

Middleware/Infrastructure? Status Report for May 15, 2010

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.

Allsman Robyn

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI827	0%	prototype buildbot script to run pipeline unittest	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Baker Bill

Reported 4/19/10

ID	Percent	Task	Comments
MWI569	20%	Maintain automated testing structure	avg 3-5 hours a week
MWI41	25%	Support distributable VMs for new developers	
MWI74	50%	configure test sytem for automated V&V	
MWI637	25%	Automated standards checking script	have spent about 50 hours on this
MWI638	0%	Buildbot to detect ABI changes on trunk	<i>not started</i>
MWI661	0%	Advanced interslice communications support	<i>not started</i>
MWI662	0%	Machine-readable inputs/outputs manifest	<i>not started</i>
MWI707	25%	Automating nightly DC3b run	have spent about 5 hours so far

*Percent updated in this report

Comments:

Other Activities

Time spent lately (I'm 50%, averaging 20-25 hours per week on LSST):

- `pex_policy` - new features, maintenance, bug fixes - avg 5-8 hours a week for the last few months
- latest big time sink has been developing a web interface for Parasoft -- spent 40-50 hours on it so far, 75% finished
- Maintain buildbot (automated testing infrastructure) - about 3-5 hours a week
- Misc (meetings, email, small tasks) - maybe 3-5 hours per week

Becker Andy

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI838	0%	Chop CFHT data by amp	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Becla Jacek

Reported 05/20/10

ID	Percent	Task	Comments
MWI681	75%	Updates: exposure-related tables	
MWI691	20%	Partitioning: design partitioning of MovingObject? table	
MWI693	75%	Tools for partitioning data	
MWI831	90%*	qserv: MyProxy?	
MWI832	75%*	DB backup and replication	
MWI700	25%	Benchmarking	
MWI160	25%	capturing full SW/HW info	
MWI159	0%	demonstrating re-creation of Calibrated Science Images	<i>not started</i>
MWI165	41%	support persistence and retrieval of deep detection products and inputs	
MWI465	40%	implement objectId synchronization between data releases (not DC3)	

*Percent updated in this report

Comments:

Other Activities

- LSST
 - ◆ dc3b: updates to db scripts for ctrl/orca
 - ◆ dc3b: updates to db schema (sources/object)
 - ◆ dc3b: setup dc3b database
 - ◆ changes to mysql proxy to allow concurrent queries
 - ◆ proposed backup and replication plan, see dbBackupRepl?
 - ◆ discussions about mops architecture
- XLDB4
 - ◆ website design and contents, agenda, dinner location, lots of other logistics
- SciDB
 - ◆ website updates and big migration to a new hosting provider

Daues Greg

Reported 05/20/10

ID	Percent	Task	Comments
MWI656	50%	Pipeline shutdown mechanisms	
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	50%	Improving harness exception handling	
MWI709	50%	Improve simple, interactive harness execution: interface	

*Percent updated in this report

Comments:

- For MWI656, within the context of ticket [#1259](#), added support for the ShutdownThread? using event objects and filtering with runid. This is a crucial addition to prevent shutdown events from unintentionally affecting other running pipelines.
- For MWI113, with respect to tickets 1271/1272, added immediate Clipboard cleanup & deletion after failure stage execution to prevent any further use of that Clipboard.
- Within the context of ticket [#1259](#) added support to pex_harness for a command line option on run scripts to specify a unique log directory. Each worker Pipeline within a workflow/production needs to write to a unique location, and this is now ready and working within tag 3.6.8, having been tested with ctrl_orca.

Other Activities

Freemon Mike

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI849	0%	Prepare LSST10 for primary catalog database	<i>not started</i>

*Percent updated in this report

Other Activities

Comments:

Other Activities

Gehrig David

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI723	25%*	Image file access server ready	
MWI724	25%*	Unify account management procedures - svn mysql linux svn	
MWI722	90%	Prepare LSST2 for iRODS	
MWI848	30%	Prepare LSST1 as web data server / schema browser	
MWI849	0%	Prepare LSST10 for primary catalog database	<i>not started</i>
MWI837	50%*	Download CFHT Data	

*Percent updated in this report

Comments:

Other Activities

- Updated MWI project plan reflecting design review scoping changes

Hanushevsky Andy

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI165	41%	support persistence and retrieval of deep detection products and inputs	

*Percent updated in this report

Comments:

Other Activities

Lim KT

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI691	20%	Partitioning: design partitioning of MovingObject? table	
MWI160	25%	capturing full SW/HW info	
MWI159	0%	demonstrating re-creation of Calibrated Science Images	<i>not started</i>
MWI165	41%	support persistence and retrieval of deep detection products and inputs	
MWI465	40%	implement objectId synchronization between data releases (not DC3)	
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>
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

Monkewitz Serge

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI690	25%	Partitioning: research htm/healpix/stomp/dif	
MWI692	0%	Implement generic query partitioner	<i>not started</i>
MWI693	75%	Tools for partitioning data	
MWI696	0%	DC3b syntax parser and aggregation	<i>not started</i>
MWI465	40%	implement objectId synchronization between data releases (not DC3)	
MWI669	100%	Determine segment images over a given sky tile	
?	75%	Spatial support for qserv and corresponding MySQL UDFs	

*Percent updated in this report

Comments:

Other Activities

Pietrowicz Steve

Reported 05/20/10

ID	Percent	Task	Comments
MWI658	0%	I/O stage for interactive pipeline launch	<i>not started</i>
MWI659	50%	Refactor Orca	Released and being used in testing. Working on Abe Plug-ins. Time Spent: 2 weeks
MWI538	0%	Event Monitor integration	<i>not started</i>
MWI589	0%	Pipeline Fault Tolerance	<i>not started</i>
MWI570	50%*	Events orchestration layer support	Implemented in Orca and in pex_harness. Time Spent: 2 weeks

*Percent updated in this report

Comments:

Other Activities

- Tagged and released several version of ctrl_orca and ctrl_events.
- Worked with Plante and Daues for orca/pex_harness updates.
- Helped Rallsman with afw infinite loop issue.
- Helped Rallsman come up to speed with how to use Orca.
- Created trac pages for debugging running processes with no debugger attached and how to use Orca.

Plante Ray

Reported 05/15/10

ID	Percent	Task	Comments
MWI624	75%	User preferences directory	
MWI625	75%	Support user/server tags	
MWI626	0%	Improve packages installation/declaration	<i>not started</i>
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	50%	Logging tasks	initial pattern for logging established; some debugging/refinement needed
MWI840	25%	Update and test stack for latest product versions	
MWI841	75%	Job scheduling via JobOffice/Blackboard?	still needs data butler integration to support source association. Time spent: 2 weeks development, 1 week

			testing/integration
MWI670	25%	LRU cache for raw segment images	
MWI671	25%	LRU cache for calibrated science exposures	
MWI672	25%	Write/retrieve images to disk/tape	
MWI725	100%	Define directory structure	Time spent: ~3 days
MWI848	0%	Prepare LSST1 as web data server / schema browser	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

- IVOA Interoperability conference: May 13-21
- Consulted with Pietrowicz and Daues on completion of orca/harness updates
- Integration testing: testing and debug joboffice middleware for actual pipelines
- package maintenance on cluster and Abe.

Wang Daniel

Reported 04/20/10

ID	Percent	Task	Comments
MWI165	41%	support persistence and retrieval of deep detection products and inputs	

*Percent updated in this report

Comments:

Other Activities

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