

Data Handling Update

February 17 2005

System Tests

- New Web Front-End now at version 0.7.2
 - New features
 - Most tables now sortable by clicking on header
 - Links added between meta-data/statistics and plots
 - Navigation improvements on plot page
 - Features of each release + future plans tracked in JIRA
 - <http://jira.slac.stanford.edu/secure/BrowseProject.jspx?id=10140&report=changelog>
 - <http://jira.slac.stanford.edu/secure/BrowseProject.jspx?id=10140&report=roadmap>
 - Now moved to <http://glast-ground.slac.stanford.edu/SystemTests/>
 - glast-ground now “outside the firewall”, so accessible world-wide
- This release is almost complete
 - Most user requirement satisfied
 - A few put off because require changes to underlying infrastructure/tools
 - Working on user/expert customization.

System Tests Front-End

GLAST System Tests - Mozilla Firefox

http://glast-ground.slac.stanford.edu/SystemTests/summary.jsp

ben's auto

GLAST System Tests

GLASTRelease EngModel

Summary Meta-Data Plots Statistics HistoryPlots

Version: v6r0 Ref: Default Update [Release 0.7.2 Log in](#)

Summary for GlastRelease version v6r0

Default reference for this release is v5r0p2. [Commentary](#)

Test Name	Date	CPU (secs)	Memory (MB)	Plots (All/Fail)	Links
ACDDigi	Jan 31, 2005	0	NA	0 / 0	
ACDTop	Jan 31, 2005	0	NA	0 / 0	
AllGamma	Jan 31, 2005	13377	402	102 / 26	log meta-data files
BackGndAvg	Jan 31, 2005	11288	363	89 / 18	log meta-data files
CALSingleCrystal	Jan 31, 2005	5	1	0 / 0	
VerticalGamma100MeV	Jan 31, 2005	20383	837	102 / 26	log meta-data files
VerticalGamma10GeV	Jan 31, 2005	10879	244	102 / 26	log meta-data files
VerticalGamma1GeV	Jan 31, 2005	15088	393	102 / 26	log meta-data files
VerticalMuon1GeV	Feb 1, 2005	21271	364	89 / 21	log meta-data files
VerticalProton1GeV	Jan 31, 2005	19460	388	89 / 16	log meta-data files

GLAST System Tests - Mozilla Firefox

http://glast-ground.slac.stanford.edu/SystemTests/plots.jsp?testName=BackGndAvg&plotPath=/Failed

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Summary Meta-Data **Plots** Statistics HistoryPlots

Version: v6r0 Ref: Default Test: BackGndAvg Update [Release 0.7.2 Log in](#)

Plot Browser

- Failed (18)
 - POSENERGYDEP
 - POSMCTKRTRAY
 - POSMCZ
 - TKRHITACTDIS
 - TKRHITPLANEZ
 - TKRHITRADLEN
 - TKRNUMTRACKS
 - TKRNUMVERTICES
 - TKRTRKENERGY
 - TKRTRKNHITS
 - TKRTRKQUALITY
 - TKRTRKSLLOPEX
 - TKRTRKSLLOPEY
 - TKRTRKSTARTZ
 - TKRVTXNUMTRK
 - TKRVTXQUALITY
 - TKRVTXSTARTZ
 - TRGBITS
- All (13)

Selected Path: /Failed

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Test BackGndAvg Version: v6r0 Reference: v5r0p2

McPositionHit Deposited Energy

McPositionHit Tkr Tray Number from Volu...

McPositionHit local z position

Active Distance

Track Hit Plane Z

Track Rail.en/plane

Tkr number fit tracks

Tkr number vertices

Track Energy

http://glast-ground.slac.stanford.edu/SystemTests/plot-main.jsp?plotPath=/All/Tracker/TKRTRKENERGY

<http://glast-ground.slac.stanford.edu/SystemTests/>

Pipeline

- Pipeline in use, working, if a little awkward for some tasks
 - Test database has been set-up for working on improvements without interfering with running system
 - Ability for tasks to depend on input from other tasks being tested, should be ready for users next week.
- Web Front-End
 - <http://glast-ground.slac.stanford.edu/>
 - Supports
 - Up/download XML configuration
 - View status of tasks (basics working, filtering *etc* under development)
 - Edit properties of running tasks (soon)
- Future
 - Make sure current system can scale up to handle expected requirements for next 6 months
 - Planning next generation pipeline which will make scheduling of complex tasks either.

glast ground software

Home
Login
Pipeline (prod)
Change Server to dev
Task Run Summary
Configure Pipelines

Task Run Summary
12 items found, displaying all items.
1

Name	Done	Failed	Running	Waiting	Finalizing
allGamma-GR-HEAD1_403	176	0	0	0	0
allGamma-GR-v5R0p2	50	0	0	0	0
allGamma-GR-v5R0p2-Twra	50	0	0	0	0
configReport-EM2-v1r0	1812	31	0	0	0
demo	22	0	0	0	0
digReport-EM2-v1r0	1244	2	0	0	0
digitization-EM2-v1r0	1236	238	0	0	0
online-EM2-V1r0	1890	138	0	0	6
recon-EM2-v1r0	632	0	29	0	0
reconReport-EM2-v1r0	633	0	0	1	0
svacTuple-EM2-v1r0	633	1	1	0	0
updateELogDB-EM2-v1r0	1843	15	0	11	0

Data Server

- Testing of performance of meta-data database underway
 - Intended to allow very rapid selection of events based on limited set of criteria (position, energy, time)
 - See results and discussion at:
 - <http://confluence.slac.stanford.edu/display/ds/Data+Server+Ideas>
 - Plan to allow refinement of meta-data selection using “TCut” selection of full merit tuple.
 - Web interface will allow data selection, event browsing, remember favorite searches, etc.
 - Plan to have web “mock-up” of web interface available next week.
 - Wired event display (for web based event browsing) interfaced to Glast HepRep server (see pictures on next page)
- Planning to have rudimentary system for DC2 background studies by April
- In parallel planning for full-featured system further down the road

