

Status Report for October 15, 2009

Guide on Reporting Percentage Completed:

For software development tasks,

- use 0% if the solution is still being designed;
- use 25% if the solution's design is completed;
- use 50% if the solution is implemented and tested within the Ticket branch;
- use 75% if the implementation review is complete, the Ticket branch has been merged onto the Trunk branch, and the Ticket is closed.
- use 100% if the affected Trunk packages are tagged and released.

For other tasks, still use these increments, but apply their meaning as best as possible.

Note: Please place an asterisk (*) after the percent if you updated this value in this report.

The "ID" number corresponds to the "Unique ID" column in the Middleware/Infrastructure?/DB project plan, a PDF of which is attached at wiki:DC3bManagement.

Allsman Robyn

Reported 15/Oct/2009

ID	Percent	Task	Comments
MWI710	0%	Coverage Checker Release for developer use: Python	<i>not started</i>
MWI37	0%	Create table of Science Data Analysts	minimal progress
MWI725	75% *	Initial Release Code Standards Check	17 modules checked and forwarded to developers; 3 non-C++; rest waiting on compilable trunk version requisite for Standards Checking
MWI726	0%	Final DC3b Code Standards Check	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

- nudging holders of ancient Tickets to complete and or close them
- reviewing the C++ Coding Standards in light of the infraction reports generated by the Standards checker. Preparing TCT proposal for revision of some Rules due to inconsistency between Rules, developer resistance to 'illogical' rules, etc.
- using the EA Test Case Generator on the DC3 model to generate preliminary DC3b integration test case requirements.

Axelrod Tim

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI683	0%	Defining units	<i>not started</i>
MWI744	0%	Report scalability results	<i>not started</i>
MWI731	0%	DC3b Report	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Baker Bill

Reported 10/13/2009

ID	Percent	Task	Comments
MWI569	10%	Maintain automated testing structure	ongoing; okay
MWI41	75%	(BB) support distributable VMs for new developers	
MWI74	50%	configure test sytem for automated V&V	
MWI637	0%	Automated standards checking script	<i>not started</i>
MWI638	0%	Buildbot to detect ABI changes on trunk	<i>not started</i>
MWI640	25%	Validated policy files	in review
MWI661	0%	Advanced interslice communications support	<i>not started</i>
MWI662	0%	Machine-readable inputs/outputs manifest	<i>not started</i>
MWI707	0%	Automating nightly DC3a run	Ray making bash script

*Percent updated in this report

Comments:

Other Activities

Becla Jacek

Reported 10/15/09

ID	Percent	Task	Comments
MWI680	0%	Updates: source-related tables, Object table	<i>discussions started (Oct 6 and Oct 9 DataAcc telecons)</i>
MWI681	0%	Updates: exposure-related tables	<i>not started</i>
MWI682	0%	Synthetic sources of data	<i>not started</i>
MWI684	25%	Standardizing names	
MWI686	5%	Evaluate hadoopDB	

MWI687	50%*	MySQL: test scalability and architect	
MWI688	100%*	Decide xrootd versus gearman	
MWI689	100%*	Run near neighbor query on lsst10	dbSpatialJoinPerf?
MWI691	0%	Partitioning: design partitioning of MovingObject table	started, see MOPSPartitioning
MWI693	0%	Tools for partitioning data	<i>not started</i>
MWI697	0%	Task manager: design presentation	<i>not started</i>
MWI700	0%	Benchmarking	<i>not started</i>
MWI701	0%	Data Release tools	<i>not started</i>
MWI702	0%	Documentation	<i>not started</i>
MWI160	0%	capturing full SW/HW info	<i>not started</i>
MWI159	0%	demonstrating re-creation of Calibrated Science Images	<i>not started</i>
MWI165	0%	support persistence and retrieval of deep detection products and inputs	<i>not started</i>
MWI465	0%	implement objectId synchronization between data releases (not DC3)	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

- LSST
 - ◆ mysql performance/scalability tests for 1 billion row table, primarily to understand how to deal with the lsst reference catalog
 - ◆ debugging problems with mysql authorization (for buildbot tests), see [?http://bugs.mysql.com/bug.php?id=47843](http://bugs.mysql.com/bug.php?id=47843)
 - ◆ multiple discussions related to scalable architecture
 - ◆ documented sql sub-set to be supported in DC3b [dbScalableArchSQL](#)
 - ◆ organized 3 DataAccWG telecons
- XLDB
 - ◆ wrote draft XLDB report
- SciDB
 - ◆ coordinating input from science about benchmark
 - ◆ coordinating involvement of 3 developers from Persistent Systems (via telecons/emails)
 - ◆ discussions about scidb documentation
 - ◆ met with eBay
 - ◆ two telecons with East Coast VCs
- Others
 - ◆ gave invited talk at [?Los Alamos Computer Science Symposium \(LACSS\) 2009](#) (involved travel to Santa Fe, NM)

Bosch Jim

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI685	5%	Near neighbor query over 2 or 3 nodes	
MWI688	0%	Decide xrootd versus gearman	<i>not started</i>
MWI694	0%	Basic generic query parser in place	<i>not started</i>
MWI695	0%	Demonstrate joining Object table with non-partitioned tables	<i>not started</i>
MWI696	0%	DC3b syntax parser and aggregation	<i>not started</i>
MWI698	0%	Task manager: multiple queries	<i>not started</i>
MWI699	0%	Task manager: interactions with user	<i>not started</i>
MWI701	0%	Data Release tools	<i>not started</i>
MWI702	0%	Documentation	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Cribbs Chris

Reported 10/23/09

ID	Percent	Task	Comments
MWI721	1000%	Update NCSA cluster for Lustre kernel	

*Percent updated in this report

Comments:

Other Activities

Daues Greg

Reported 10/22/09

ID	Percent	Task	Comments
MWI655	50%*	Refactor harness	
MWI656	0%	Pipeline shutdown mechanisms	<i>not started</i>
MWI664	0%	Freeze-drying clipboards: Harness support	<i>not started</i>
MWI106	0%	Work to support communication of general serializable types over MPI	<i>not started</i>
MWI107	0%	Develop mechanisms for identifying/accessing	<i>not started</i>
MWI113	0%	Improving harness exception handling	<i>not started</i>
MWI660	25%	Improve simple, interactive harness execution: infrastructure	
MWI709	25%*	Improve simple, interactive harness execution: interface	
MWI748	0%	Configure cluster for final release	<i>not started</i>

*Percent updated in this report

Comments:

- For MWI660 a large portion of Python thread based code has been merged with the code of MWI655 (for the new stage API) and is now being tested. Updated run/launching scripts are part of this code update, and so I have moved MWI709 off of "not started" to 25%

Other Activities

Dubois-Felsmann Gregory

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI737	0%	Identify hardware platform	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Gehrig David

Reported 10/23/09

ID	Percent	Task	Comments
MWI635	100%*	New ticket workflow	

*Percent updated in this report

Comments:

Other Activities

Hanushevsky Andy

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI165	0%	support persistence and retrieval of deep detection products and inputs	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Krughoff Simon

Reported xx/xx/xx

ID	Percent	Task	Comments
----	---------	------	----------

MWI665	75%	Expose Event API	
MWI228	0%	Event system failover	<i>not started</i>
MWI666	0%	Scripts to monitor for node/pipeline failures	<i>not started</i>
MWI667	0%	Python-based high-level event monitor scripts	<i>not started</i>
MWI658	0%	I/O stage for interactive pipeline launch	<i>not started</i>
0%		life-support services	<i>not started</i>
MWI538	0%	Event Monitor integration	<i>not started</i>
MWI570	0%	Events orchestration layer support	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Laher Russ

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI481	0%	Python	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Lim KT

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI688	0%	Decide xrootd versus gearman	<i>not started</i>
MWI691	0%	Partitioning: design partitioning of MovingObject? table	<i>not started</i>
MWI698	0%	Task manager: multiple queries	<i>not started</i>
MWI699	0%	Task manager: interations with user	<i>not started</i>
MWI702	0%	Documentation	<i>not started</i>
MWI160	0%	capturing full SW/HW info	<i>not started</i>
MWI159	0%	demonstrating re-creation of Calibrated Science Images	<i>not started</i>
MWI165	0%	support persistence and retrieval of deep detection products and inputs	<i>not started</i>
MWI465	0%	implement objectId synchronization between data releases (not DC3)	<i>not started</i>
MWI180	0%	persistence framework refinement	<i>not started</i>
MWI643	0%	Upgrade OutputStage? to register outputs	<i>not started</i>
MWI644	0%	Implement simple, non-Policy retrieval	<i>not started</i>
MWI645	0%	App Class: remove need to declare friend classes	<i>not started</i>

MWI646	0%	App Class: remove intrusiveness of Boost persistence	<i>not started</i>
MWI647	0%	App Class: legacy file-based persistence/retrieval	<i>not started</i>
MWI648	0%	Python pers: investigate efficiency of methods	<i>not started</i>
MWI649	0%	Python pers: define app class interface	<i>not started</i>
MWI650	0%	Implement simple non-Policy persistence	<i>not started</i>
MWI651	0%	Upgrade InputStage?	<i>not started</i>
MWI652	0%	Generic ORM: mapping attributes to columns	<i>not started</i>
MWI653	0%	Generic ORM: collection persistence and retrieval	<i>not started</i>
MWI663	0%	Freeze-drying clipboards: design	<i>not started</i>
MWI669	0%	Determine segment images over a given sky tile	<i>not started</i>
MWI670	0%	LRU cache for raw segment images	<i>not started</i>
MWI671	0%	LRU cache for calibrated science exposures	<i>not started</i>
MWI672	0%	Write/retrieve images to disk/tape	<i>not started</i>
MWI673	0%	Determine, retrieve cutout areas over given sky tile	<i>not started</i>
MWI675	0%	Write to co-add template pixel store on sky tile basis	<i>not started</i>
MWI674	0%	Determine template pixels overlaying given coords	<i>not started</i>
MWI676	0%	Retrieve template pixels	<i>not started</i>
MWI677	0%	Investigate local disk use for postage stamp generation	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Lupton Robert

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI738	0%	Evaluate performance of ported algorithm	<i>not started</i>
MWI740	0%	Determine scope of data	<i>not started</i>
MWI744	0%	Report scalability results	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Monkewitz Serge

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI690	0%	Partitioning: research htm/healpix/stomp/dif	<i>not started</i>

MWI692	0%	Implement generic query partitioner	<i>not started</i>
MWI693	0%	Tools for partitioning data	<i>not started</i>
MWI696	0%	DC3b syntax parser and aggregation	<i>not started</i>
MWI465	0%	implement objectId synchronization between data releases (not DC3)	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Pietrowicz Steve

Reported 10/15/09

ID	Percent	Task	Comments
MWI659	50%	Refactor Orca	in review
MWI665	50% *	Expose Event API	This was incorrectly marked last month. This is pending design review.
MWI228	25% *	Event system failover	
MWI666	0%	Scripts to monitor for node/pipeline failures	<i>not started</i>
MWI667	0%	Python-based high-level event monitor scripts	<i>not started</i>
MWI658	0%	I/O stage for interactive pipeline launch	<i>not started</i>
MWI229	0%	life-support services	<i>not started</i>
MWI538	0%	Event Monitor integration	<i>not started</i>
MWI570	0%	Events orchestration layer support	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

- Working on fixing problems detected by code analysis tool.
- Working on clearing tickets
- Working on solution for standalone data areas for things that need them (like ActiveMQ), so users don't step on each other using a common scratch space.
- Ticket tested fix, and released [#959](#)
- Consulting with Tim and Francesco about ActiveMQ.

Plante Ray

Reported 10/14/09

ID	Percent	Task	Comments
----	---------	------	----------

MWI624	25%	User preferences directory	Implementation is complete. Because I have a few more unittests to add, I cannot yet close this ticket. Completion to 50% expected this week.
MWI625	25%	Support user/server tags	Implementation is complete; a bit more testing is needed. Completion to 50% expected this week.
MWI626	0%	Improve packages installation/declaration	most of this work is already done as part of above work, but I won't finish this off until MWI624, MWI625 are complete
MWI627	25%	Improve EUPS Docs	
MWI628	0%	Meta releases	<i>not started</i>
MWI629	0%	User publishing of packages to server	<i>not started</i>
MWI631	0%	As-built manifests into install directories	<i>not started</i>
MWI632	0%	Make SConsUtils dependency on EUPS optional	<i>not started</i>
MWI633	0%	Upgrade SConsUtils for latest Scons	<i>not started</i>
MWI641	0%	Logging tasks	<i>not started</i>
MWI732	0%	DC3b Production Run	<i>not started</i>
MWI731	0%	DC3b Report	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

- supported Freemon and Cribbs with Infrastructure cost sheet estimates
- worked on sub-contract renewal
- reviewed file management demo plan
- code reviews

Resource_Names

Reported xx/xx/xx

ID	Percent	Task	Comments
Text2	Percent_Complete	Name	

*Percent updated in this report

Comments:

Other Activities

Science Collaboration

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI724	0%	Science Algorithm Verification	<i>not started</i>
MWI730	0%	Science Algorithm Verification	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

TBD

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI739	0%	Perform the initial port	<i>not started</i>
MWI738	0%	Evaluate performance of ported algorithm	<i>not started</i>
MWI742	0%	Run ported algorithm	<i>not started</i>
MWI743	0%	Collect metrics, assess	<i>not started</i>
MWI744	0%	Report scalability results	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Major Accomplishments

Significant breakthroughs, issues resolved.

Objectives for the Next Period

What you expect to accomplish.

NCSA

LSSTC

Database Group

Problems Encountered and Solutions Being Pursued

Budget or schedule variance, technical issues, management issues.

NCSA

LSSTC

Database Group