

SAMGrid

Subprojects: Status, Dates, Drivers



Subproject	Status	Start/End (Length)	People	Driver
Autodestination	Done	7/04 – 11/04 @ 20%	S. White	CDF/D0 design request
Monitoring & Information Server	Done	6/04 – 8/04	Veseli, Lyon, Leslie	Minimize op/dep loads; Continued stable operation
MIS Instrumentation & Application	In progress	(2 month est)	Veseli, Lyon	Minimize op/dep loads; Continued stable operation
MC/Farms Request	Not started	(3 weeks est)	LoebelCarpenter, S. White	CDF/D0 design request
JIM Merging	Done	3 weeks	Baranovski	D0 ReprocII
Patriot File Access	Done	2 weeks CDF few days D0	St Denis, Veseli	Patriot File Access
JIM Developments for D0 ReprocII	In progress	9/04- 3/05	Garzoglio, UTA students	D0 ReprocII

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Subproject	Status	Start/End (Length)	People	Driver
V6 C++ API Development	Done	1 month	Veseli	Minimize op/dep loads; CDF design requests
Station-SRM Integration	On hold – prototype completed		Baranovski	CDF request for prestaging using dcache
V6 Dbsserver Deployment	In progress	12/04 - ?	LoebelCarpenter, S. White	CDF/D0 design requests
V6 Station Testing for D0	On hold	Some work in 9/04	Baranovski, Lyon	Prerequisite for V6 Dbsserver deploy at D0
Prep for SQL Builder & enth	Done	1 week	LoebelCarpenter	Prerequisite for SQLBuilder/enth
SQL Builder	Not started		Herber	Minimize op/dep loads
Enth Dist Dimensions	In progress	12/03 – 5/05	SBIR II	Grid interoperability

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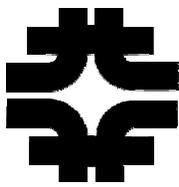


Subproject	Status	Start/End (Length)	People	Driver
CDF Integration Testing	In progress	11/04 - ?	Genser, Baranovski, Veseli	Prerequisite for V6 Dbserver deployment at CDF
Issue Tracker	Ready for deployment	1 week est	Nicholls, Merritt	Improved project management
CDF Online File Declaration	In progress	1/05 – 3/05	Kreymer	Minimize op/dep loads
CDF JIM Deployment for MC	In progress	1/05 – 6/05	Bartsch	Production use of SAM for MC
Packaging /Configuration	In progress	1/05 – 7/05	Sill	Minimize op/dep loads; Timely deployments
Station Evaluation and Enhancements	In progress	1/05 – ?	Baranovski, Mandrighenko	CDF/D0 design requests; Grid interoperability
Maintenance	Ongoing	Ongoing	All	

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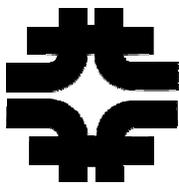


Subproject	Status	Start/End (Length)	People	Driver
RCP to SAM parameters	Not started	Not known		CDF design request
Valid Data Groups (Process Bookkeeping)	Not started	4-5 weeks est		CDF/D0 design request
Grid Interoperability	Not started*	Not known		Use of OSG/LCG/FermiGrid
JIM Job Brokering	Not started	Not known		User analysis on Grid; Load balancing on local clusters
JIM for Analysis	Not started	Not known		User analysis on Grid
Enth Integration	Not started	Not known		Part of SBIR
Test Harness Usage / Improvements	Not started	Not known		Continued stable operation; Minimize op/dep load
MISWEB Enhancements	Not started	Not known		CDF design request



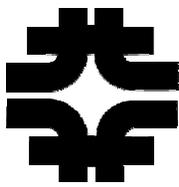
Effort Profile – As Allocated

- Team allocation (in flux: I will list snapshot in last quarter of '04)
Fermilab CD staff assigned to project
 - 100%: Baranovski, Garzoglio, Loebel Carpenter, Merritt, Veseli
 - 50%: Herber, Lyon, S. White
 - (Sum 6.5 FTE)
 - 2 signed reqs in hiring process: 40095, 40112Project contributors from outside institutions or funds
 - 100%: St. Denis (U Glas), Balan/Rajendra (PPDG/UTA)
 - Part-time: Leslie (Oxford)
 - (Sum 3.0 FTE)
- Deployment & Operations by Experiment
 - CDF: Bartsch (1.0), Genser(1.0), Kreymer(0.5), Sill (1.0) + Shifts (~0.5 equiv)
 - D0: Illingworth(0.2), Russo(0.2) + Shifts (~0.7 equiv) + ReprocII (~2.0 equiv)
 - MINOS: Buckley-Geer (0.3 – 0.4)
 - (Sum ~7.5 FTE)



Effort Profile – As Reported

- FTEs/month on SAMGrid development
Avg for Oct-Jan effort reports: 2.75 (+ 0.7 FTE UTA students)
- FTEs/month on SAMGrid deployment
Avg for Oct-Jan effort reports: 2.02 (+ 1.4 FTE UTA students; + 2-3 FTE from D0 ReprocII)
- FTEs/month on SAMGrid operations
[Team] Avg for Oct-Jan effort reports: 0.8
[CDF] 0.7/0.6/0.25/0.45 + effort not reported to SAMGrid
[D0] 0.2/0.0/0.2/0.3 + 0.7 from shifters

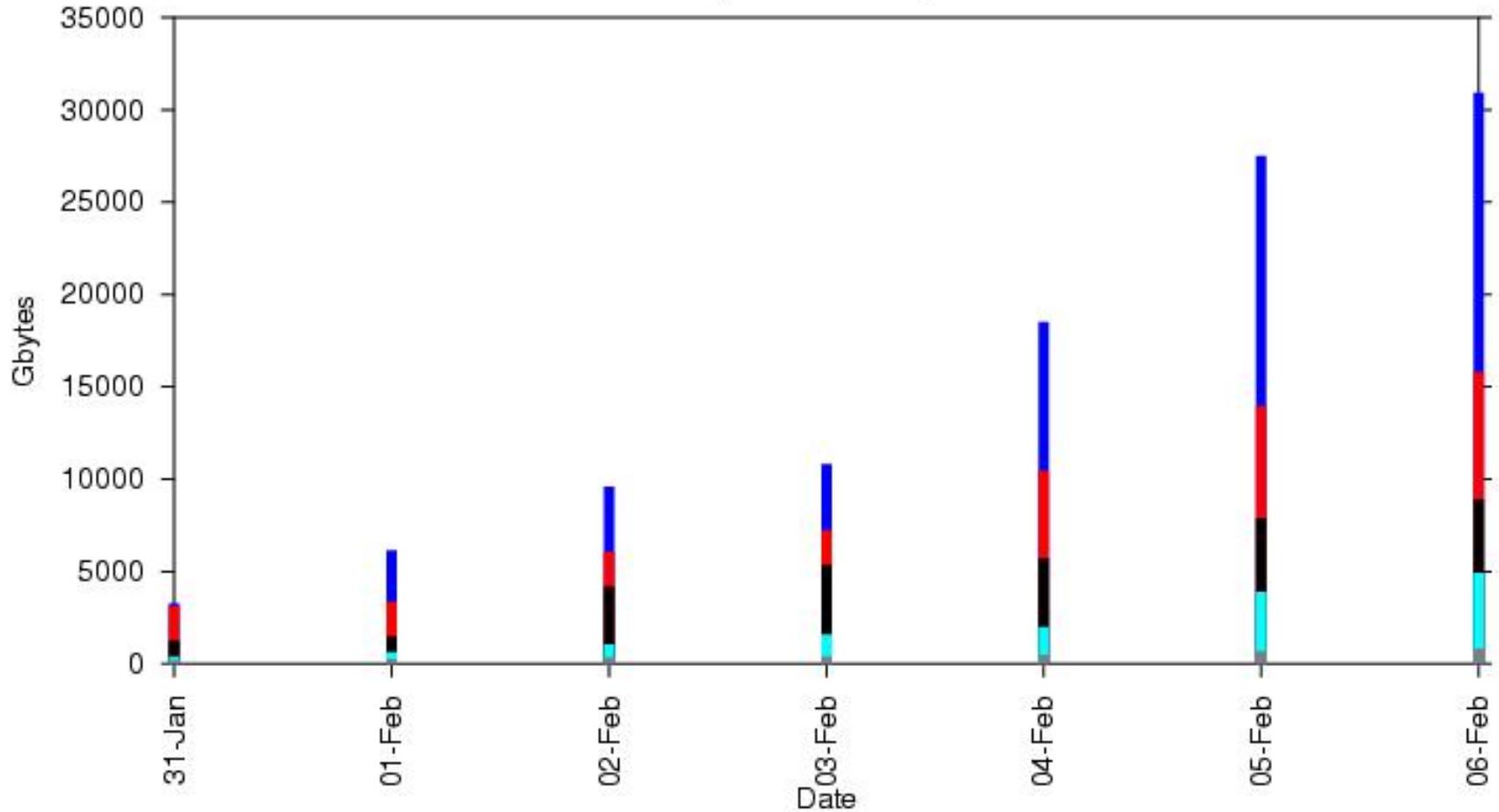


Risks

- Largest technical risk is in the delivery of an interoperable solution with OSG and LCG. Scalability and stability of the externally supplied middleware is a risk; schedule and interfaces for the externally supplied middleware are not necessarily known at this point.
- Next largest technical risk is the schedule risk due to the range and variety of issues encountered in remote SAMGrid deployments on facilities over which the project has no control of the configuration, security requirements, or quality of operational and deployment support.
- Nontechnical risk is the level and stability of commitment from stakeholders.



Integrated Gbytes Consumed per Day on All Stations
Week ending 07-Feb-2005
(CDF Production)

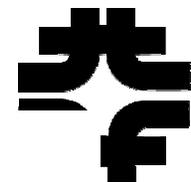


DataTier
cdf-sam
cdf-fzkka

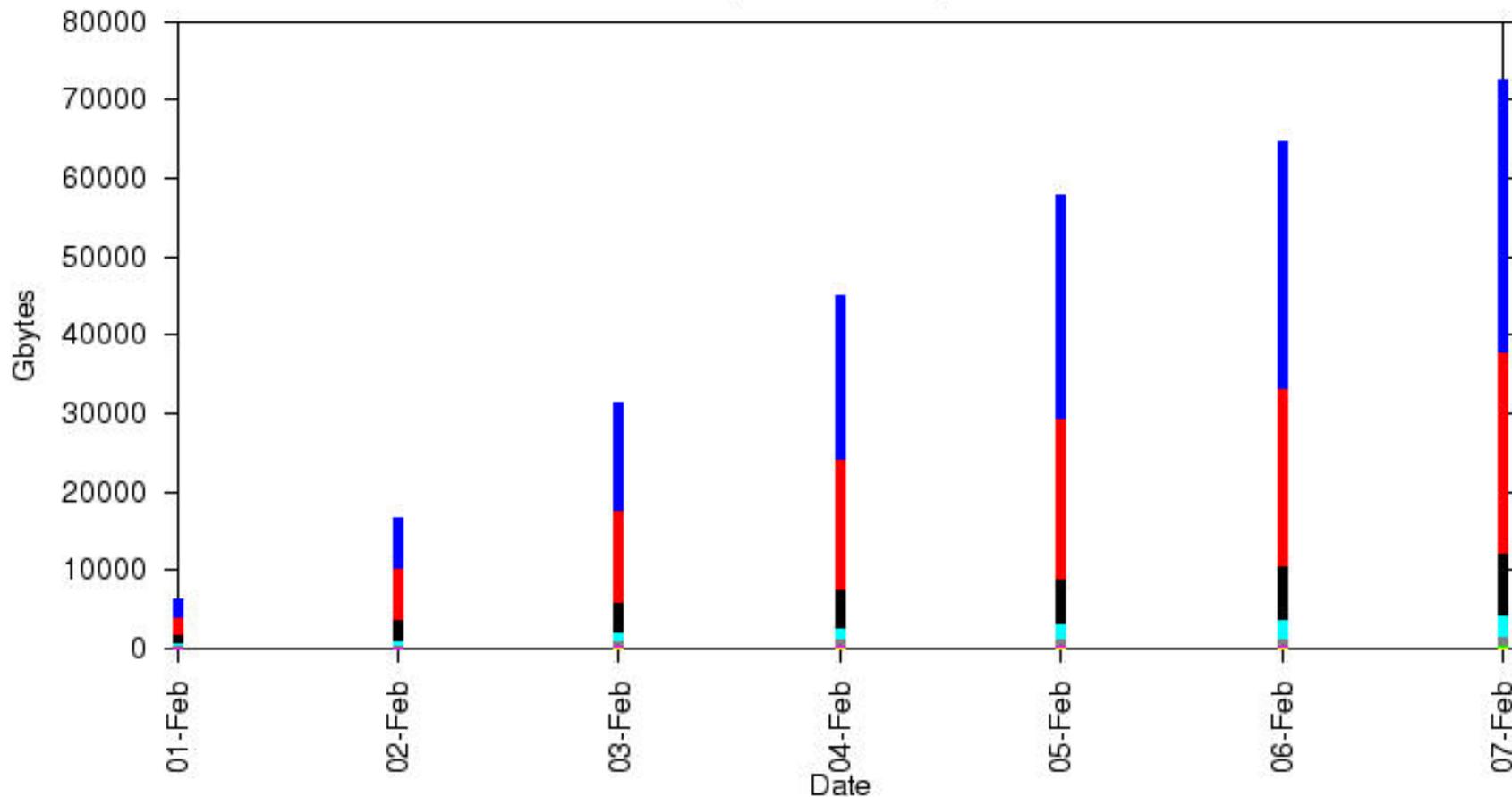
cdf-cnaf
cdf-rutgers

cdf-farm1
cdf-ucl

cdf-stonjek
cdf-ttu-phys



Integrated Gbytes Consumed per Day on All Stations
Week ending 08-Feb-2005
(D0 Production)



DataTier
fnal-cabsrv1
fnal-cabsrv2
westgrid-ubc

fnal-farm
clued0
d0ppdg-wisconsin-2

uta-rac
other

