Subject: Mass production DEC08 with full ECAL
Posted by Volker Friese on Wed, 10 Dec 2008 19:19:15 GMT
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I. Korolko requested a mass production including the full ECAL. This will be done with the release DEC08 (once it is there). It will be the first use case of CBM-GRID. This forum topic is intended to discuss issues related to this production.

Requested are:

Minimum 100 k events. This would require about 200 CPU days and about 0.5 TB storage capacity.
Maximum 1 M events, requiring 8 CPU years and 5 TB storage.

Production should start before christmas. The participating sites are GSI, Dubna, and potentially ITEP.

Open questions are:

What is the geometry to be used?
Which reconstruction steps are required?
What is the status of CBM-GRID at the participating sites?

Subject: Re: Mass production DEC08 with full ECAL
Posted by Mikhail Prokudin on Tue, 16 Dec 2008 12:39:56 GMT
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Hello Volker,

ecal_FullMC.geo should be used.

All steps of reconstruction should be done. (I mean clustering, photon reconstruction and matching).

Subject: Reconstruction macro
Posted by Volker Friese on Tue, 16 Dec 2008 14:37:20 GMT
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Dear Misha,

the simulation part is clear, then. Can you provide a reconstruction macro with the ECAL reco tasks?

Subject: Transport geometry
Posted by Volker Friese on Tue, 16 Dec 2008 14:42:35 GMT
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Dear Misha,

I assume you want the standard geometry for electron measurement. The only question then is whether MVD should be included (as for low intensity running) or not (as in the case of maximal interaction rate).

Subject: Re: Transport geometry
Posted by Mikhail Prokudin on Tue, 16 Dec 2008 14:58:46 GMT
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Dear, Volker,

I have attached the script to this letter. Please, verify the part preceding the ecal.

The problem is, that I need a new subdirectory ecal in parameters directory to put there configuration files for reconstruction. I also need to put some where a shower library and S-curve library (~200Mb, not in SVN for sure), which is necessary for reconstruction process. (I have written a mail to you, but it was ignored --- as usual:-)

File Attachments
1) run_reco.C, downloaded 620 times

Subject: Re: Transport geometry
Posted by Mikhail Prokudin on Tue, 16 Dec 2008 15:00:00 GMT
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Dear, Volker.

I don't know the answer for this question. We should ask Ivan.

Subject: ECAL parameter subdirectory
Posted by Volker Friese on Tue, 16 Dec 2008 15:48:27 GMT
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Dear Misha,

not ignored - I have put you in my spam filter....

I have created the directory parameters/ecal in trunk (permissions will be set asap). I suggest to put the large files in the input directory. Please provide a mean to download it - e.g. sftp it to somewhere at GSI.

Subject: Test with full ECAL on desktop
Posted by Volker Friese on Tue, 16 Dec 2008 15:52:50 GMT
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I have run the simulation with full ECAL on my desktop (sarge32) without problems (5 test events only). No crash as in the case of fastEcal occured

Consumption:
2,903 CPU s (about 600 CPU s per event)
28 MB output file (about 5 MB/event)

Subject: Re: Test with full ECAL on desktop
Posted by Florian Uhlig on Tue, 16 Dec 2008 15:59:12 GMT
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Hi Mikhail

You have now write permissions for the parameter directory of ecal.

Ciao

Florian

Subject: Re: ECAL parameter subdirectory
Posted by Mikhail Prokudin on Tue, 16 Dec 2008 16:04:15 GMT
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Large files (12x12.root 3x3.root 6x6.root showerlib.root) can be found in /u/prokudin/temp/for_volker

I will commit the rest of files in parameters/ecal ASAP.