Overview of software activities



Ch. Finck & Y. Dong



- ➡.. have been "still" busy …
 - Many bug fixes and code improvements*:
 - cmake debug option per default / README.md right under shoe
 - **Remove fullrec/level0 folder**
 - **Rename Shoe/libs/src to Shoe/Libraries (remove src folder) Rename LocalReco(MC) to RecoRaw(MC), only one executable Reduce code in BaseReco, RecoRaw and RecoMC** Introduce name manager handling action, branch, data, para names

 - - New calibration parameters of ΔT_{AB} for TW (featuring new files)
 - Introduce new class to write out flat tree
 - New flag for MC noise handling in global parameters
 - Implemented night build checking: pull, compile, run & test
 - ref. histograms (sending mail when error occurs)

. . . . *more details: <u>https://agenda.infn.it/event/35350/</u>

Status (i)

➡ We are near the Goal:

- All detectors are in shoe with all the interfaces (finally)
- The developments on the detector side
 - Calibration ongoing for CAL
 - Eta function study ongoing for MSD
- Discussion ongoing for magnetic field direction



nterfaces (finally) de



Doxygen documentation ongoing, server hosted in Roma (ST, MSD, CA not done)

SHOE documentation

Main Pag	ge Related Pages	Modules	Namespaces 🔻	Classes -	Files 🔻			
TAVTactNtuVertex Class Reference								
NTuplizer f	or VTX vertices. More							
Inheritance	e diagram for TAVTactNt	tuVertex:						
						TNamed		
						Técnomod		
						TAGnamed		
						TAGaction		
						TAVTactBaseNtuVertex		
						TAVTactNtuVertex		
Public I	Member Functio	ons						
			me=0, TAGdataDs	c *p_ntutrack=0	, TAGdata	Dsc *p_ntuvertex=0, TAGparaDsc *p_config=0, TAGparaDsc *p_geomap=0, TAGparaDsc *p_geomapG=0, TAGdataDsc *p_bmtrack=0)		
virtual	~TAVTactNtuVertex (Destructor.)						
void	SetEps (Double_t q) Set tolerance.							
Double_t	GetEps () const							
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void	Get tolerance. SetMinimumZ (Double Set miminum Z for ver	_ /						
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Detailed Des	cription
NTuplizer for VTX v	ertices.
Constructor &	& Destructor Documentation
 TAVTactNt 	uVertex()
TAV factivitu vertex	:::TAVTactNtuVertex (const char * name = 0,
	TAGdataDsc * pNtuTrack = 0,
	TAGdataDsc * pNtuVertex = 0,
	TAGparaDsc * pConfig = 0,
	TAGparaDsc * $pGeoMap = 0$,
	TAGparaDsc * $pGeoMapG = 0$,
	TAGdataDsc * pBmTrack = 0
)
Default constructo)r.
Parameters	
[in] na	ne action name
	tuTrack track container descriptor
_	tuVertex vertex container descriptor
-	onfig configuration parameter descriptor
_	eoMap geometry parameter descriptor
-	eoMapG target geometry parameter descriptor

XIV FOOT collaboration Meeting

Local/Global Reconstruction is available:

- Please using the latest version (master or newgeom) for reconstruction:
- Helping a lot for debugging and make the code more stable -(many thanks to Yun, Giuseppe, Roberto Z.... who are our Beta testers)
- Please push your changes in the newgeom branch to make them available for everybody

Pb of recurrent man power, need at least one guy per detector Calibration/alignment done by the core team !

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What's ahead of us.

- Improve documentation:
 - Update the twiki page, could be improved
 - http://arpg-serv.ing2.uniroma1.it/twiki/bin/view/Main/FOOTSoftware
 - We still need to update the Doxygen documentation
 - http://arpg-serv.ing2.uniroma1.it/FOOTshoe/shoe/html/index.html
- Analyse GSI2021 HIT2022 CNAO2022 data: still pending issues



Thanks for your attention

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