Subject: Re: Bug in parameter handling?
Posted by Dima Melnychuk on Sun, 19 Jun 2011 10:16:15 GMT
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Hi Felix,

Talking about problem of GAS file, it's not a problem of parameter handling.
It's a problem that in PndTpcRiemannTrackingTask position of GAS file is taken not from
parameters file but hardcoded value without path is used.

Calling PndTpcRiemannTrackingTask::Init at line 219

fnsectors= PndTpcDigiMapper::getInstance()->getPadPlane()->GetNSectors();

PndTpcDigiMapper is called.

If PndTpcDigiMapper was not properly initialised before, its constructor is called

PndTpcDigiMapper::PndTpcDigiMapper(bool autoinit)

with autoinit=true

and hardcoded file names are used without any path


```
if(autoinit){
    // objects instantiated here may be replace with the init method!
    fgas= new PndTpcGas("NEON-90_CO2-10_B2_PRES1013.asc",400);

    //TODO: Get these things from Database!!!
    fgem=new PndTpcGem(5000,        // Gain
                   0.02);       // Spread

    fzGem=0.;

    fpadShapes = new PndTpcPadShapePool("2mmPads.dat",
                       *fgem,
                       0.5, // lookup range
                       0.02, // Lookup Step
                       0.01); // LookupIntegrationStep

    fpadPlane= new PndTpcPadPlane("padplane.dat", fpadShapes);

}
```


When tpc reco macro contained PndTpcClusterFinderTask initialised before
PndTpcRiemannTrackingTask
there at line 128 PndTpcDigiMapper was properly initialised with parameters from RTDB

PndTpcDigiMapper::getInstance(false)->init(fpadplane,fgem,fgas,fpar->getPadShapes(),fzGem

,t0,sf);

and later in PndTpcRiemannTrackingTask this properly initialised instance was called.

Dima