LBTO Raw Data Cache and LBTO Archive

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Part 1

LBTO Raw Data Cache

Part 1 - Raw Data Cache

Just disk space
Just to “cover your butt!”

- Mechanism to write data to this disk
  - Need to define soon for Lucifer
- Minimal permissions
  - Write only - instruments
  - Read only – observers
- Minimal organization of cache
  - Subdirectories by UT date
- 6 months for data storage from all instruments
  - 6 to 7 Tbytes (182 days of LBC, 10 hours per night, image every 2 minutes, from both Red and Blue cameras)
- Copied to Tucson daily

Part 2

LBTO Archive

(A proposed solution)

LBTO Archive

Software management and access to raw data

- Extension of existing LBC archive to all instruments
- Size goal – Same as raw data cache
  - 6 months of data
- Facilitates data distribution
- Imposes additional data access control

Access

- Will provide access rules, such as…
  - Who can access what data
  - Other rules the LBT board wants to implement
- Data Access is through a web interface
- Supports search queries

Distribution

- Syncing data off mountain every day to Tucson – backup
- Tucson archive forwards data to Germany and Italy – daily
- Raw data is available at partner site < 24 hours after integration is complete

Conclusion

- Raw Data Cache
  - Has been funded for 2008
  - Need to procure HW
  - Need to establish Instrument communication mechanism
- LBTO Archive
  - Supported, but not yet funded.
  - Possible funding decision in April