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# Status of LHCb Software Framework

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# Coding Progress

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Package		Status
Algorithm		Done.
ApplicationMgr		Done. Integrating last components.
DataSvc		Done (Event Data Service)
EventSelector		Very simple functionality done (SicB file oriented).
Examples		In preparation for the release.
HistogramSvc		Simple version based on HBOOK. Needs integration.
JobOptionsSvc		Almost ready. Done in a couple of days.
Kernel		Done.
LHCbEvent	Analysis	Not done.
	MonteCarlo	Done.
	Raw	Not done.
	Reconstructed	Not done.
	TopLevel	Done.
	Utilities	Done.
MessageSvc		Done. Very simple functionality.
PersistencySvc	Objectivity	Done. SibB converters for MC data done.
	Root	Nothing.
	SicBxx	Nothing

# Testing Progress

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- ◆ Basic functionality for the release 1.0 has been tested on the existing components.
- ◆ Unit testing:
  - Each package has its own test programs.
- ◆ System testing:
  - We are able to test the bootstrap of application (services and algorithms). Provide the necessary “user hooks”
  - We are able to read a SicB data file:
    - » MonteCarlo particle kinematics and vertices.
    - » Make data available to “Algorithms”.
  - Complete examples (test programs) in preparation.

# Effort in numbers

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- ◆ 39 Visual SourceSafe projects
- ◆ 32 Developer Studio projects
- ◆ 18 Packages
- ◆ About 200 classes has been produced
- ◆ The number of lines of C++ code is 27000 (including comments)

# Release 1.0: what needs to be done

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- ◆ Finish coding remaining packages
- ◆ Integration & testing of Histogram Service
- ◆ Build realistic examples. To be use for testing and user training.
- ◆ Study what can be done for detector geometry.
- ◆ Study which other converters are candidates for release.
- ◆ Port software to UNIX: Hpplus + Linux
- ◆ **Prepare release: library, makefile (VC++ project), example code and documentation**

# The Planning

