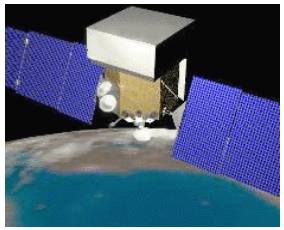
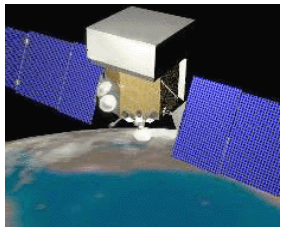


Documentation and DC1

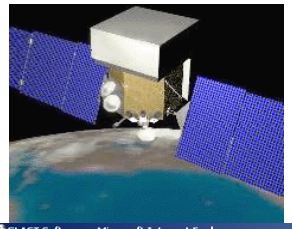
What I plan to do for my summer vacation

Heather Kelly
for the Documentation Task Force



Documentation…who cares?

- GLAST has seen a large influx of new people
- Updates to the software need to be communicated
- Preserve our memory of what has transpired



We have a start…

GLAST Software - Microsoft Internet Explorer

GLAST How-To Index

Welcome to GLAST Software. GLAST software development involves a large collaboration and can sometimes present a daunting challenge to users. Hopefully this page will point you to documentation that will ease the process, as well as detailing a number of tools that GLAST software uses to communicate.

There are various steps involved in setting up and using GLAST code. The following is a sequential list of steps for various stages of using and developing GLAST code, each containing a link to detailed instructions for that step:

1. Getting a SLAC Account
2. Setting up intra-collaboration communication tools
   a. Getting and Installing VRVS (web meeting tool)
   b. Getting and Installing ICQ (instant messaging tool)
   c. Subscribing to the mailing lists
3. Modifying the SLAC login profile
4. Supported Operating Systems
5. Getting and Installing SSH (Secure shell for logging on to other machines)
6. Getting and Installing CVS (Code Repository Software)
7. Installing CMT (Configuration management software)
8. Getting and Installing External Libraries
9. CMT for Windows and Unix (Building and Running the Code)
   a. Setting up and Using VCMT (Windows)
   b. Setting up CMT and Using Glastpack (Unix)
10. Developing the code for Windows and Unix
    a. Windows
    b. Unix
11. Documenting the code and Viewing the documentation
12. Major Distributions of GLAST Science Analysis Software
    a. GlastRelease
    b. Gleam

Developers of flight software should consult the list of paths for flight software.

As a check, here is a summary list of the environment variables you need to have set:

Introduction to SAS software

GLEAM User Guide - Microsoft Internet Explorer

GLEAM User Guide

- Introduction
  - Gleam Data Flow
- Acronyms and Terms
- Packages
  - Types of Packages
  - Gleam Packages
  - Package Directory Structure
- Obtaining GLEAM
  - Public Installations
    - UW Windows Server
    - SLAC Linux
  - Binary Distribution
  - CVS Repository and CMT
    - Windows
    - Linux
    - External Libraries
- Geant4
  - GLAST Geant4 Home Page
- Gaudi
  - GLAST Gaudi User Guide
- Running Gleam
  - Running Gleam the First Time
  - JobOptions
  - Sources
  - Event Display
- Developing Code
- UserAlg and Flight
  - Adding your own code
  - Accessing data on the Transient Data Store (TDS)
- Output
  - ROOT Ntuple
  - ROOT Trees
    - Monte Carlo
    - Digitization
    - Reconstruction

Gleam Users' Guide

Gleam Uses How To - Microsoft Internet Explorer

SAS How To

This page lists various use cases and a how-to for doing them yourself. It assumes that you already know how to build and run Gleam!

General How To's

- organizing your workspace
- using glastpack as a developer
- using SLAC batch
- creating a simple CMT application

Gleam specific How To's

- providing your own jobOptions file to Gleam
- analysing Gleam Root files
  - creating a Root ntuple from RootTreeAnalysis
  - simple ACD analysis
  - simple CAL analysis
  - simple TKR analysis
  - simple MC analysis
- Gleam analysis on the fly with userAlg
  - creating a Root ntuple from userAlg and simple CAL analysis
  - creating Root histograms via AIDA
  - simple ACD analysis
  - simple TKR analysis
  - simple MC analysis
- getting different sequences of MC events - setting the run number
- changing CAL response parameters in xml/JeoDbs/
- adding a material to the list

Gaudi Specific How To's

- create a Tool

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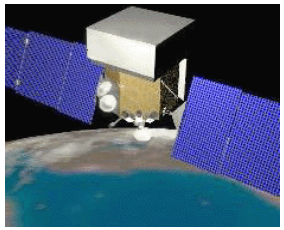
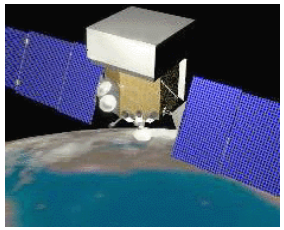
cookbook



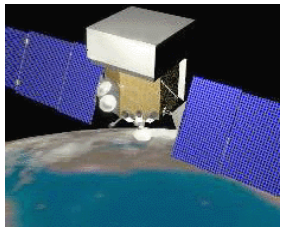
Suggestions from DC1 Planning

- document installation and use of Gleam
- document TDS & Root output classes
- document installation and use of analysis platform
- prepare sample analysis
- prepare user tutorial for the collaboration meeting



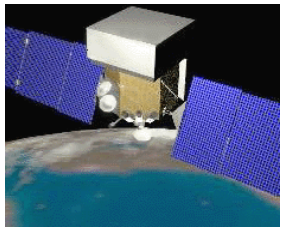
Cookbook Analysis

- Documenting the steps and stages of analysis is vital to insure reproducibility.
- We would like to enlist the help of the Analysis Group.
- Ntuple
  - Document every ntuple entry
  - Document all cuts – so that anyone can reproduce the results



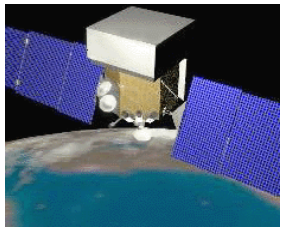
User Tutorial

- Provide tutorial for the collaboration meeting
- Hands on tutorial – bring your laptop
  - Distribute binaries
  - Walk through use of Gleam
  - Example Analysis
  - Answer questions in real time
- Web based for future use
- We need volunteers to help prepare the tutorial and to act as instructors.



Who's Going to do this?

- Well..as usual we need volunteers
- Subsystems and analysis group can help with ntuple descriptions
- Core group will be involved in updating the Gleam users' guide
- Any science tools used for DC1 should be documented



Schedule

Item	Due
Review&Update How-To Pages	asap
Update ntuple descriptions	End of July
Review&Update Gleam User Guide	mid-late August
Analysis	Outline: late Aug Details: Sept.
Create web-based tutorial	Collaboration meeting