Subject: Re: Is there a fast way of histogramming RhoCandLists?
Posted by Ralf Kliemt on Fri, 05 Sep 2014 20:36:32 GMT
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There is even a faster way: The "QA Tools"

See how it is applied in macro/scrut/PndScrutAnaTask:
 https://subversion.gsi.de/trac/fairroot/browser/pandaroot/trunk/macro/sc
rut/PndScrutAnaTask.cxx


```
    RhoTuple* ntp1 = new RhoTuple("ntp1", "jpsi analysis");
    if (ntp1) ntp1->GetInternalTree()->SetDirectory(gDirectory);
    PndRhoTupleQA qa(fAnalysis,fIni.P());
...
        // dump information about composite candidate tree recursively (see
PndTools/AnalysisTools/PndRhoTupleQA)
        qa.qaComp("j", jpsi[j], ntp1);
```


You'll get many ntuples which follow s sort of naming code. First your prefix, here "j", and at the end the observable in play, such as px, py, pz, p, e, ... In between you'll find "d0" for the first daughter in your composite. This cascades down, so e.g. the momentum of the second dughter of the first daughter is labelled with "jd0d1p".

See also https://subversion.gsi.de/trac/fairroot/browser/pandaroot/trunk/PndTools
/AnalysisTools/PndRhoTupleQA.h for all the automated possibilities.

Cheers
Ralf