ROOT, as Seen by Interested User

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1 ROOT overview

ROOT is an object-oriented (C++) package which includes :
- physics analysis tools (histogramming, fitting)
- graphics and presentation tools
- data storage and management tools
- tools for writing the reconstruction and simulation code
- tools for automatic documentation generation;
- networking tools and many more ...

In 0-th approximation one could think of ROOT as of C++ implementation of CERNLIB, which already includes KERNLIB, PACKLIB, HBOOK, HPLOT, PAW, ZEBRA etc... i.e. as of

- a set of libraries, which one could link against (batch mode);
- an interactive analysis (PAW-like) framework;

Present implementation of ROOT (see **http://root.cern.ch**) already provides the level of functionality which supercedes that of CERNLIB in many areas (including tools for physics analysis) and ROOT has a very good potential to become a successor of CERNLIB for the next generation of HEP experiments.

ROOT is being developed at CERN for already 3 years by a team lead by **Rene Brun**