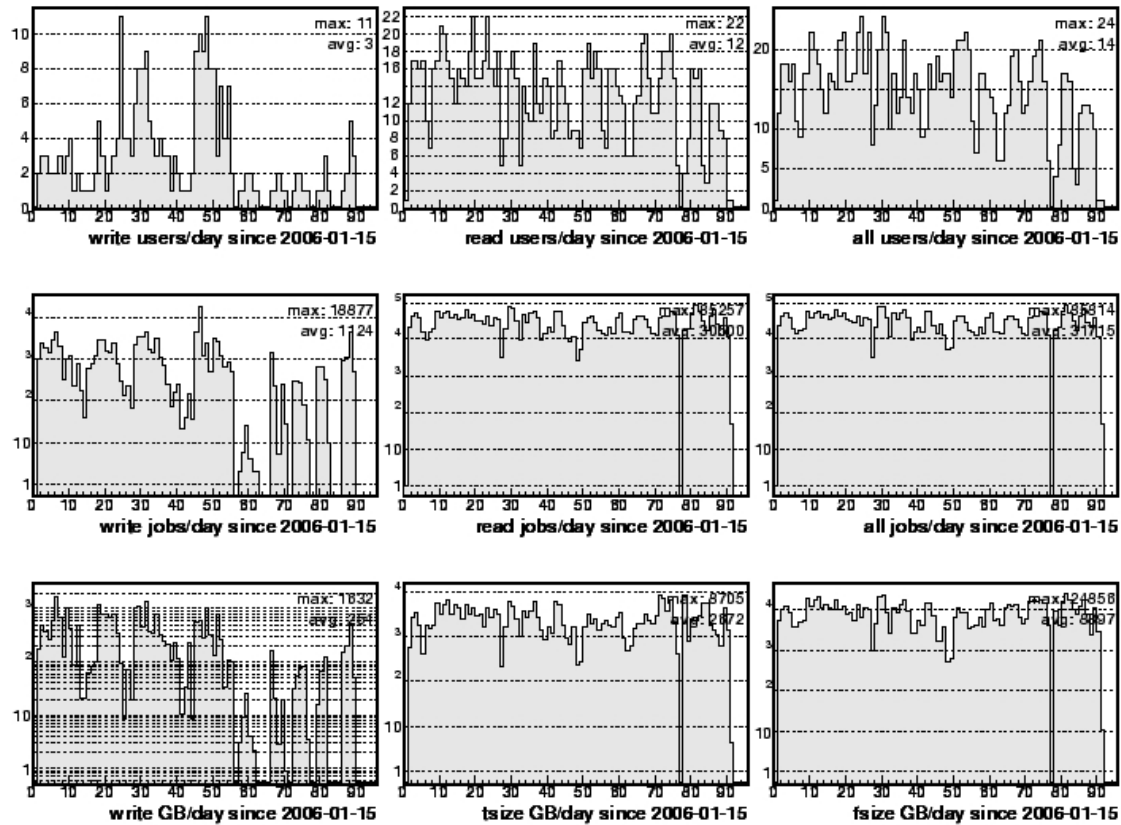


CDF Analysis Diskpool Status

Doug Benjamin and Dave Ambrose
with help from Alexei Varganov

- Use Case analysis
 - Analysis of Billing and door DB's
- System tests
 - fileserver rate tests
 - Pnfs database rate tests
 - New hardware (CMS Sataboy on loan)
- Plans

Daily diskpool usage



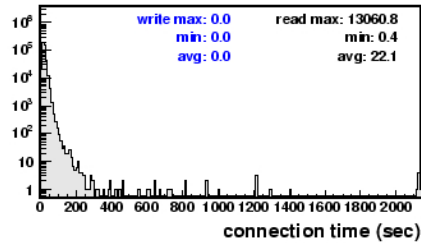
D. Ambrose

GDM April 18 2006

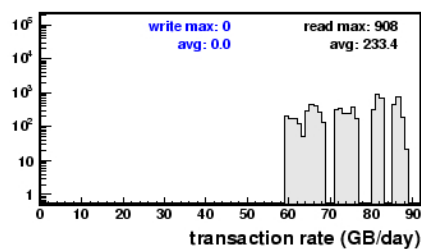
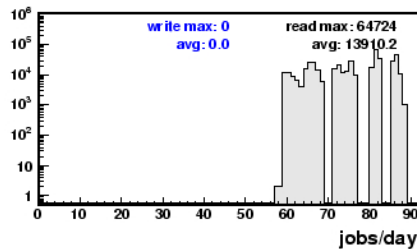
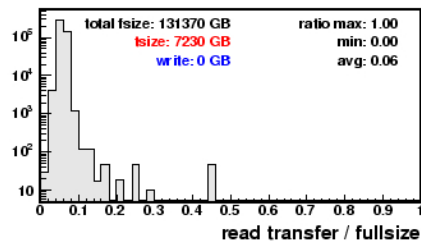
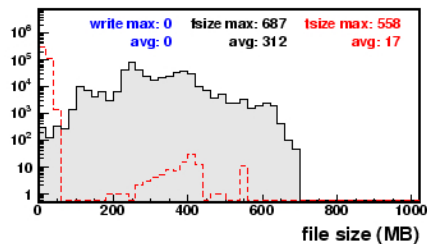
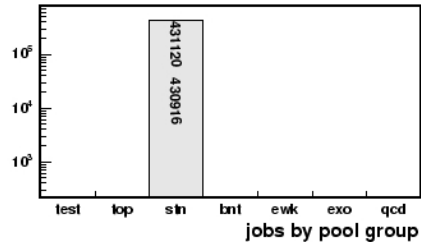
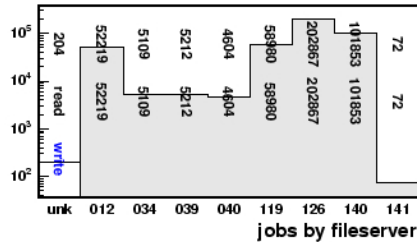
CDF Analysis diskpool status - D
Benjamin

Example user profile

Name: **F.Javier Cuevas**
 User: cuevas (no mail)
 Jobs: 431120 total, 0 write, 430916 read
 → cuevas@FNAL.GOV (310,0,310)
 → cuevas/cdf/h2caf@FNAL.GOV (430810,0,430606)
 Dates: 31.0 day span (13916.8 Jobs/day)
 → 2006-03-13 07:06:20.952 (first)
 → 2006-04-13 07:35:14.108 (last)
 Files used: 15560 total, 0 written, 15560 read



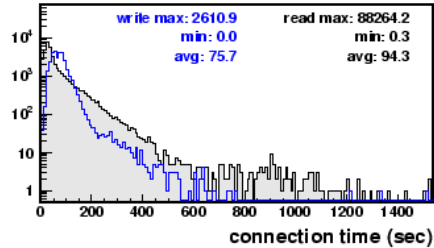
- Most prolific user
- Reading only
- ntuples



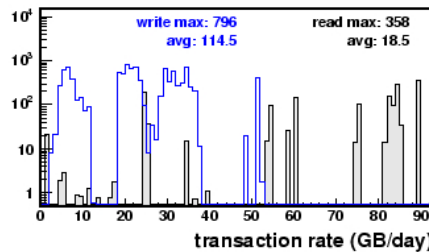
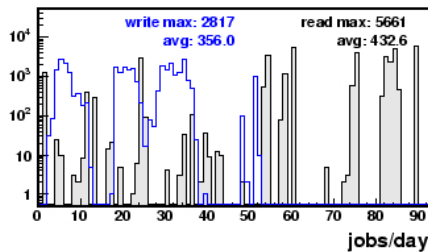
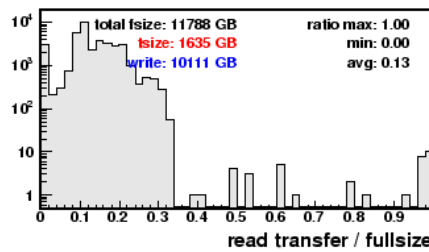
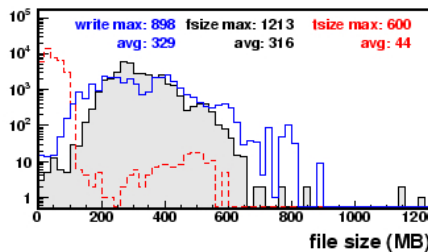
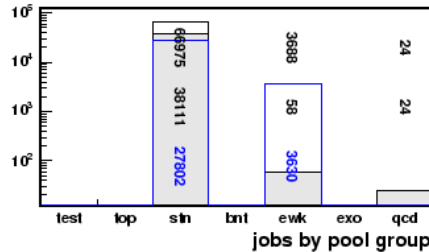
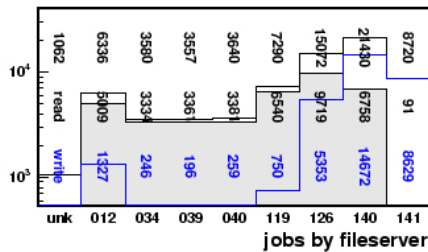
D Ambrose

Example user profile

Name: Raymond Culbertson
User: rlc (rlc@fnal.gov)
Jobs: 70887 total, 31432 write, 38193 read
 → rlc@FNAL.GOV (23210,7,23203)
 → rlc/cron/fcdfinfx8.fnal.gov@FNAL.GOV (13998,13513,0)
 → rlc/cron/fcdfinfx4.fnal.gov@FNAL.GOV (8107,7778,0)
 → rlc/cron/fcdfinfx7.fnal.gov@FNAL.GOV (10348,10134,0)
 → rlc/cdf/h2oaf@FNAL.GOV (15024,0,14990)
Dates: 88.3 day span (800.7 jobs/day)
 → 2008-01-18 16:35:08.807 (first)
 → 2008-04-15 00:20:24.874 (last)
Files used: 42443 total, 31432 written, 11803 read

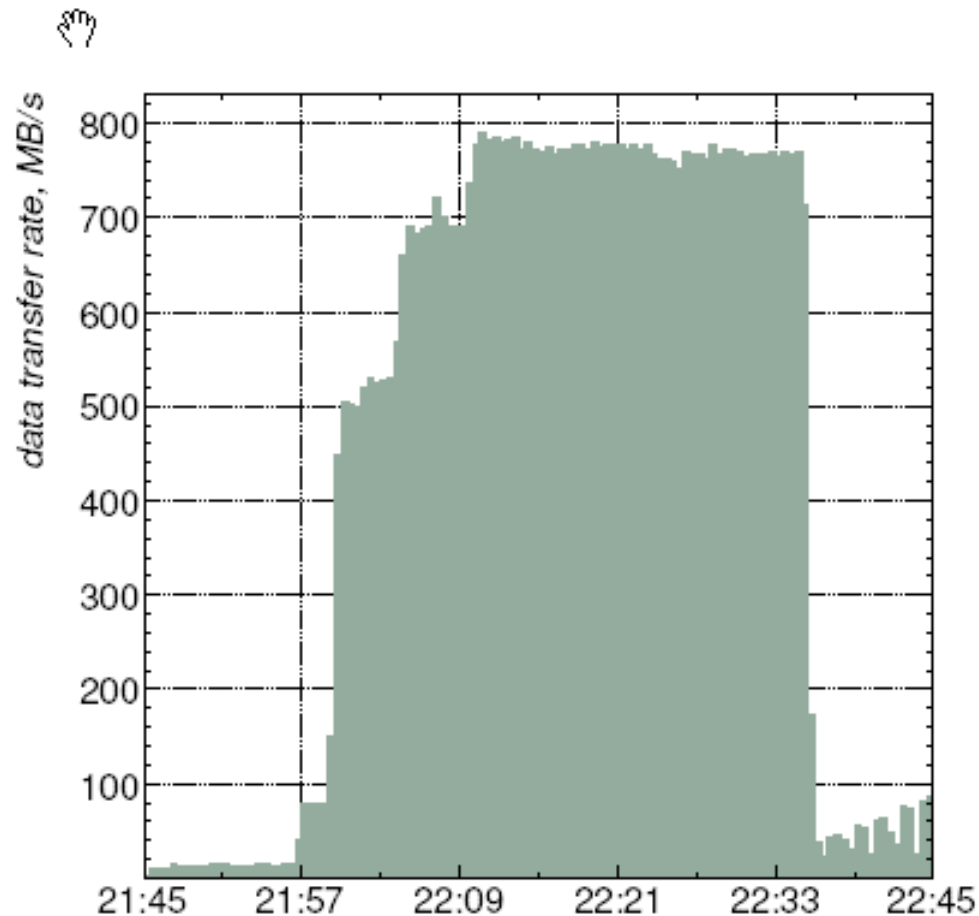


- Most prolific writer
- Writing ntuples
- Reading ntuples



D Ambrose

System testing



A Varganov

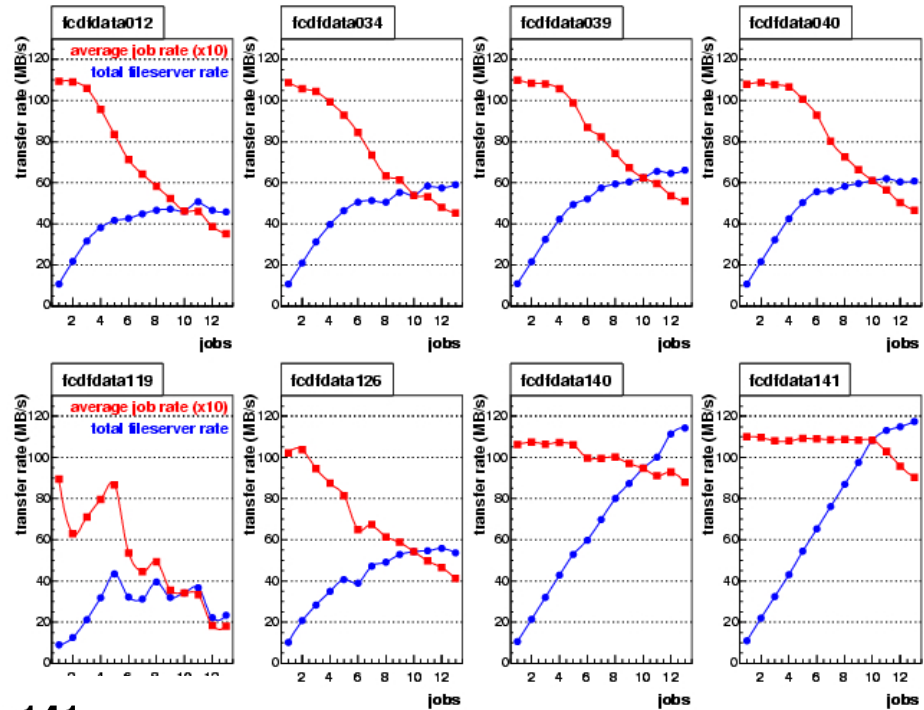
Fileserver read performance

- By server
- Agregate rate

PNFS database performance testing

- Initial results "interesting"
- More work needed to understand the results

Various file servers

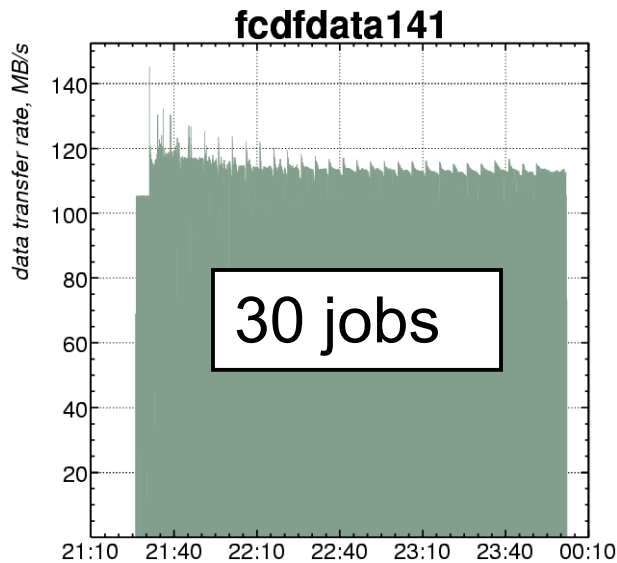


120 MB/s

0 MB/s

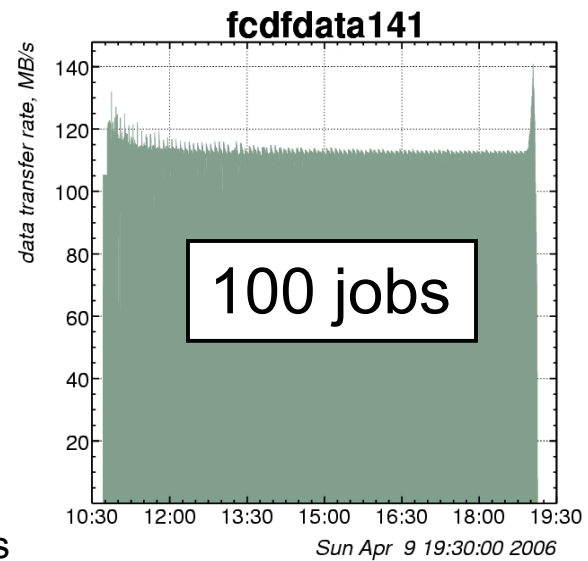
120 MB/s

0 MB/s



D Ambrose

A Varganov



Plans/Conclusions

- Finish User use case profiles in 1-2 weeks (including interviews)
- Finish hardware testing 1-2 weeks
 - Including borrowed CMS hardware
 - Summarize results
- Plan for first formal preproduction readiness review week of 15-May