

# Status Report for February 15, 2009

[Previous Month](#) [Next Month](#)

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## Summary of progress

Work activity; whether it reached associated milestones.

### NCSA

#### Bill (submitted on 2/16/2009)

- Automated build system is much more mature
  - ◆ Trunk build is being tested properly (which in this case means that the build still fails for some packages)
  - ◆ Automatic incremental build of trunk on checkins, delayed by 1/2 hour after last checkin
- Working on security document for PDR (finished any day now ...)
- Security support -- installed one-time-password (OTP) for admin access to more LSST infrastructure machines at NCSA
- Worked on new release of VMs with LSST stack pre-installed, for download by developers
  - ◆ Ray will actually install stack, and then I will release the VM images for download

#### Chris (submitted on 2/xx/2009)

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#### David (submitted on 2/24/2009)

- Working with Jeff and Suzy on DC3a project plan
- Downloaded template data from CFHT Deep survey for DC3a
- Created directory area and structure for DC3a test data
- Worked with Steven Lo of IPAC over network latency issues for integration week
- Maintaining trac, svn, cluster (ongoing)

#### Greg (submitted on 2/23/2009)

- Transition of pex\_harness to new middleware completed.
- Changes for support of localLogMode in the harness completed; ticket 343 ready for review.
- Updated/cleaned up examples within pex\_harness, adding a "template" example that can serve as a starting point for testing a single Stage in a simple manner within a Pipeline.
- Adding doxygen documentation for Slice/Pipeline? as part of comemnts within 343 review.
- Organizing changes to Clipboard needed for ticket 222; nearly complete.
- Some development completed on a "sliceleaders" topology that may be needed for support of WCS use case.

**Steve (submitted on 2/13/2009)**

- Worked with Greg and Ray on Orchestration Layer design.
- Added the preliminary implementation of Orchestration into SVN. Work continues on this.

**Ray (submitted on 2/18/2009)**

- Worked with Steve on Orchestration Layer design
- Maintained distribution server, tested/updated numerous packages related to #458
- #485: got DC2 pipelines running successfully under the DC3 stack
  - ◆ saw a factor of two improvement in overall performance
- Travel: Science and DM meeting 2/9-10 (UC Davis)
- updated Infrastructure Costing model changes:
  - ◆ worked Kantor, Cribbs, Freemon to integrate internal review changes
  - ◆ working with Becla, Lin on addressing database performance requirements
- progress on tickets:

Task	%Done*	Task Title	Comments
28/39	90%	update distribution server	little bit of clean up left
114/111	75%	orchestration layer design	Worked more with Steve, Greg
84/535	25%	integrate logging and Trace	Just need to finish tests
78/532	25%	PropertySet? Integration into Policy	actual implementation is 80% done

**LSSTC**

**Robyn (submitted on 2/13/2009)**

Note: Only my tasks, not listed on the most recent Project Schedule as 100% completed, are included.

Status	NL	Not Lead
Status	NW	No work done
Id	PM	Project Management Plan
Id	DC	Data Challenge Plan
Id	AP	Applications Plan
Id	MW	Middleware Plan

.Status.	Id	.....Title.....	.....Comment.....
NL NW	PM50	...Update SysML/UML models and prepare Technical Documents	
NL NW	PM51	.....Complete LSST Software Development Plan	Waiting on Review
NL NW	PM51	.....LSST Software Development Plan	
NL NW	PM52	.....LSST Configuration Management Guidelines	

NL NW	PM53	.....LSST Software Quality Assurance Guidelines	
NL NW	PM54	.....LSST Verification and Validation Guidelines	
NL NW	PM60	...Complete DM Inputs to System Level Requirements and Design	
NL NW	PM67	.....Create document templates, recipes, tools for Enterprise Architect output/gen	
NL NW	PM68	...Complete Data Management Reference Design	
NL NW	PM69	.....Clean up DC3 UML Model, Update LSST Reference Design UML Model	
NL NW	PM70	.....Update EA and UML Modeling Conventions Document for Activity Diagrams	
	PM75	...Create draft DM Integration Test Plan	
0%	PM77	.....Generate test cases	Need TestGen? update
NL NW	PM78	Complete PM Control System Updates	
NL NW	PM81	...Publish cost book, do team review	
NL NW	PM85	...Conduct PM Internal Cost Review and updates	
NL NW	PM86	Complete DM Inputs to Risk Management, System Integration, Commissioning, and Operations Plans	
0%	PM87	...Update DMS Integration and Test Plan	
	PM90	...Contribute DM sections to LSST Risk Management, Commissioning, I&T, and Operations Plans	
	DC56	Data Challenge 3 Software Development Plan	
100%	DC57	...DC3 Release Project Plan	
50%	DC58	...DC3 Configuration Management Plan	Need feedback from Gehrig, Baker, Plante
100%	DC59	...DC3 Software Quality Assurance Plan	
	DC60	...DC3 Verification and Validation Plan	
75%		.....DC3a Verification and Validation Plan	Close but some sections missing
0%		.....DC3b Verification and Validation Plan	
100%	MW6	Software Quality Assurance	
100%	MW7	...Acquire SQA Support tools	
100%	MW8	.....Configurable tool to perform Lsst software standards checking	
100%	MW9	.....C++ LSST benchmark test suite packaged	
100%	MW10	.....Benchmark	
	MW11	superfluous - drop from plan	
	MW12	superfluous - drop from plan	
	MW13	superfluous - drop from plan	

100%	MW14	.....Acquire
100%	MW15	.....Coverage Analysis Tool
100%	MW16	.....Benchmark
100%	MW17	.....Release for developer use
100%	MW18	...Refine workflow process to incorporate additional V&V...

## Database Group (submitted on 2/xx/2009)

### K-T (submitted on 2/xx/2009)

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#### Andy H (submitted on 2/xx/2009)

- running GridSQL tests on slac 3-machine testbed

### Serge (submitted on 2/xx/2009)

- helped debug SWIG issues
- helped get stack to build on gcc 4.3
- bug fixes to doxygen builder in sconUtils
- updated MOPS formatter code to work with new exceptions/PropertySet
- began work on updating AP code to work with new exceptions/PropertySet

### Daniel (submitted on 2/13/2009)

- just joined slac (January 28)
- reading up, setting up various accounts
- scidb
  - ◆ working on scidb prototype (udfs)

### Jacek (submitted on 2/13/2009)

- storage estimates, mainly query IO
- database setup scripts improved
- discussed large scale tests
- paperwork/logistics related to hiring (Daniel hired!)
- discussion with slac office of tech transfer re open source licenses for lsst
- removed unused columns for dc3a from db schema
- discussions with database people from ASKAP / radio astronomy
- meetings:
  - ◆ FRS meeting + db related follow ups
  - ◆ telecon with mysql cofounder, discussed mysql future, drizzle
  - ◆ several DataAccWG, DC3, infrastructure
- scidb
  - ◆ telecon with pnnl on open provenance
  - ◆ provided various texts for scidb.org website
  - ◆ working with sciAdvisors on collecting input for scidb.org
  - ◆ met with PNNL dir for Tech Deployment and Outreach

- ◆ connecting with Univ of Utah / geophysics / oil and gas research
  - ◆ connecting with UCSD
  - ◆ steering telecon and vldb demo planning
  - xldb
    - ◆ finalized xldb3 conf room in Lyon, France
  - other potentially relevant
    - ◆ visited pnnl (slac-pnnl seminar)
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## Major Accomplishments

Significant breakthroughs, issues resolved.

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## Objectives for the Next Period

What you expect to accomplish.

### NCSA

- Bill:
  - ◆ Finish security document (finally)
  - ◆ Support DC3a integration as necessary
  - ◆ Push out VM images for download
- Chris:
- David:
  - ◆ Continue downloading DC3a test data for preparation by Andy B
  - ◆ Make sure test data is in one consistent place with documented directory structure
- Steve:
  - ◆ Finalize Orchestration layer framework for DC3a integration week
- Greg:
- Mike:
- Ray:

### LSSTC

- Robyn:
  - ◆ Complete the DC3a Integration Test Plan

- ◆ Ensure misc input needed for Integration Test are available prior to Integration Week.
- ◆ Cajole pipeline developers to implement single slice pipeline test harness for their pipeline.

## Database Group

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# Problems Encountered and Solutions Being Pursued

Budget or schedule variance, technical issues, management issues

- Robyn is nudging the cross-group preparation of the CFHT and simulated LSST datasets for DC3a use.