

Hi all,

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

And the key question is:

which are our most time-consuming steps in the simu or reco?

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

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