

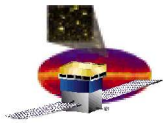
# Flight Integration Analysis Workshop

## SAS Support Model

Richard Dubois



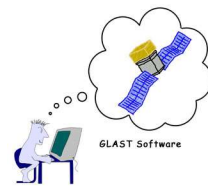
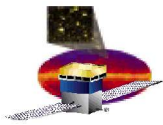
Created with OpenOffice for Windows



# Sim/Recon

- **Sim/Recon code – EngineeringModel package**
  - **Package manager = Heather**
  - **EM based on GlastRelease tag (currently v4r4)**
    - **Some picking and choosing of sub-package versions based on I&T needs**
    - **Allow for cvs branching of sub-packages to allow for bug fixes**
  - **Builds done by Release Manager**
  - **System tests are run on EM releases**
    - **Run and scanned by Julie**





# Release Manager Builds

LAT GLAST SW Astro-ph recent WB RM CVS JIRA Confluence VRVS RootSupport

[\[overview\]](#) [\[packages\]](#) [\[builds\]](#) [\[recent errors\]](#) [\[RM Docs\]](#)

### EngineeringModel releases

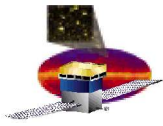
version	checkout	compile	unit tests	date
<a href="#">v3r0404p1</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-09-14 15:02:20
<a href="#">v3r0404p0</a>	<a href="#">76/76</a>	<a href="#">83/83</a>	<a href="#">43/43</a>	2004-08-23 11:32:27
<a href="#">v3r0402p23</a>	<a href="#">76/76</a>	<a href="#">80/80</a>	<a href="#">43/43</a>	2004-08-17 09:02:53
<a href="#">v3r0402p22</a>	<a href="#">76/76</a>	<a href="#">80/80</a>	<a href="#">43/43</a>	2004-08-12 23:47:32
<a href="#">v3r0402p21</a>	<a href="#">75/75</a>	<a href="#">79/79</a>	<a href="#">43/43</a>	2004-08-05 00:35:45
<a href="#">v3r0402p20</a>	<a href="#">70/70</a>	<a href="#">74/74</a>	<a href="#">41/42</a>	2004-07-22 23:03:19
<a href="#">v3r0402p19-patch</a>	<a href="#">70/70</a>	<a href="#">0/0</a>	<a href="#">0/0</a>	2004-07-22 22:47:44
<a href="#">v3r0402p19</a>	<a href="#">70/70</a>	<a href="#">74/74</a>	<a href="#">42/42</a>	2004-07-22 10:33:44
<a href="#">v3r0402p18</a>	<a href="#">69/69</a>	<a href="#">73/73</a>	<a href="#">42/42</a>	2004-07-07 16:31:40
<a href="#">v3r0402p17</a>	<a href="#">69/69</a>	<a href="#">73/73</a>	<a href="#">42/42</a>	2004-06-26 11:17:20

### EngineeringModel release candidates

version	checkout	compile	unit tests	date
<a href="#">HEAD1.156</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-09-16 14:34:28
<a href="#">HEAD1.155</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-09-15 20:02:37
<a href="#">HEAD1.154</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-09-15 10:47:17
<a href="#">HEAD1.153</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-09-15 10:17:28
<a href="#">HEAD1.152</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-09-14 15:02:23
<a href="#">HEAD1.151</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-09-14 13:17:06
<a href="#">HEAD1.150</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-09-10 10:32:31
<a href="#">HEAD1.149</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-08-27 10:11:18
<a href="#">HEAD1.148</a>	<a href="#">77/77</a>	<a href="#">84/84</a>	<a href="#">44/44</a>	2004-08-27 01:17:57
<a href="#">HEAD1.147</a>	<a href="#">77/77</a>	<a href="#">83/84</a>	<a href="#">31/43</a>	2004-08-26 22:07:08

### EngineeringModel integration

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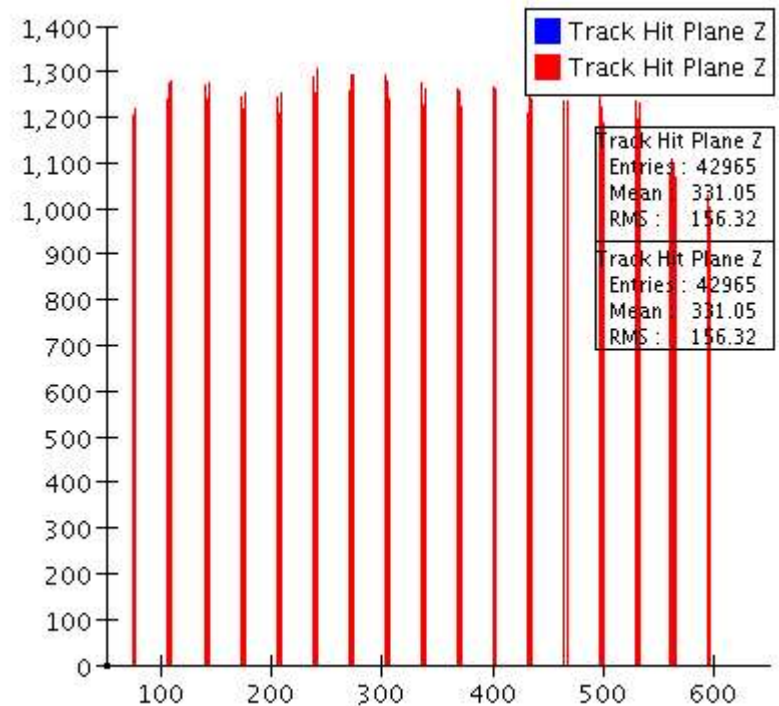
# System Tests

## Tests currently available:

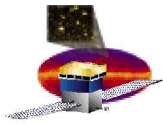
- Surface muons – 2 towers
- Vertical g – 100 MeV – 16 towers
- Vertical g – 100 MeV – 1 tower
- Vertical g – 100 MeV – 2 towers
- VdG – 2 towers

Compare current against standard

Track Hit Plane Z



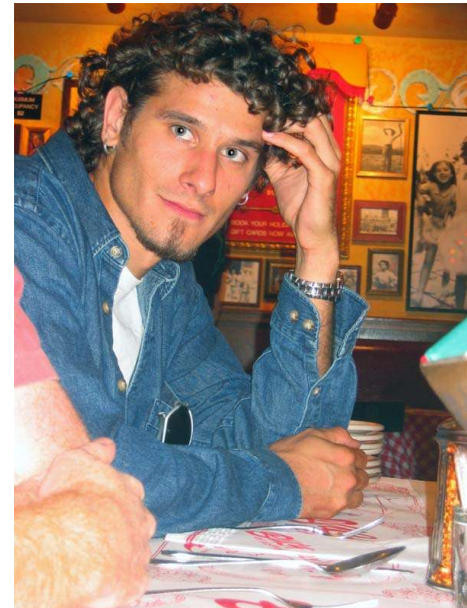
<http://www-glast.slac.stanford.edu/software/SysTests/TestInfo.asp>

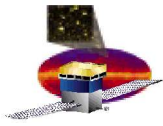


# Pipeline

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- Pipeline written and supported by Dan
- Up and running now, with some workarounds
- Expectation is that I&T configures their tasks and sets them in motion
- Matt is in the process of creating the web front end
- Pipeline will bleat if there are problems
- Two mailing lists -
  - [pipelinelist@glast.stanford.edu](mailto:pipelinelist@glast.stanford.edu)
    - announcements/discussion
  - [pipeline-notify@glast.stanford.edu](mailto:pipeline-notify@glast.stanford.edu)
    - bleats from the server





# Help Desk

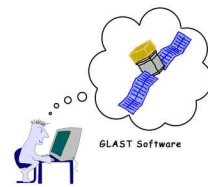
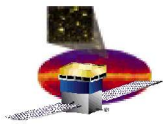
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- **Amorphous questions should be sent to helpsoft mailing list**
  - **If something is bust, but you're not sure what**
  - **Viewed by all developers**
  - **Web viewable archive as per all GLAST lists**
- **Use bug tracking system when problem is identifiable**
  - **JIRA**

<http://www-glast.slac.stanford.edu/software/IssueTracker/>

<http://confluence.slac.stanford.edu/display/SASJIRASUM/Home>

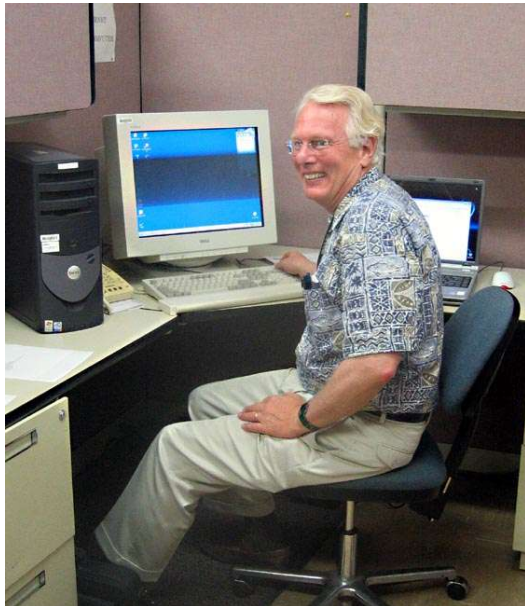
<http://jira.slac.stanford.edu/secure/Dashboard.jspa>



# Documentation

## User workbook is in progress

- Focusing on “event analysis” portion first to accommodate Flight Integration schedule
- Use of ntuple, RootTreeAnalysis macro and userAlg coming soon



Chuck Patterson



Search

GO

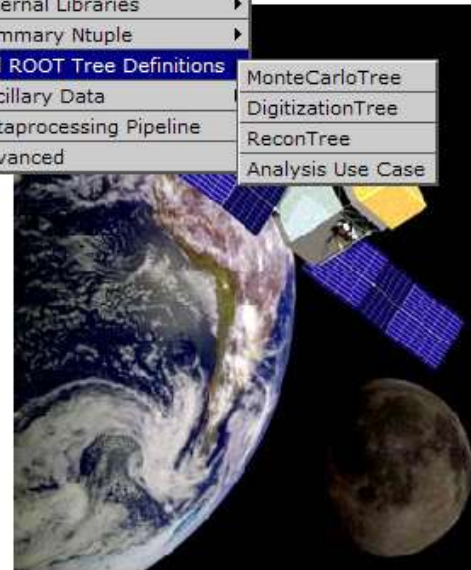
New to GLAST?

Home

## Workbook for Offline Users

- Software Infrastructure
- LAT Offline Architecture
- Science Tools
- Analysis
- Modifying C++
- Contributing Software
- Resources

- Gaudi Framework
- External Libraries
- Summary Ntuple
- Full ROOT Tree Definitions**
  - MonteCarloTree
  - DigitizationTree
  - ReconTree
  - Analysis Use Case
- Ancillary Data
- Dataprocessing Pipeline
- Advanced



### Active Menus:

#### LAT Offline Architecture:

- [Summary Ntuple](#)
- [Analysis Use Case 1](#)
- [Analysis Use Case 2](#)
- Full ROOT Tree Definitions:
  - [Monte Carlo Tree](#)
  - [Digitization Tree](#)
  - [Recon Tree](#)

#### Resources:

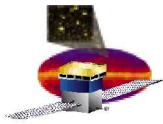
- [Glossary](#)
- [Meetings](#)

#### Active Buttons:

- New to GLAST
- Home

### Pages in Progress:

- See ['New to Glast?'](#)



# Change Control

- A CCB has been formally set up to approve changes to SAS/svac supplied software running for I&T
  - EM package version changes
  - Pipeline function changes
  - Scripts etc run in the pipeline
- Committee
  - Bill, Eddy, Richard (chair), Steve
  - To be convened for changes after Flight Integration starts

