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## JAIDA, JAS3, WIRED4 and the AIDA tag library - experience and new developments

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JAIDA is a Java implementation of the Abstract Interfaces for Data Analysis (AIDA); it is part of the FreeHEP library. JAIDA allows Java programmers to quickly and easily create histograms, scatter plots and tuples, perform fits, view plots and store and retrieve analysis objects from files. JAIDA can be used either in a non-graphical environment (for batch processing) or with a GUI. Files written with JAIDA adhere to the AIDA IO standards and can be read by any AIDA compliant analysis system. JAIDA can also access data from ROOT, HBOOK/PAW or SQL databases, and can be used from C++ via the AIDA "C++ to Java" adapter (AIDAJNI). JAIDA now includes JMinuit, a complete port of Minuit to Java. JAIDA is used internally by JAS3 which provides a full featured GUI in addition to the above functionality.

The AIDA tag library (AIDATLD) is an open source suite of custom tags that provide access to JAIDA from J2EE applications and JSP pages. It provides the ability to dynamically creating high quality physics and astronomy plots, as well as providing access to histograms and Ntuples stored in any AIDA store (which includes ROOT files via rootd or xrootd) from web applications.

This software is currently used by several experiments and collaborations, including BaBar, GLAST, and Geant4. Experience of using AIDATLD, JAIDA, and JAS3 in experiments, as well as description of new developments will be presented in the talk. In particular we will describe a wide ranging suite of web applications developed using these tools for the GLAST experiment.

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