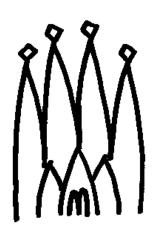
Status and Plans for GAUDI

Computing meeting
LHCb Week, 1 December 1999
P. Mato, CERN



line

'hat's new with the current release

Event Model

Detector Description

N-tuples

Visualization

Framework Enhancements

ans for next release

nt Model

ddition of new classes

E.g. VELO clusters

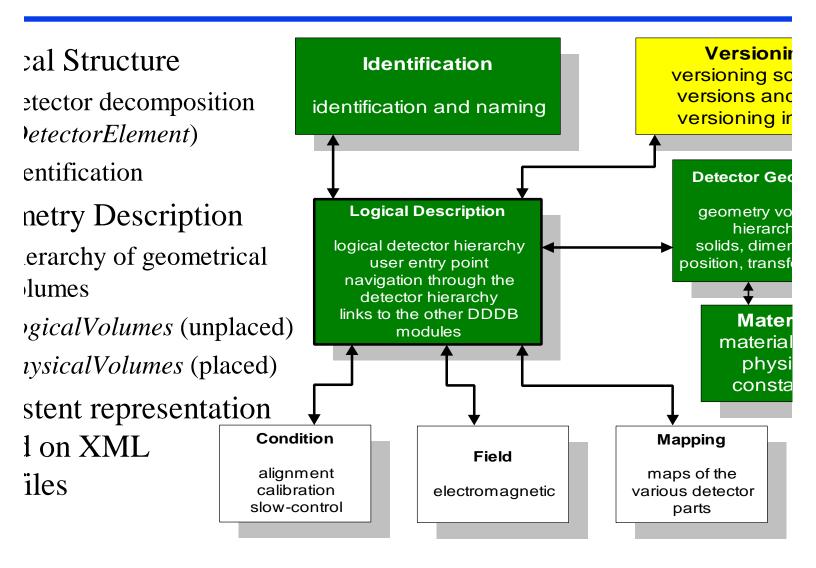
erification

Bugs from release 2 removed. Compared formatted event d dumps between Sicb and Gaudi

nart references

Automatic loading when referenced. (e.g. the MCVertices a loaded if referenced from MCParticles)

ector Description



uples

-tuple data type

Complementary to genuine data objects

Based on simple data types (portability)

eveloped interface for creating, writing and reading ples from an Algorithm.

ew N-tuple data service attached to a persistency serurrent back-end based on HBOOK.

Imposed small limitations

ther back-ends also possible

a Visualization

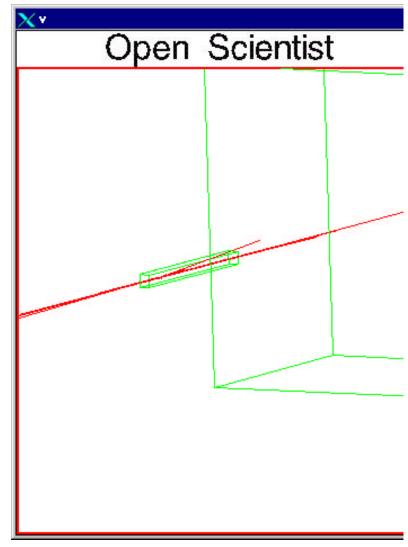
ototype exists based

Open Scientist(*)

Proof of concept
Could be useful for debugging. E.g. geometry, algorithms

lore work is needed to ake it complete and able.

3L, OpenInventor, HEPVis, Lab, ...



mework Enhancements

ynamic linking of libraries

The framework supports **dynamic** and **static** linking (NT operational, UNIX next release)

aproved format of JobOptions files

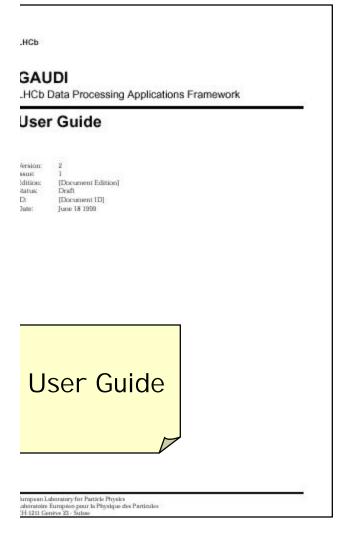
C-like syntax, include files, append to list, etc.

ew suit of example programs

Topical examples

One complete Analysis example

umentation





GAUDI Status and Plans

tus of current release (v3)

'Ihcb.cern.ch/computing/Components/html/GaudiMain.html

ıt public release

n	v3 (23/11/99)	
ption	It consists of the following packages: Gaudi [v5], LCHbEvent [v6], SicbCnv [v6], RootCnv[v3], HbookCr DetDesc[v2], GaudiExamples [v6] Release Notes	
ted platforms	WNT 4.0, HP-UX 10.20 (*) and Linux RedHat 5.1	
ation	Windows NT 4.0	UNIX
	Download sources only	Download sources and binaries (Linux
entation	User Guide v3 (<u>html</u> , <u>pdf</u> (1.1MB), <u>ps</u> (18MB!!)) Presentations:	
	C++ code documentation (html)	

is for the next release

ata Access

Support for native ROOT files

Event selection and event collections

Data dictionary based converters

vent Model

Containers with multi-access patterns (sequential, matrix, e New Sicb converters and consolidation of existing ones Study and implement support for Event pile-up

is for the next release (2)

etector Description

Study Tracking group request (radiation lengh between 2 p

Populate XML files with Geant3 data

Design and first prototype of the Aligment and Calibration model

isualization

Complete a set of graphical converters for existing detecto MC event classes

GaudiLab Interactive Service for Windows

XML Conversion service for WIRED

is for the next release (3)

Conitoring

Algorithm and Service browsing

Property browsing

Job Statistics

nalysis Tools

Formalization of "Tools" (e.g. associators, verterxers, etc.)

Minimization library

Implement the new interface of Histogram from LHC++ onventions

Units, Class ID allocation, File locations, etc.

clusions

