Subject: Re: Detector ID.
Posted by Mohammad Al-Turany on Mon, 04 Aug 2008 11:31:39 GMT

Hi,

I think it is useful to summarize what kind of Id's are there and how they are used tell now:

1. CbmModule   has a protected member fModId which is used internally in the framework!

2. CbmDetector has a member fDetId which can be set from the detector constructor as detector identifier. e.g. In CBM there is an enum:

enum DetectorId {kREF, kMVD, kSTS, kRICH, kMUCH, kTRD, kTOF, kECAL, kZDC, kSTT,kTutDet};

these values are hardcoded in the detector constructors. e.g:
 CbmRich::CbmRich() : CbmDetector("RICH", kTRUE, kRICH)
These id's are also used for the stack filtering!

3. in CbmVolume:

     Int_t fVolumeId;   /**Volume Id in GeoManager*/
     Int_t fMCid;   /**Volume Id in MC*/

     these two are usually identical if you use the TGeoManager as geometry description and navigation! otherwise they could differ! they are simply the unique identifier of a volume in the geometry.

So I think we need an enum to identify the detector generally and for those detectors who need more than an integer I would do it like in the emc! so that one can find out from a point in which volume, sector, ..etc it was registered!

regards

Mohammad