



MC MetaData

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Outline



- CDF DH Goals
- The CDF DH Trident: SAM/JIM/dCAF
- What can we do now?
- What can we do by the end of 2003? JIM project
- What can we do in the future? SAM/Grid Fusion
- What can other institutes do?

CDF DH Goals



Ofsite Computing

MC Production

User Metadata

access

Parallel Analysis

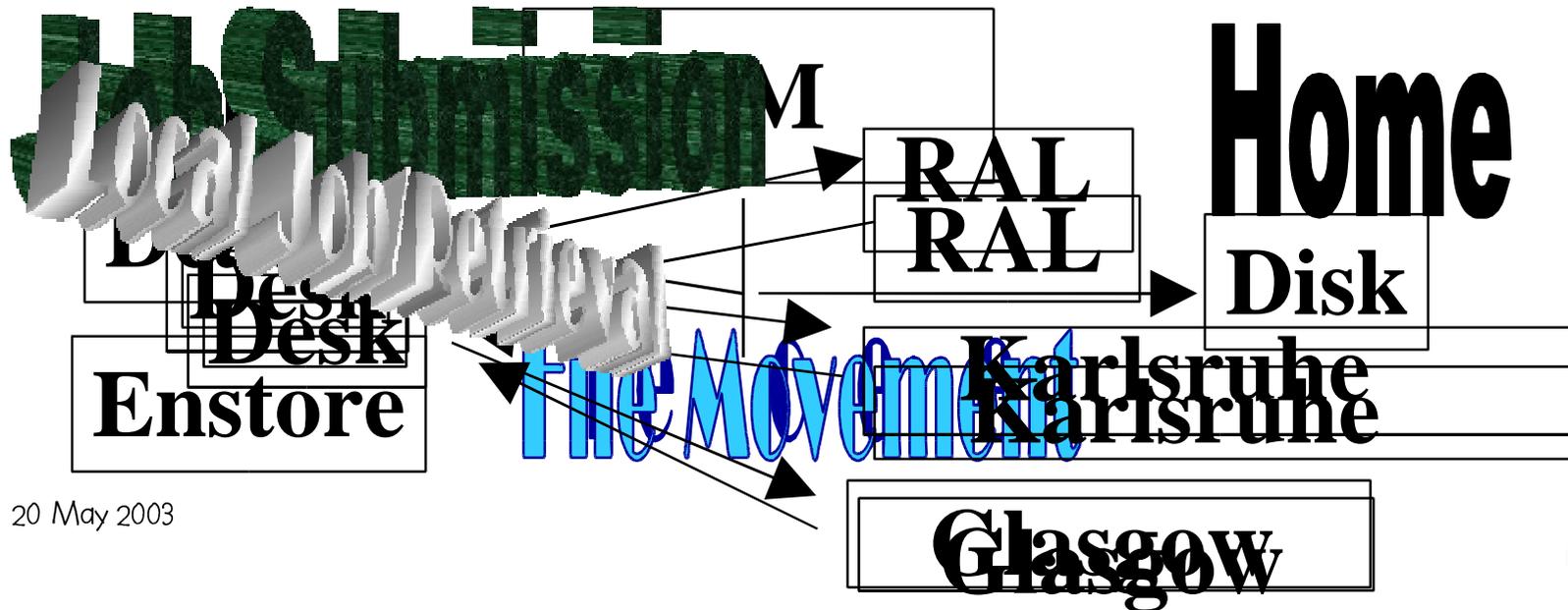
Uniform access to
data: tape and disk



SAM: Data Catalog

JIM: Global Batch Job Manager

dCAF: Local Batch system





Examples Now



- 5 pc's with 20-30 Gig each make a 100 G cache. Can debug some datasets, accessing any (including raw data) up to keeping 100 files around. Desktops at FNAL; INFN
- Farm of PC's (10-20 at Oxford, Karlsruhe) with TB of disk nfs mounted, pc's use NAT to access FNAL, loading datasets and running from Dcache.



CDF Goals Now: SAM/dCaf/JIM

1. To run like the SC2002 Demo
2. Have the firewall problem overcome (dCAF problem)
3. To run physics analysis
4. To run production with storage to tape at final
5. To run stripping with storage to tape at final
6. To run Monte Carlo with storage to tape at final

Frank and Stefano:162345

JIM Deployment

Station	Uni	Items	Cpu	Disk	Admin	Share	Date
Oxford	Ox	1-6	20	7TB	Stonjek		5/31
Scotgrid2	Gla	1-6	128	7TB	BurgonLyon	20%	5/31
Glasgow	Gla	1-6	28	*	BurgonLyon	All	5/31
Sam	Fnal	1-6	60	2TB	St.Denis	Most	5/31
TriesteCAF	Infu	1-6	60	2TB	Belforte	little	12/31
Toronto	Tor				Tafirout		5/31
Fzkka	Karls				Kerzel	All	5/31
Knu	Kor	1,6	12		Oh		
Ttu	Tt		8	3TB	Sill		5/31
Ucsd	Ucsd	1,6,3	60x. 5	1TB	Rahatlou, fkw	All	T/31

20 May 2003



Short Range Milestones



JIM production at limited sites	6/1/03
AC++ on CAF (After Summer Conference)	9/1/03
MC Storage with AC++/SAM: demonstration	6/1/03
MC Production with AC++/SAM	10/1/03
JIM production at sites wanting JIM	10/1/03
CDF using SAM as basic DH system	10/1/03

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Conclusions



- SAM is a significantly better product with cataloguing that allows private datasets to be made, describe how they were made and to be exchanged
- JIM will allow CAF-GUI like submission to all CDF institutes willing to participate
- MC storage by October
- Expansion to Grid and Tools Common with LHC will make the transition technically easier