



Contribution ID: 275

Type: **oral presentation**

Booting ROOT with BOOT

Tuesday, September 4, 2007 11:00 AM (20 minutes)

The BOOT project was introduced at CHEP06 and is gradually implemented in the ROOT project.

A first phase of the project has consisted in an important restructuring of the ROOT core classes such that only a small subset is required when starting a ROOT application (including user libraries). Thanks to this first phase, the virtual address space required by the interactive version has been reduced by a factor 3.

A second phase of the project has the objective to eliminate a substantial fraction of the dictionary code generated by the preprocessor rootcint. This code will be replaced by persistent objects stored in a ROOT file and the CINT stub functions replaced by direct calls to the compiled code. Prototypes have been developed early 2007 and a full implementation is expected at the time of CHEP07.

A third phase under prototyping will automatize the autoloading of the code on demand from a central source repository and online compilation of this code with local caches. This will facilitate and speed-up the installation of new versions. A by-product of this phase has been the implementation of a ROOT file cache (presented in another talk) improving drastically the performance of the ROOT I/O in high latency networks.

When all these phases will be completed, it should be possible to install and run a ROOT based application from a web browser (a BROOTER).

Primary author: Dr BRUN, Rene (CERN)

Presenter: Dr BRUN, Rene (CERN)

Session Classification: Software components, tools and databases

Track Classification: Software components, tools and databases