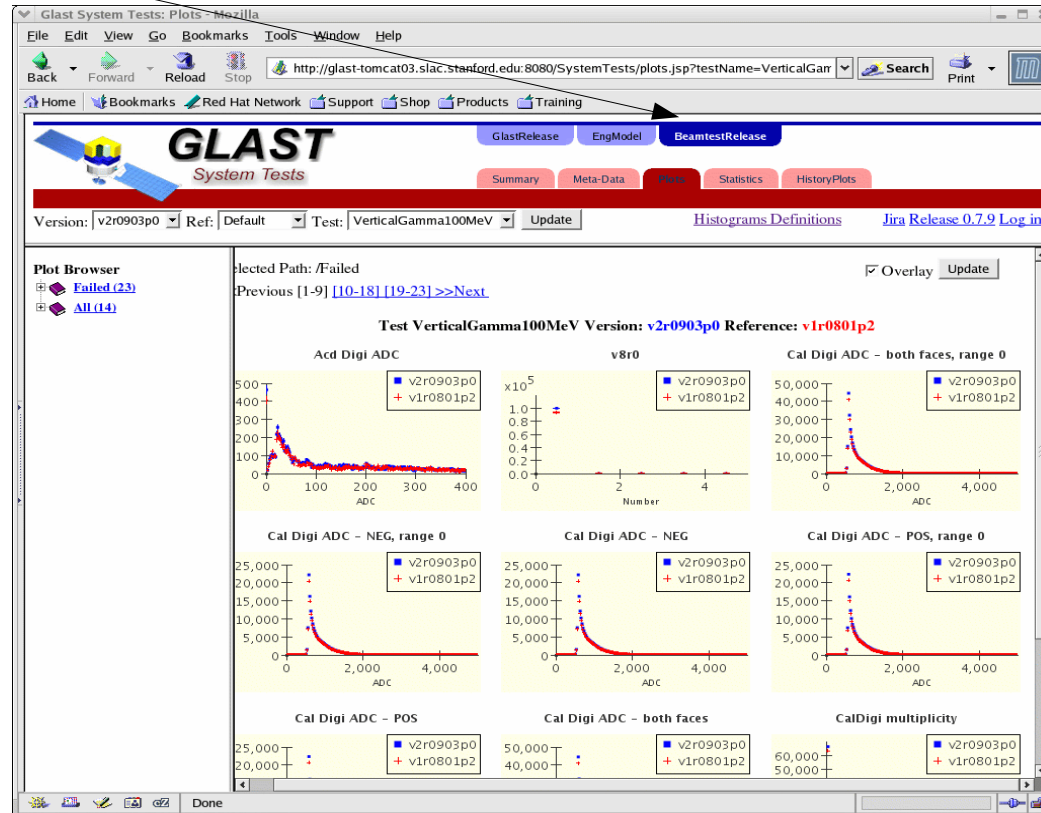


System Tests

- GlastRelease – We are currently at v9r4
- Engineering Model – Currently at v6r070329p16.
 - Two new data tests have been added: LAT and LAT-LICOS_FSW
- BeamtestRelease – new package added to the systests.



GlastRelease v9r4

For most tests, a majority of the distributions are different compared with v9r3!

GLAST System Tests

Version: v9r4 Ref: Default Update Histograms Definitions Jira Release 0.7.9 Log in

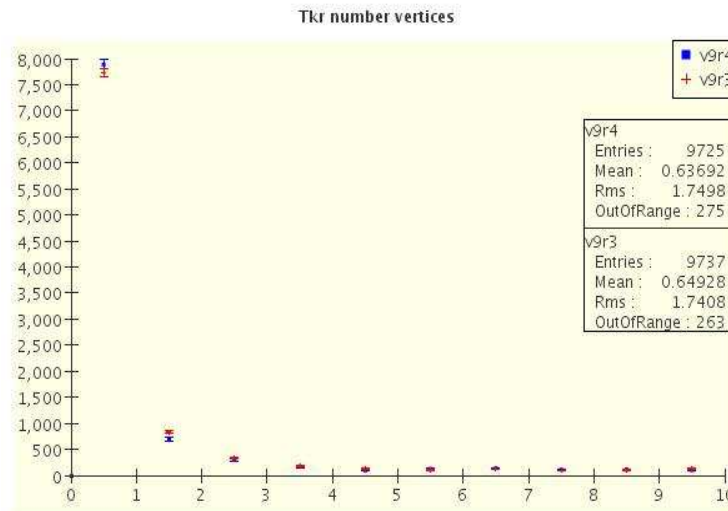
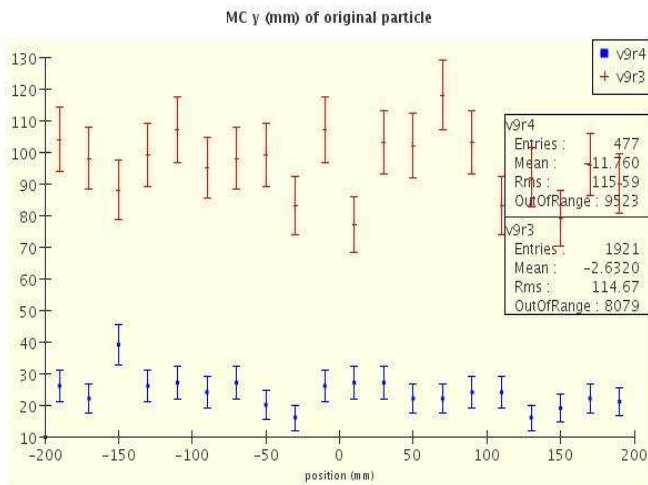
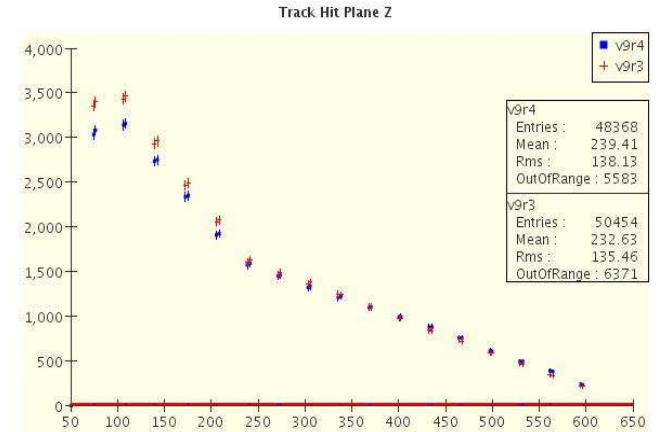
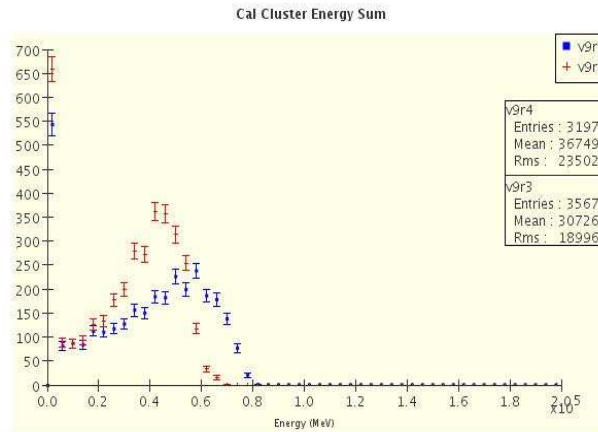
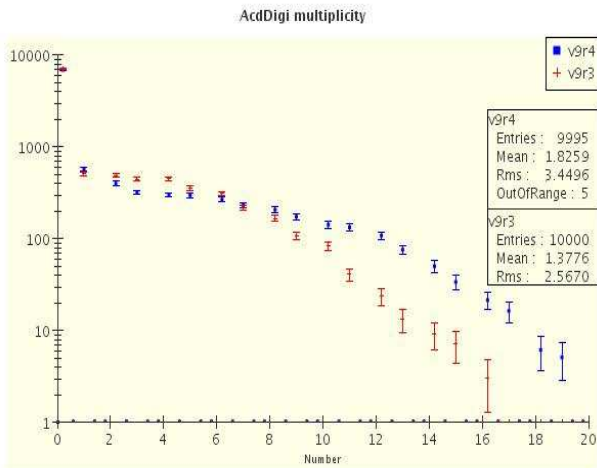
Summary for GlastRelease version v9r4

Default reference for this release is v9r3 . [Commentary](#) [RM Summary](#)

Test Name	Date	CPU (secs)	Memory (MB)	Plots (All/Fail)	Links
ACDDigi	May 19, 2006	0	NA	0 / 0	
ACDTop	May 19, 2006	0	NA	0 / 0	
AllGamma	May 19, 2006	8879	336	111 / 53	log meta-data files
BackGndAvg	May 19, 2006	11	1	0 / 0	log meta-data files
CALSingleCrystal	May 19, 2006	5	1	0 / 0	
VerticalGamma100GeV	May 20, 2006	34243	306	110 / 87	log meta-data files
VerticalGamma100MeV	May 19, 2006	8450	374	110 / 82	log meta-data files
VerticalGamma10GeV	May 19, 2006	9743	262	110 / 80	log meta-data files
VerticalGamma1GeV	May 19, 2006	9140	337	110 / 83	log meta-data files
VerticalGamma300GeV	May 20, 2006	42629	253	110 / 80	log meta-data files
VerticalMuon1GeV	May 19, 2006	10676	538	101 / 8	log meta-data files
VerticalProton1GeV	May 19, 2006	10254	529	101 / 21	log meta-data files

Lots of failed plots

What has changed?



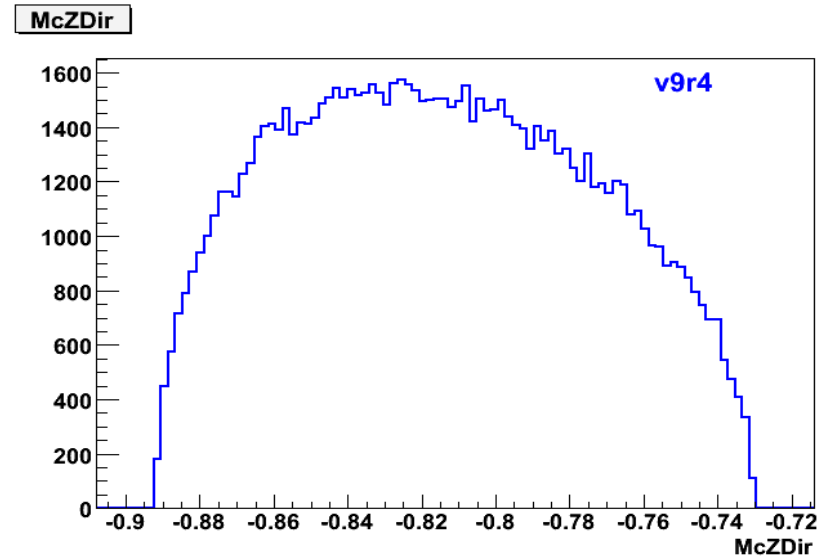
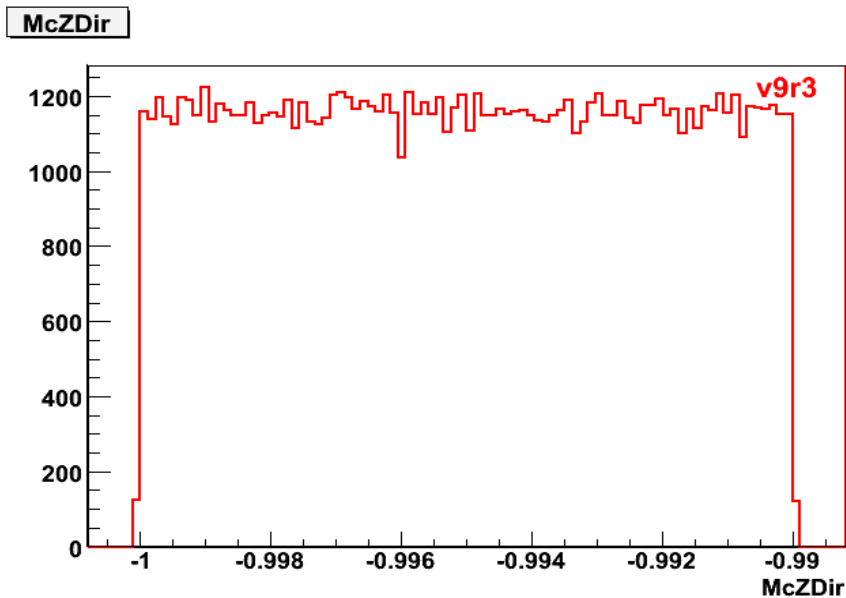
Pretty much everything has changed, MC, Tkr, Cal, ACD...

The cause

There have been substantial changes to the ACD and blanket geometry, but not enough to give rise to what we are seeing.

This number of changes suggests a large change in geometry or source definition.

VerticalGamma100MeV



The incoming gammas are no longer vertical!

This is because the orientation of the LAT has changed.

Summary

- The default mode of the LAT has been changed from zenith pointed to rocking.
- This causes problems for many source simulations because the reference frame used when defining the fluxes is with respect to Earth zenith not instrument zenith. In zenith pointed mode, the instrument zenith is aligned with Earth zenith.
- This will not be a problem for MC with explicitly specified orbit (i.e. the recent background runs are unaffected)
- It may be worth consider changing the default pointing mode back to zenith pointed. Zenith-pointed mode is valid (but not really recommended) for astrophysical/celestial simulations, but rocking mode gives incorrect results for instrument performance type simulations (allgamma, vertical etc).
- Since the effective source geometry has changed, it is not really possible to use the v9r4 systests to study the effect of recent changes in ACD geometry, digi and recon.