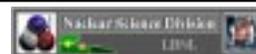


Grand Challenge data management system for MDC1

D. Olson

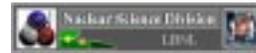
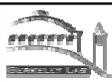
26 July 1998

STAR Collaboration Meeting

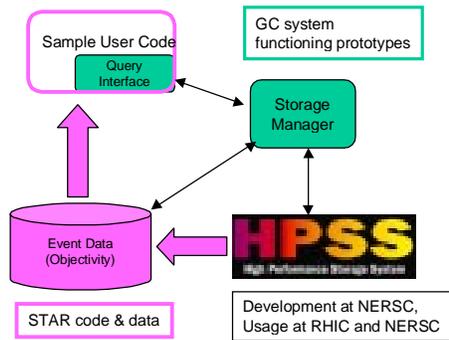


Outline

- Description & Status of GC software
- MDC1 - How do you use it?
- What needs to be done?
- Beyond MDC1

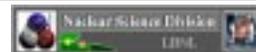
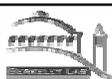


Data access s/w (simple view)

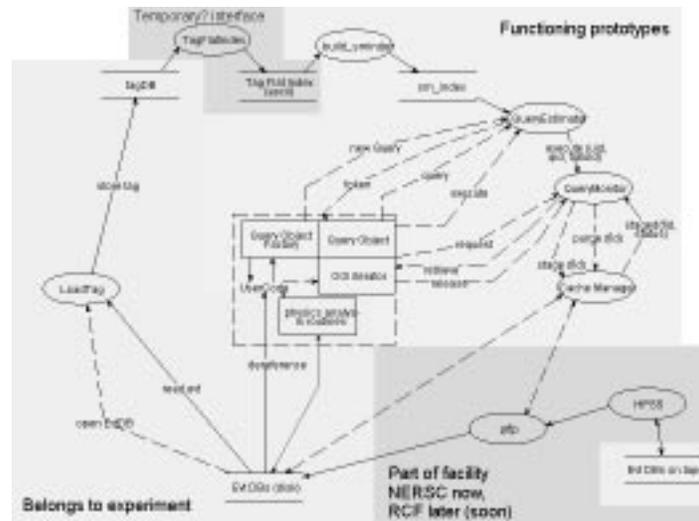


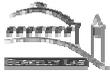
- key developers
 - Henrik Nordberg (NERSC) *query estimator*
 - Alex Sim (NERSC) *query monitor*
 - Luis Bernardo (NERSC) *cache manager*
 - Jeff Porter (LBL-STAR) *query object*
 - Dave Malon (ANL) *order-optimized iterator & gcaResources API*
 - Dave Zimmerman, (LBL-STAR)
 - Mark Pollack (BNL-PHENIX) *tagDB*
 - Jie Yang (UCLA,LBL,PRC) *testing*

Machinery to query tagDB & retrieve objects (in files) from HPSS (via pftp).



Current Status of GC Software



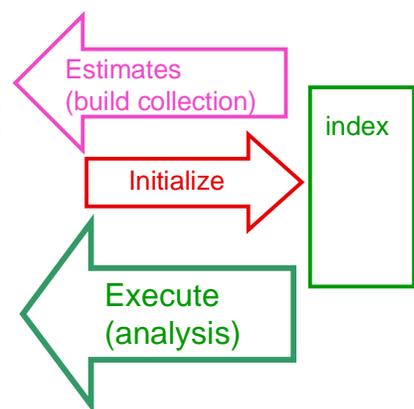
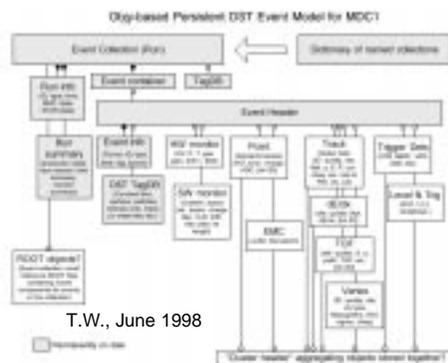


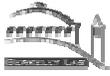
How do you use it?

- **Initialize system**
 - Extract attributes (base & derived) from tagDB
 - Build index for storage manager
- **Do query estimates.**
 - Number files
 - Time
 - Build OID list
- **Do query execution (run analysis)**
 - order optimization
 - pre-fetch files
 - iterate as files are returned

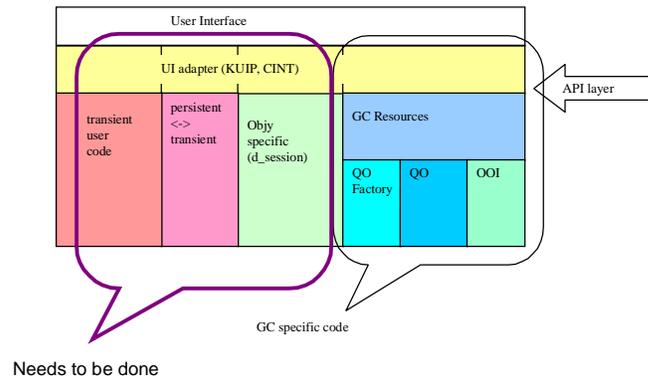


How you use it.





Interfacing to analysis code



7/26/98

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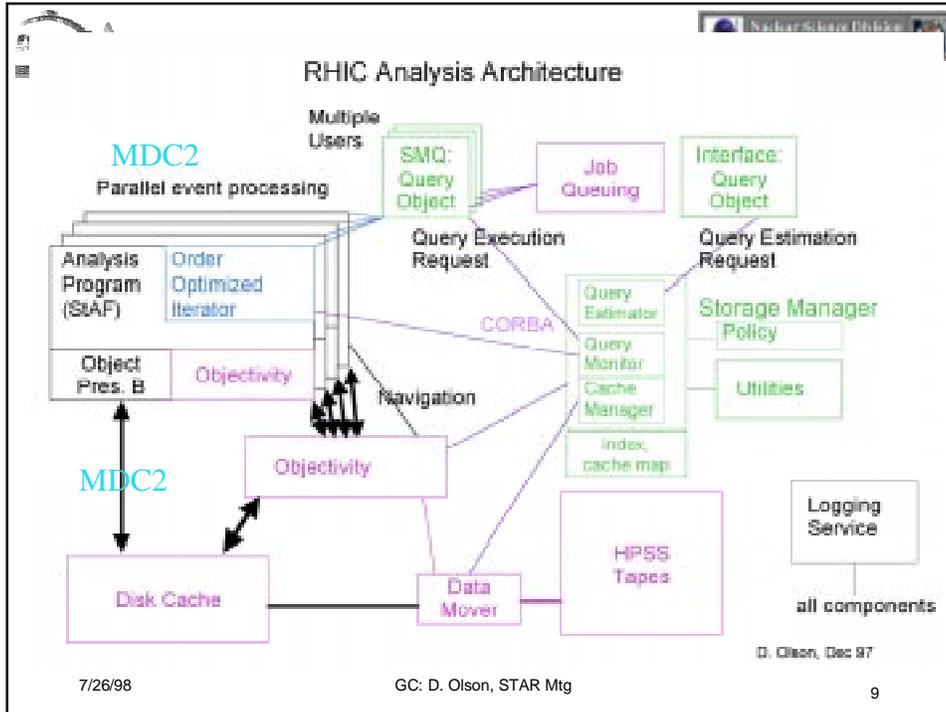
In Progress

- Robustness testing, hardening
- Add logging, monitoring of GC components
- Connection to real analysis code (connect Objectivity to analysis code)
- Define MDC scenarios for measurements
- Data mining scenarios of experiments

7/26/98

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- Questions that came up during talk**
- How do you/we write data?
 - How do we use tags?
 - We need a clear description during this week how people will use this.
 - (others I don't recall)
- 7/26/98 GC: D. Olson, STAR Mtg 10