

D0RunII Computing at Rio

Status and Plans

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Offsite Computing Workshop

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Outline:

- What we plan to do
- What we will not do
- What we plan to have
- What we have now

- What we plan to do:

- Data analysis
 - diffractive physics
 - some rare b-decays?
- Monte Carlo production
 - event generation
 - detector and trigger simulation
 - reconstruction of MC data
- Event display
- Software development
 - analysis
 - monitoring?

- What we probably will never do:

- Large data transfers over the internet
- Keep huge, frequent maintenance databases locally
- Reconstruction of real data

- Our planned computing system

- Will retire most of pre-existing computing resources (based on IBM hardware);
- New systems based on PCs running Linux (server and desktops)
- A PC-Linux farm — depends on money to be approved
- Some resources will be shared (CBPF, UERJ, IFT)
- Bad link to FNAL (bottleneck at international link)
- No dedicated sys admin experts at Uerj, some help available from CBPF
- Brazilian collaborators generally would like to see the Gnu C++ compiler supported at DØ.

- What we currently have

- a small LAN running Linux, with a central server (Pentium III, 450MHz, 64MB RAM, 18GB HD) and a couple desktops;
- Kai compiler installed, no other licensed software so far;
- monthly overnight downloads of D0RunII binaries have been performed to CBPF without major problems.