Histogram Persistency

- We are adding the ability to save histograms and NTuples in ROOT format to Gaudi v5.
- Alpha implementation involves creation of a new converter similar to the existing HBookCnv, which contains ROOT specific converters for all Gaudi histogram and NTuple data objects.
- Also requires modifications to the ApplicationMgr in GaudiSvc to load the appropriate converter.
- No changes need to be made to the Histogram or NTuple user interfaces, as they are separate from the persistency mechanism. Histogram interface uses AIDA, and so far there have been no complaints about features. NTuples still have a somewhat deficient interface (*eg* problem with blocks).

Histogram Persistency: User Code

- Implementation will be totally transparent to the user. The choice of the final persistency mechanism is made by the user in the jobOptions file:

```
// Histogram output format: ROOT: 2, HBOOK: 6
HistogramDataSvc.Type = 2;

// NTuple output format
NTupleSvc.Type = 2;
```

Histogram Persistency: Status

- Currently saving 1D histograms in ROOT format.
- Will have more done soon.