SAR Workshop Goals

- DØ Grid Update (Status of SAM-Grid/JIM & Deployment to Institutions)
- Re-Reconstruction of Generated Monte Carlo
- Re-Reconstruct DST's of Data Without Database Access (UMich)
- Getting McFarm to run on Generic Clusters without Root Access

DØ Grid Update & Deployment

- SAM-Grid and JIM overview (Amber Boehnlein)
- SAM-Grid and JIM Specifics (Gabriele Garzoglio)
- Grid2003 and Trillium Status (Ruth Pordes)
- SAM-Grid Installation Status (Heuhnu Kim)
- SAM-Grid Installation Session (Heuhnu Kim)

Re-Reconstruction

- Re-Reconstruction (Joel Snow)

Running McFarm on Generic Clusters

- McFarm on Generic Clusters (Horst Severini)
- ATLAS DC Production Status (Kaushik De)

Resources & Tools

- Status of New UTA Cluster (Patrick McGuigan)
- McFarm Improvements (Drew Meyer)
- OU/OSU EPSCoR Proposal (Mike Strauss)

Institutional Status Reports

- LTU Status (Dick Greenwood)
- LU Status (Joel Snow)
- OU Status (Horst Severini)
- UTA Status (Jae Yu)

Saturday Morning

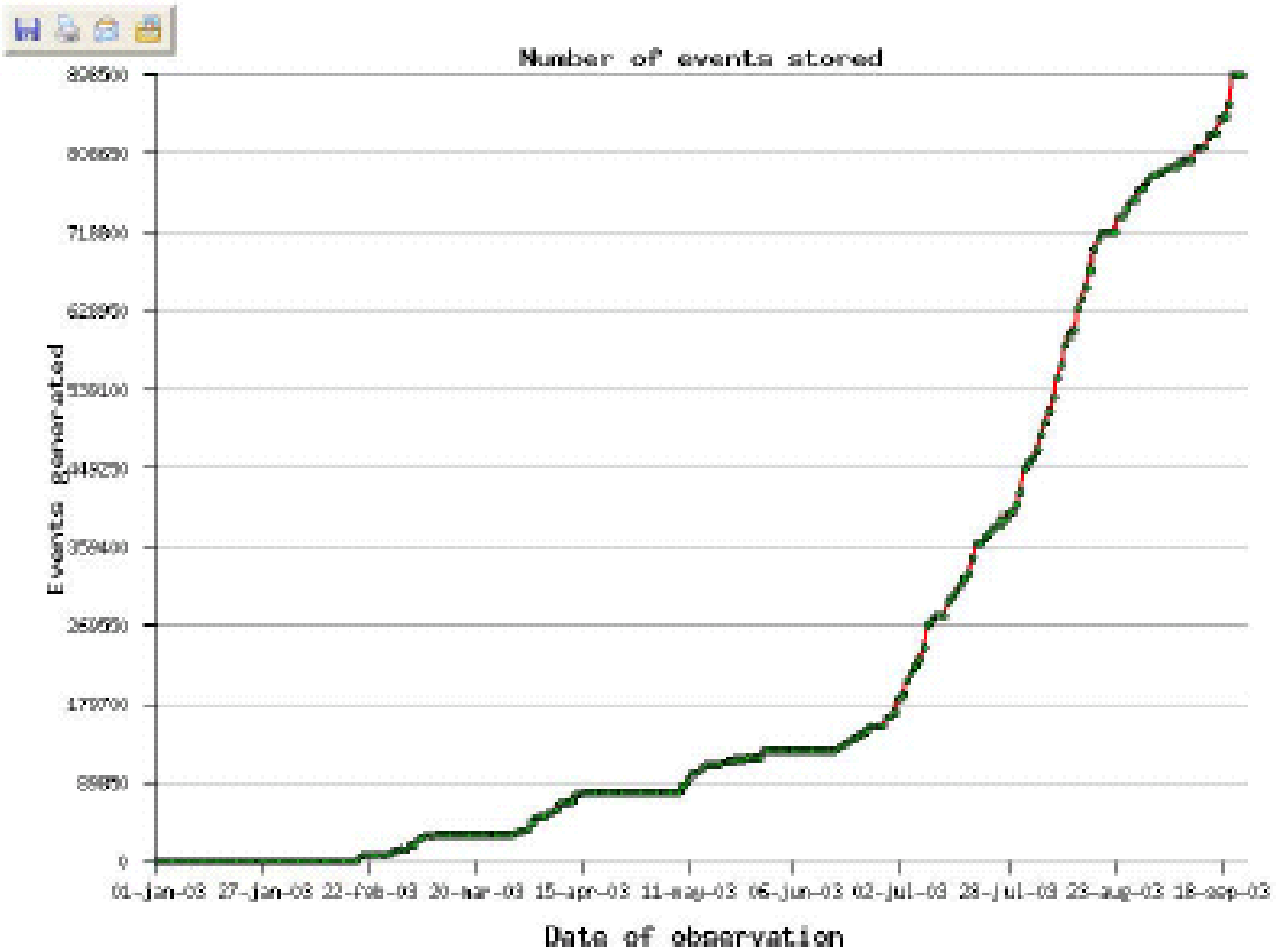
- Discussions on SAR Work, Goals, and Milestones
  - Physics analysis at OU (Phil Gutierrez)
  - SUSY Search at UTA (Andy White)
- Oklahoma Supercomputing Center for Education & Research (Henry Neeman)
- OSCER Tour

Events Generated with McFarm by SAR

	UTA	LU	OU	LTU
• generator:	3030K	190K	252K	101K
• d0gstar:	3030K	190K	252K	101K
• d0sim:	3030K	80K	142K	101K
• d0reco/tmb:	3030K	80K	142K	101K

Southe
Analysis R

Cumulative representation of event storage statistics for the defined period



How do We Increase these Numbers?

- Accomplish goals of this Workshop
- Lets get more institutions involved
  - Pair one of our active institutions with a new one to help one-on-one.
  - Lets have a contest
    - The first successful pair will each get a bottle of good wine. Jae volunteers to define “success”.

Southern Analysis Region

Physics Interests

- OU/LU: electroweak symmetry breaking
  - Higgs searches
  - CKM matrix
    - Flavor mixing, mixing of CP eigenstates, CP violation
  - Rare decays
  - Concentrate on heavy flavors (b and t)
    - B quark: Mixing and CP violation
      - Sin 2β $J/\psi K_s$ vs $\phi K_{s,}$, future: $B_s^0(B_s^0\text{bar}) \rightarrow J/\psi\phi$
      - B_s mixing $B_s^0(B_s^0\text{bar}) \rightarrow D_s l\nu$

Physics Interests (OU con't)

- T quark: mass, σ (t), rare decays, CKM
- $pp_{bar} \rightarrow t + X$ direct measurement of V_{bt}
- Search for $t \rightarrow bH^+$ need lots of MC
  - Direct search: look for excess of τ's

– Run II: single top search

- $pp_{bar} \rightarrow tb(q) + x$

Physics Interests

LTU: b tagging (level 3)

UTA: Higgs searches, extra dimensions, diffraction, stop sbottom searches,

Gluino/squark pair production

Decay channels: gluino $\rightarrow$ q +sq(R)

Final state: q q ME, q q l ME_t, etc.

Action items

- Pairing: (contact partner by next video meeting)
  - KSU and UTA
    - Setting up SAM, 20 linux systems (10x120GB disk)
  - KU and OU
    - 6 linux systems with RAID and SAM
  - Sao Paulo and LTU
  - Mexico and LU
    - 30 cpu's (640 GB RAID)

Action items (con't)

- OSCER (SAM/Grid)
  - Submit job to cluster (OUHEP)
  - Need storage on cluster (1GB per node)
- Adaptation of McFarm to generic cluster
  - Writeup on ssh emulation
  - Scope modular work packages
- SAM/Grid interface to McFarm (job manager) [SC2003]
  - On one dedicated cluster
  - Merging output files
- Standard Monitoring Tools (meetings)
  - How to access tools from Grid

Action items (con't)

- Try Roundup as SAM/Grid issue tracker
- Reprocessing script from McRunjob
- Fix storage holes in SAM
- Next meeting at LTU

Workshop Statistics

- Total number of participants: 32; talks: 20

In person at OU:		VRVS/teleconf:	Total
OU:	6	2	8
FNAL:	2	2	4
LTU:	2	1	3
KSU:	2		2
KU:	1		1
LU:	1		1
UTA:	4	2	6
Brazil:		6	6
Ole Miss:		1	1