



Development of the Database Connection of ARCS

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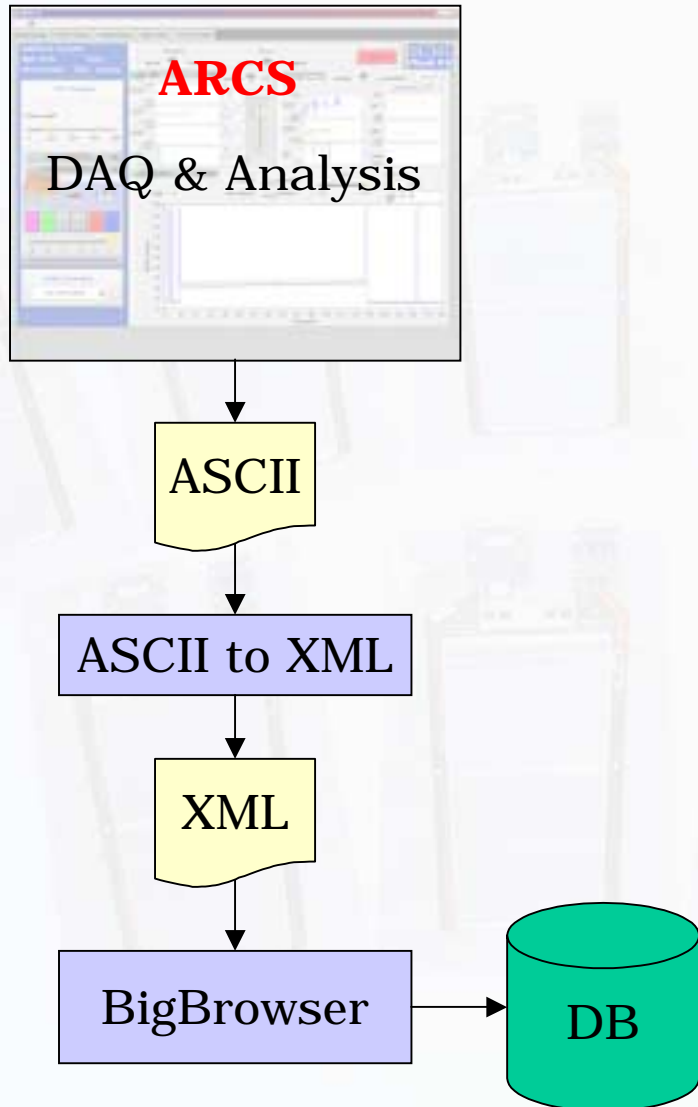
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Overview

- Change of the Data Flow Concept
- Advantages
- Implementation
- Outlook



● ARCS

- ◆ data acquisition
- ◆ analysis
- ◆ stores results in ASCII file

● ASCII to XML converter

- ◆ generates XML file

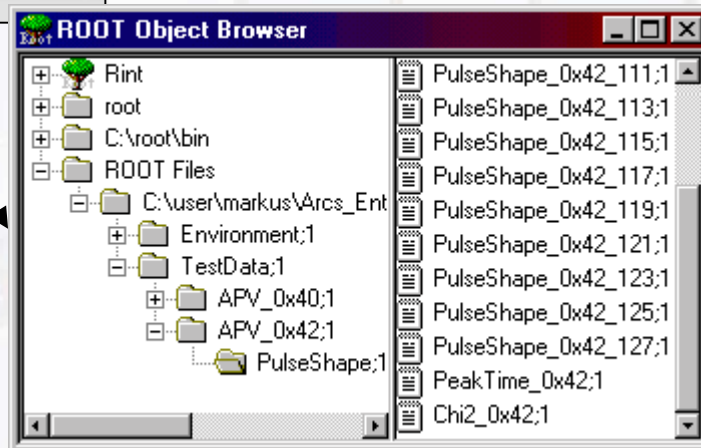
● BigBrowser

- ◆ transfers XML file to TrackerDB

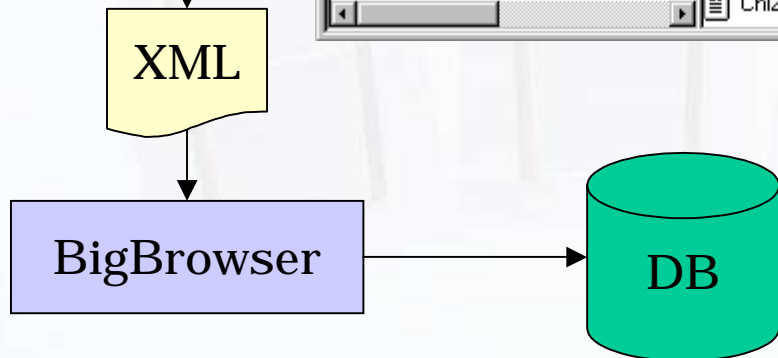


● ARCS

- ◆ data acquisition
- ◆ analysis
- ◆ stores results in



- root files
incl. all information
(histograms, fits,
etc.)
- XML files
incl. final results



● BigBrowser or command line tool

- ◆ transfers XML file
to TrackerDB

- Advantages of the new concept
 - ◆ more user-friendly
 - ◆ reduction of possible sources of errors
 - you only have to use ARCS
 - no additional converter to install and to run
 - ◆ easy way to implement reading of XML files (e.g. configuration, test parameters, ...)

- *Xerces C++* library from the *Apache* project
 - ◆ XML parser
 - ◆ written in a portable subset of C++ (works with Windows)
 - ◆ DOM API

- Currently implementing
 - ◆ root file generation
 - histograms and fits for all tests for individual APVs
 - ◆ writing of XML file
 - ◆ should be running in a few weeks

- Future
 - ◆ automatic transfer of the XML files from ARCS to TrackerDB
 - ◆ import of test parameters into ARCS via XML file