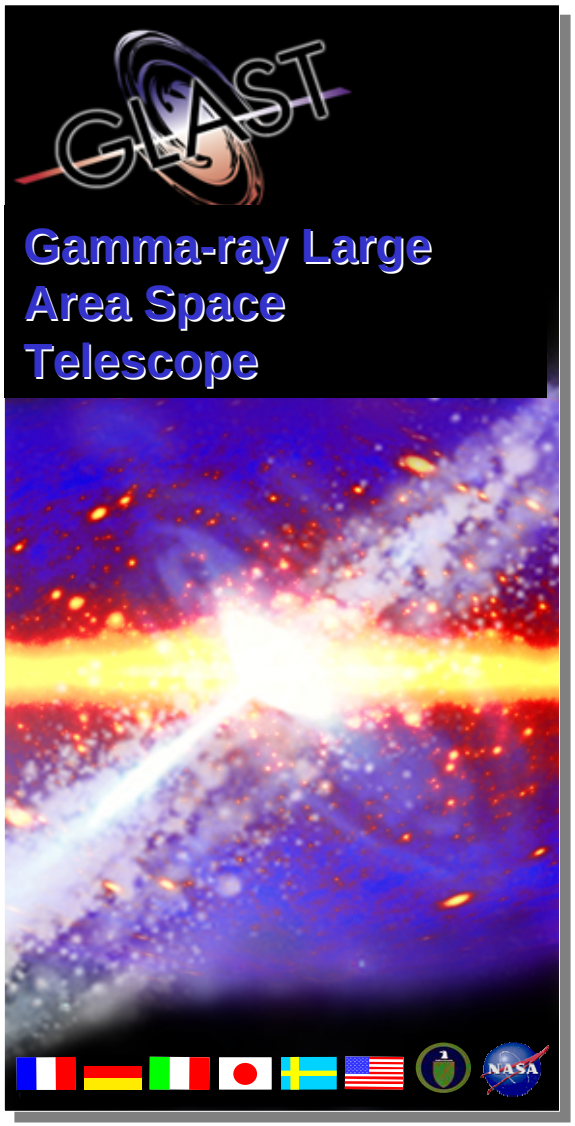

GLAST Large Area Telescope

Instrument Flight Software Development Team

Functional Demonstration
June 17, 2005

Stanford Linear Accelerator Center

Demonstration Agenda

Demo Agenda Item	Presenter
1. Overview of the Demonstration	Lawrence Jeung
5. Housekeeping Demonstration	Lawrence Jeung
6. Questions from Attendees	NA

Demonstration Overview

- Today's demo covers parts of Housekeeping
- Housekeeping
  - Implemented in the LHK and LMC packages
  - Provides:
    - LAT Housekeeping Data to SC
    - LAT Housekeeping Data Set
    - Housekeeping
    - ACD HSK Anomaly Response
    - Low Rate Science
    - Demand Telemetry

Housekeeping Demo Requirements Coverage

- **The Housekeeping Demo covers the following requirements:**
  - **5.3.5.1.7 Low Rate Science: The SIU FSW shall acquire low-rate science data (rate counters) from the CAL, TKR, ACD, and T&DF subsystems for transmission to the ground via telemetry.**
  - **5.3.5.1.8 Demand Telemetry: Upon request, the FSW shall provide the ability to schedule a specified housekeeping telemetry packet up to four times per second.**

Housekeeping Demo Description

- **Acquire Low-Rate Science Data**
  - **Acquire low-rate science data from the subsystems:**
    - **CAL**
    - **TRK**
    - **ACD**
    - **T&DF**
- **Demand Telemetry**
  - **Schedule one housekeeping telemetry packet once per second.**
  - **Schedule three housekeeping telemetry packets four times per second.**

Hardware Context of the Demonstration