

Hi all,

Stefano and I thought a bit again about the question,  
which macros to use.

And the key question is:

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which are our most time-consuming steps in the simu or reco?  
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And, actually, here the fast sim is the smallest problem,  
because - obviously - it is fast by definition. So I changed my opinion a bit.

Therefore I would like to propose three different macro groups  
(in other words, our "bottlenecks")

- 1.) dpm
- 2.) UrQMD
- 3.) tpc reco and stt reco  
(maybe - if we keep the DC data somewhere - we could actually use it for the long-planned  
tpc/stt comparison?)

So, concerning 1.)

macro/run/run\_sim1.C  
with all detectors switched on  
and then change the generator to DPM, see  
<http://panda-wiki.gsi.de/cgi-bin/view/Computing/Dpm>  
-> "Simulation inside PandaRoot"  
and then generate billions of events

Note: unfortunately I don't know anymore how to set the beam energy in  
DPM. I have to ask Stefano tomorrow.

So, concerning 2.)

macro/run/run\_sim1.C  
with all detectors switched on  
and then change the generator to UrQMD, see  
<http://panda-wiki.gsi.de/cgi-bin/view/Computing/UrqmdSmm>  
here the heavy targets (Au, Pb) are most useful,  
because most time-consuming.  
anti-proton beam momenta 3.00 and 4.05 GeV  
(these are needed for the J/Psi-in-nucleus measurement).  
Actually, the GRID would be very useful here to generate as many events as possible!

So, concerning 3.)

macro/tpc/tutorial

runMC.C runDigi.C runReco.C

the svn version of these macros have some difficulties right now  
(I just tried again and I have e.g. undefined symbol GeaneTrackRep),  
see also

[http://forum.gsi.de/index.php?t=msg&th=1802&rid=0&S=dfa543952d09c2dca876d4fb1bde7c98#msg\\_6124](http://forum.gsi.de/index.php?t=msg&th=1802&rid=0&S=dfa543952d09c2dca876d4fb1bde7c98#msg_6124)

e.g. one has to comment out "UseGeane()".

I hope that we can fix it until the DC

(I know that Dipak has a version which works).

macro/stt

run.C rundigi.C runreco.C

they work fine.

Here I would propose just to use the box generator

for muons with

$p_T=30,40,50,\dots,100$  MeV/c

$p_T=100,200,300,\dots,1000$  MeV/c

$p_T=1,2,3,\dots,7.5$  GeV/c

and uniform polar angle.

(the highest point at 7.5 GeV/c is for the Drell-Yan measurement).

What do you think?

cheers, Soeren