GLAST
Science Support Center
Plans for β-test

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Science Analysis Tools β-test

- ## **SW release targeted for March 17, 2008**

- ## **~2 month LEO simulation DB**

- ## **Documentation posted 2/27/08**

- ## **Complete re-write of reference manual (i.e. familiar "fhelp" for individual applications)**

- ## **Also overview guides and analysis threads**

  - *Latter are currently hosted by SLAC & contains some instrument-team-specific hooks*

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GLAST Standard Analysis Environment Documentation

Welcome to GLAST's Standard Analysis Environment (SAE)! The SAE consists of the basic tools necessary to analyze GLAST data. And this is the place to begin to learn how to install and use these tools.

The documentation consists of four sections that will be useful to you at different stages of your mastery of the SAE:

Installing the science tools—instructions for setting up the analysis tools on the different supported operating systems
- Analysis threads—step by step descriptions of standard analyses, including a very basic crash course
- Cicerone—a detailed description of the analysis environment and its methodology. The entire Cicerone is also available in one printable Word document.
- Reference manual—a description of each tool and its input. These are the pages from the fhelp system (the pages that result from invoking 'fhelp gtxxxxx,' where gtxxxxx is the name of an SAE tool).

So how should you begin? This depends on your learning style. If you have a basic understanding of the methods of gamma-ray astronomy, know something about the LAT and the GBM, and like to learn by example, then you might want to start by installing the science tools, and then work through some of the analysis threads. In particular, you might want to start with the crash course.

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- **March time frame precedes the planned pre-release freeze date by ~7 months**

  - *A ~1-month turnaround for tester feedback leaves time to incorporate changes.*

- **Migration to "hmake" build system in place**

  - *Binary distributions can still be provided, but building from source is the encouraged route*

- **In addition to GUG members some additional testers identified, e.g.**

  - *Members of the LAT team*

  - *Other mission science center staffs*

  - *Experienced CGRO/EGRET analysts*

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- ## *What are the goals?*

  - *Is the software, within the context of other Astrophysics analysis packages, reasonably straight forward to obtain, unpack, build, install?*

  - *Is the documentation reasonably: Complete? Hierarchically structured? Clear, concise?*

  - *Assess the usability, functionality and performance*

  - *Are the appropriate capabilities, methodologies for GLAST analysis (as you perceive it) present incorporated*

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- ## What are the goals? *(con)*

  - *Identify Significant omissions? Possible Enhancements?*

    - ➢ *Critical issues?*
    - ➢ *Wishlist items?*
    - ➢ *New tools needed?*

  - *Interoperability concerns relative to other high-energy missions?*

- ## Compile feedback, define & implement actions

  - *Web form solicitation planned near end of exercise*

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- **Use of GSSC helpdesk, online FAQs encouraged**

- **Additional follow-up discussions at next GUF F2F meeting**

    - *GSSC will also follow-up with non-GUG testers*

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Getting Started

- **Straight-forward "cookbook" scenarios to get started**

- **Testers can then concentrate on areas of interest & personal expertise such as pulsars, Blazars , etc.**

- **Can we identify some volunteers towards this end here & now?**