



# **GLAST Large Area Telescope**

**Instrument Flight Software  
Development Team**

**Functional Demonstration  
February 03, 2005**

**Stanford Linear Accelerator Center**



# Demonstration Agenda

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Demo Agenda Item	Presenter
1. Overview of the Demonstration	Lawrence Jeung
2. Multiple Boot Images Demo	Lawrence Jeung
3. RAM Initialization Demo	Lawrence Jeung
3. Questions from Attendees	NA



# Demonstration Overview

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- Today's demo covers Boot Image Selection:
  - Showcases new boot code functionality for checking boot images stored in EEPROM and executing the image that passes checksum
  - Demonstrator runs a “clean” boot image to show what the error-free boot process looks like
    - Then uses a Corelis workstation to create a series of corrupted boot images and observe how the boot code handles and reports the errors
  - Addresses Requirement 5.3.1.2.2 (new in upcoming SRS V. 5)
- And RAM Initialization:
  - Demonstrator displays the contents of SIU RAM before and after initialization
    - Before boot, the uninitialized RAM contains some random words
    - After boot, the contents of RAM are redisplayed in
      - All memory successfully initialized to zeroes
  - Addresses Requirement 5.3.1.2.3 (new in upcoming SRS V. 5)



# Hardware Context for the Demonstration

- The demonstrations are run on the SDIS, a RAD750 crate acting as the SIU
- Off to one side, a Corelis workstation is used to introduce errors into boot images for Boot Image Selection Demo

