

PROOF tutorial

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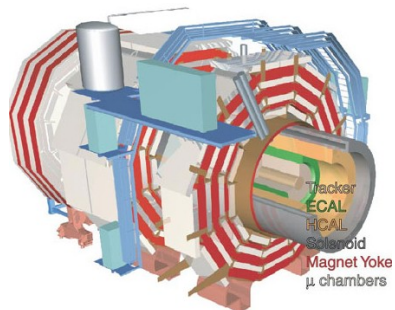
- Part I
 - ROOT Basics
 - Interpreter, objects, containers, histograms, math
 - I/O, remote I/O
 - Saving/fetching objects
 - Trees and TSelector-based analysis
- Part II
 - PROOF basics
 - The PROOF shell, simple running example
 - More advanced usage
 - Reading data, datasets
 - Use of PAR packages
 - PROOF-based D3PD analysis
 - Proof-On-Demand

Object-Oriented framework for large scale data handling applications

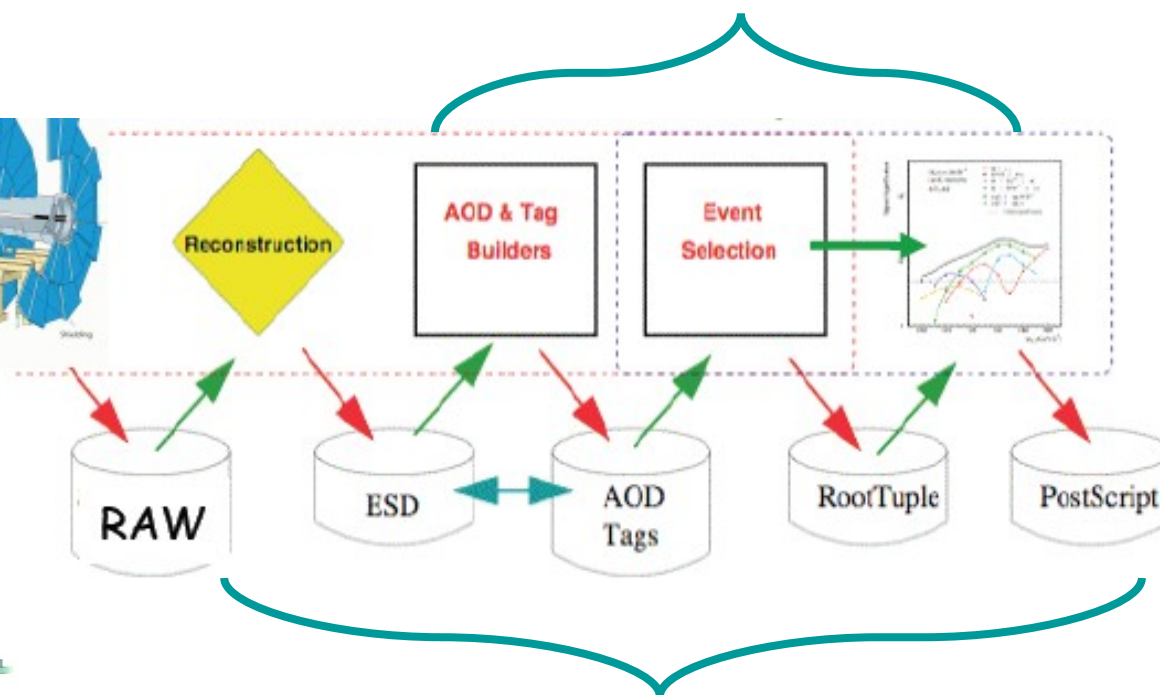
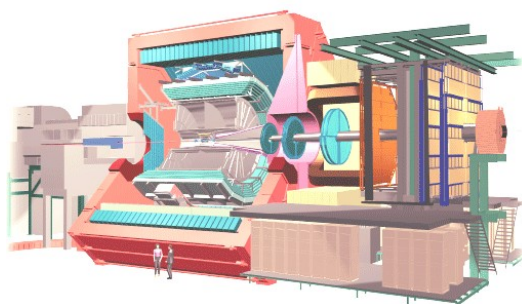
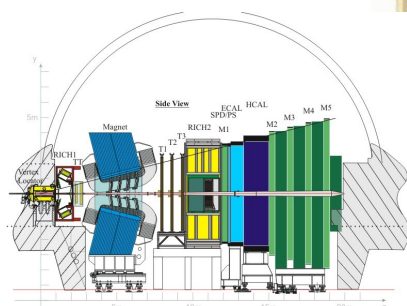
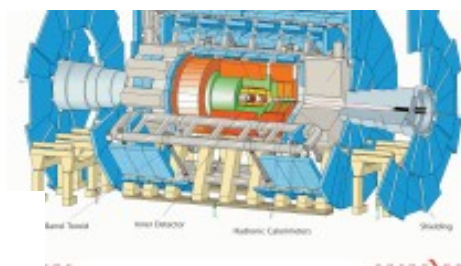
Project based on the experience of PAW and of the related software (ZEBRA, CERNLIB, ...)

- Interactive shell for rapid prototyping and visualization
- Efficient statistical and mathematical tools
- Clever data management subroutine libraries

Exploits object-orientation to provide a framework focusing on scientific analysis



Data Analysis & Visualization



Data Storage: Local, Network



- Started in 1995
- Developed as a collaboration between
 - ~15 full time developers at CERN, Fermilab, Protvino, Dubna
 - Large number of part-time developers
 - > 150 names in the CREDITS file
 - Long list of users giving feedback (forum, mailing lists)
- Available under GNU LGPL (including source)
- Supports all major platforms
 - Unix (**linux**, solaris, freeBSD, ...)
 - **MacOsX**
 - Windows
- Source code managed with Subversion
 - Repository is accessible at

<https://root.cern.ch/svn/root>



ROOT | A Data Analysis Framework - Google Chrome

root.cern.ch/drupal/

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ROOT

```
//create the File, the Tree and a few branches
TFile f("tree1.root","recreate");
TTree t1("t1","a simple Tree with simple branches");
t1.Branch("px",&px,"px/F");
t1.Branch("py",&py,"py/F");
```

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Screenshots

Get a taste of ROOT's capabilities by sampling some [screenshots](#).



Download

Go ahead and [download](#) the latest build of ROOT.



Documentation

Get the inside scoop on how to fully utilize ROOT. Also, search the [Reference Guide](#), the [HowTo's](#) and the user forums.

What's New

- December 15, 2010, 15:21
[Production release 5.28/00](#)
- October 13, 2010, 11:45
[Patch release 5.26/00e](#)
- September 29, 2010, 10:54
[Development release 5.27/06](#)
- March 31, 2010, 15:34
[Patch release 5.22/00i](#)

Production release 5.28/00

[production release](#)

The production release of ROOT 5.28/00 is now available.

In case you are upgrading from version 5.22, 5.24 or 5.26, please read the releases notes of versions 5.22, 5.24 and 5.26 in addition to these notes.

The SVN tag for this version is **v5-28-00**.

[Read more](#)

Patch release 5.26/00e

[patch release](#)

The patch release of ROOT 5.26/00e is now available.



- User's Guide, Tutorials, HowTo's:

<http://root.cern.ch>

- Reference Guide (full class documentation):

<http://root.cern.ch/root/html>



- ROOT forum:

<http://root.cern.ch/phpBB3//>

- ROOT Savannah:

<https://savannah.cern.ch/projects/savroot/>

- ROOT mailing list:

roottalk@root.cern.ch

after registering as ROOT user at

<http://root.cern.ch/drupal/content/register-user>