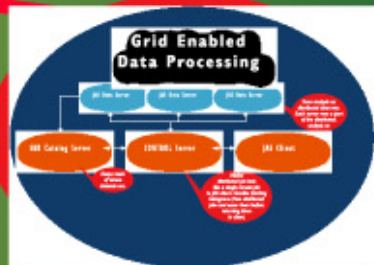
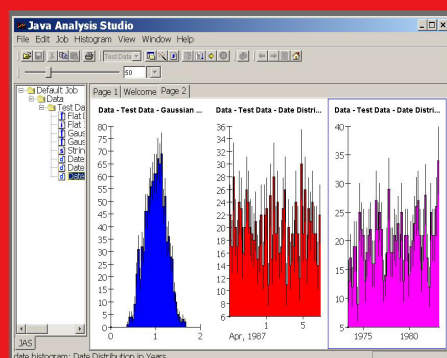


TOWARDS INTERACTIVE ANALYSIS ON THE GRID

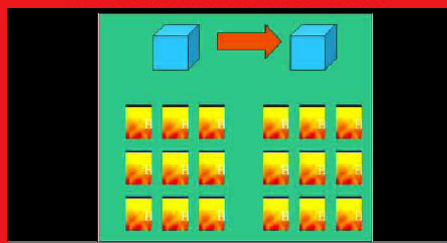


Particle Physicists use a variety of interactive analysis tools to study their data. Such tools must keep pace with the increasingly distributed nature of High Energy Physics computing. As HEP computing moves to the Grid, analysis tools are becoming grid-aware to offer the user a seamless experience whether they are analyzing a few data events on their local system or a million events half a world away.



You can control this display to analyze events on a small test grid at various sites around the world and around the SC2002 floor. See the on-screen help menus for details.

Grid Analysis activity at various sites around the world and around the SC2002 floor.



You can control our demo grid from the JAS (Java Analysis Studio) console to the left. Select analysis jobs either for the BaBar experiment or the LCD experiment. This Particle Physics Data Grid demo uses information from an SDB data catalog server (discussed elsewhere in this exhibit) to determine the best location to run the job.

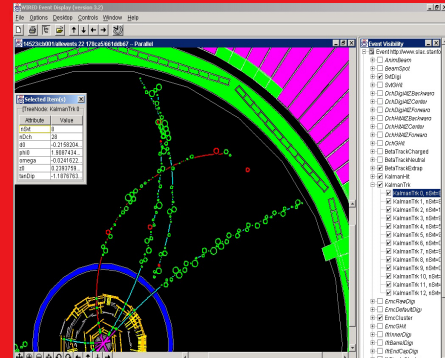
BaBar jobs, which require data from the SLAC and Lyon (France) data center subgrids, will be distributed to analysis nodes at these sites.

LCD jobs, which can get data from various demo grid nodes around the SC2002 floor, will be distributed to analysis nodes at those SC2002 locations.

The display to the right lets you run either the WIREB or Miniball Event Displays. Such interactive displays are used by physicists to debug and monitor their detectors and their data analysis software.

WIREB can show High Energy Particle Physics interactions recorded by the BaBar Detector at the Stanford Linear Accelerator Center's newest accelerator, PEP-II along with uncollected interactions at other experiments underway such as the GLAST Gamma Ray Large Area Space Telescope, to be launched into earth orbit in 2006, or the LCD Linear Collider Detector, still under study for possible construction later in the decade.

The Miniball event display shows the response of a special proton detector designed to test for neutrino mass via a search for neutrino oscillation at Fermilab.



You can control either display to look at more events, to see other details of the current event, or to zoom, rotate and otherwise transform the image. See the on-screen help menus for details.