

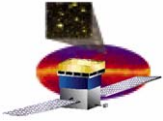
# **GLAST Large Area Telescope**

## **Instrument Flight Software**

**Monthly Status Review  
September 30, 2004**

**Jeff Fisher**

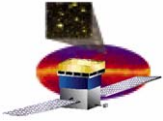
**Stanford Linear Accelerator Center**



# September activities

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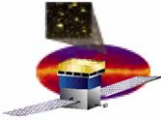
- Prepared for and conducted the Flight Unit Peer Review
  - Held on September 16<sup>th</sup>
  - Successfully completed
  - 6 RFAs generated



# September activities (2)

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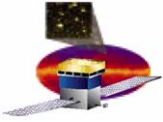
- **ISIS Development**
  - **Science Data interface is working**
  - **Development build is undergoing extensive testing**
- **Primary and Secondary Boot**
  - **EPU boot coding underway**
- **Intertask Communication System (ITC)**
  - **Continued coding of ITC**



## September Activities (3)

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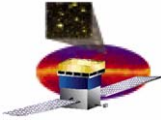
- **LAT Communications Board Driver**
  - **New driver successfully running all test cases**
  - **Driver design is stable and implementation virtually complete**
- **LAT Communications Board Test**
  - **Added new tests to exercise the new LCBD driver**
- **LAT Electronics Module Package**
  - **Conducting unit testing with new LCBD**



# September activities (4)

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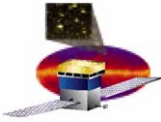
- **Housekeeping**
  - Completed unit testing with new LCBD driver and released package
  
- **FES**
  - Code added to support new ACD data files
  - Bug fixing activities continue



# FSW Test

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- **Weekly progress meetings to review progress vs. schedule will be held**
  - **Number of procedures (pseudo code) written**
  - **Number of scripts (code) written**
  - **Coordination of test stand availability to support test needs**
- **Offer in process for physics test engineer**



# Monthly Demonstration Schedule

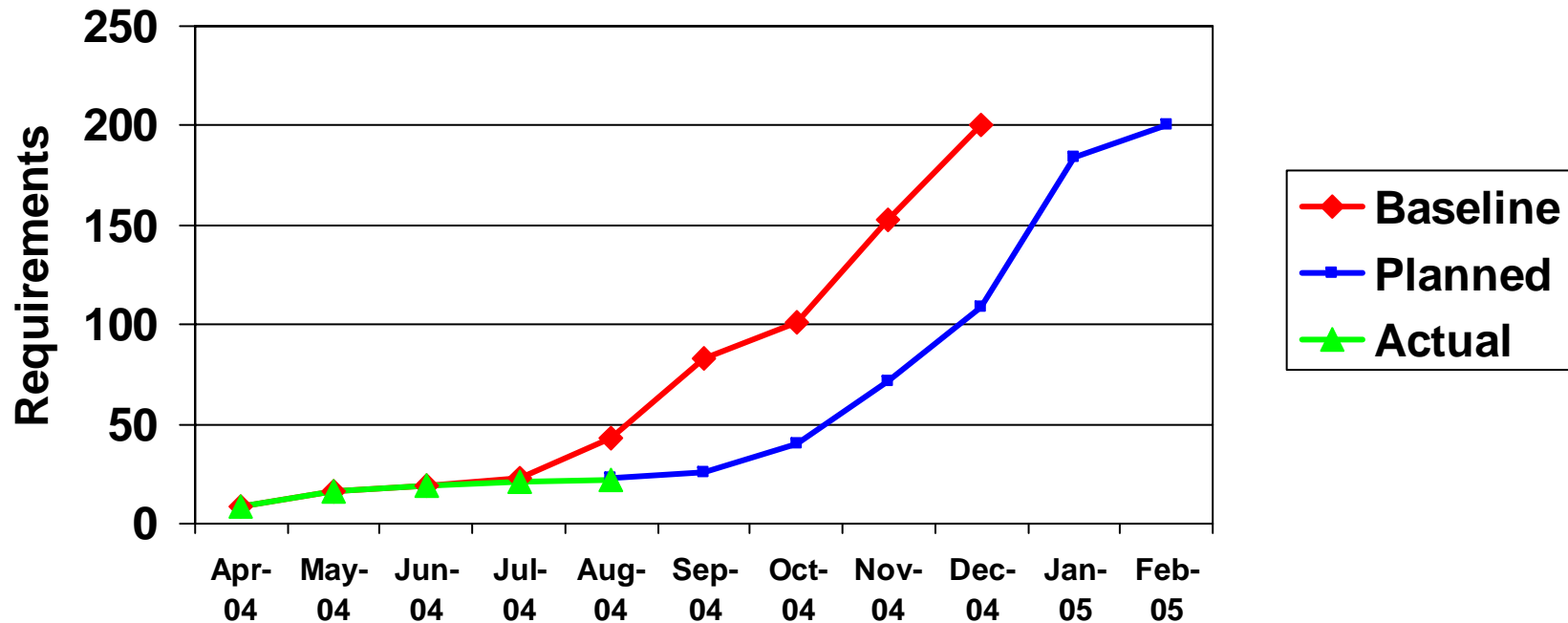
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- **Jun**            **Telemetry**
- **July**           **ITC/Housekeeping packages integrated**
- **Aug**            **ISIS**
- **Sept**           **LCB/Command & Telemetry**
- **Oct**            **EPU Boot/LCB Service/Power/Init GASU**
- **Nov**            **File Mgt/SC Interfaces/ITC**
- **Dec**            **C&T Data Dictionary/Thermal/Charge Injection  
Calibration**
- **Jan**            **Housekeeping/Event Integrity, Delivery, Filtering**
- **Feb**            **Mode Control/Diagnostics**



# Requirements-to-Demo Mapping

## Demo Status thru September



- ~13% requirements will be demonstrated as of this Friday's demo
  - 4 new requirements covering science data interface; command, configuration, and data collection interfaces
- Additional 15% of requirements partially demonstrated
- Only fully demonstrated requirements shown in graph





## Next 3 Month's activities:

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- **ISIS Build and Test scripts, TRR, FQT & Delivery**
- **Development of Flight Unit modules**
- **Development of Flight Unit test scripts**
- **Start developing formal release process**
- **Make PROM go/no-go decision**