

# SPRACE

## SÃO PAULO REGIONAL ANALYSIS CENTER

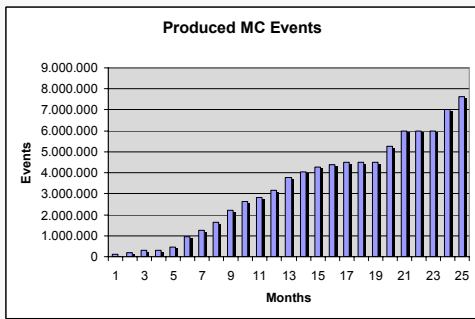
### The SPRACE Cluster



SPRACE	Phase 1 (2004)	Phase 2 (2005)	Phase 3 (2006)
<b>CPU</b>	50	115	240
<b>Power (TeraFlop)</b>	0.28	0.64	1.45
<b>RAID (TB)</b>	4	12	12

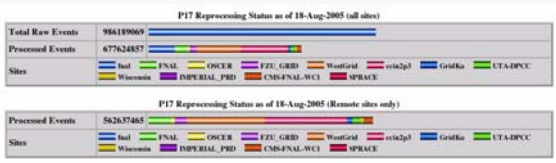
### Monte Carlo Production for DØ

The SPRACE cluster was placed into production on March 23<sup>rd</sup> 2004. Since then we have produced more than 7.6 million Monte Carlo events for the DØ Collaboration of Tevatron and we have transferred more than 1.6 TB of data to the Fermilab repository.



### Reprocessing of DØ Data

SPRACE was the only site in the Southern Hemisphere to participate in the reprocessing of DØ data. During 2005, SPRACE reprocessed 9.2 million events together with WestGrid in Canada, CCIN2P3 in France, UTA in USA, Praga in Tcheck Republic, GridKa in Germany, and GridPP and PPARC in UK.



### Participation on DOSAR and OSG



SPRACE has also become part of the Open Science Grid (OSG).

SPRACE is a Virtual Organization of the Distributed Organization for Scientific and Academic Research (DOSAR) which congregates institutions from the Southern part of the U.S. and from Latin America that are involved in the major High Energy Physics experiments.



### SPRUNA

### SPRACE Research on Ultrafast Network Applications



SPRUNA is developing research on ultrafast network applications. We intend to implement the UltraLight concept of Grid controlled lightpath into FAPESP's Kyatera network testbed.

### Bandwidth Challenge Demonstrations



SPRACE has been participating in the SuperComputing Challenges. In 2004 we broke the record of data transmission between the two Hemispheres