the reasons MC jobs must not be running.
  - Debug MC production on SPRACE OSG site.
  - Finish installing SAMGrid using SPRAID external station

GridCat Monitoring

Status	Site Name	Jobs	Disks	Service	Loc	Facility
	SPRACE	0/6	16/1646	CS	BRAZIL	UNESP
Site State:			Active			