

Previous month Apps - MW/Inf

Current month Apps - Mgt/SE

Next month Apps - MW/Inf - Mgt/SE

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.

Middleware/Infrastructure? Status Report for July 15, 2010

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

Axelrod Tim

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI834	100%	Select CHFT Test Data	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Baker Bill

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI569	20%	Maintain automated testing structure	
MWI41	25%	Support distributable VMs for new developers	
MWI852	50%	Web interface to Parasoft	
MWI74	50%	configure test system for automated V&V	
MWI637	25%	Automated standards checking script	
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	

*Percent updated in this report

Comments:

Other Activities

Becker Andy

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI838	1000%	Chop CFHT data by amp	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Becla Jacek

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI681	0%	Updates: exposure-related tables	<i>not started</i>
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	

Other Activities

MWI160	25%	capturing full SW/HW info	
MWI159	0%	demonstrating re-creation of Calibrated Science Images	<i>not started</i>
MWI165	42%	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

Bosch Jim

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI685	5%	Near neighbor query over 2 or 3 nodes	
MWI696	0%	DC3b syntax parser and aggregation	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Daues Greg

Reported 07/23/2010

ID	Percent	Task	Comments
MWI656	50%	Pipeline shutdown mechanisms	
MWI853	0%	Adding run filter for shutdown events	<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>
MWI709	25%	Improve simple, interactive harness execution: interface	

*Percent updated in this report

Comments:

- Assisted in debugging of middleware issues/errors of Abe CFHTLS production runs
- Investigated LSST's 20 TB space allocation on gpfs-wan in San Diego. Optimized transfers of production run outputs from Abe to gpfs-wan. Products currently can be transfer at ~287 MB/s in tests (hence 361 GB of outputs in 21 minutes).
- Initiated work on optimizing other relevant transfer routes (Abe - MSS, LSST cluster - MSS)
- Investigated alternative Teragrid platforms (alternative to Abe) initially for PT1, and with an eye for PT2.

Freemon Mike

Reported 07/22/2010

ID	Percent	Task	Comments
MWI856	100%	Teragrid Resources Ready	
MWI849	100%	Prepare LSST10 for primary catalog database	

*Percent updated in this report

Comments:

Other Activities

Gehrig David

Reported 07/22/10

ID	Percent	Task	Comments
MWI723	75%	Image file access server ready	
MWI848	100%	Prepare LSST1 as web data server / schema browser	
MWI849	100%	Prepare LSST10 for primary catalog database	
MWI859	75%	Web Data server ready	
MWI834	100%	Select CHFT Test Data	
MWI837	100%	Download CFHT Data	

*Percent updated in this report

- moving and verifying data to Abe and mass store
- upgraded LSST cluster nodes 5-9 to 16 GB memory
- moved CTIO data to lsst1 for HTTP cross-project access
- created internal user registry page for LSST cluster
- created template notification emails for new accounts

Comments:

Other Activities

Hanushevsky Andy

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI165	42%	support persistence and retrieval of deep detection products and inputs	

*Percent updated in this report

Comments:

Other Activities

Jagatheesan Arun

Reported xx/xx/xx

ID	Percent	Task	Comments
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*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	42%	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	Being handled by Daniel Wang
MWI854	100%	Spatial support for qserv and corresponding MySQL UDFs	
MWI465	40%	implement objectId synchronization between data releases (not DC3)	
MWI669	0%	Determine segment images over a given sky tile	Complete for PT1, but will need to be revisited if PT2 uses to a different sky-tiling scheme

*Percent updated in this report

Comments:

Other Activities

Pietrowicz Steve

Reported 07/22/10

ID	Percent	Task	Comments
MWI658	0%	I/O stage for interactive pipeline launch	<i>not started</i>
MWI659	75%	Refactor Orca	
MWI538	0%	Event Monitor integration	<i>not started</i>
MWI589	0%	Pipeline Fault Tolerance	<i>not started</i>
MWI570	75%	Events orchestration layer support	

*Percent updated in this report

Comments:

The majority of my time has been spent supporting the Abe runs for PT1. This includes several bug fixes to ctrl_events for and ctrl_provenance, a requested enhancement to Orca, and several utilities to observe message traffic during runs.

Other Activities

Plante Ray

Reported 07/23/10

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	0%	Logging tasks	<i>not started</i>
MWI840	25%	Update and test stack for latest product versions	
MWI670	50%*	LRU cache for raw segment images	installed cache manager on lsst1; some changes expected to adapt to LSST
MWI671	50%*	LRU cache for calibrated science exposures	<i>see previous</i>
MWI672	50%*	Write/retrieve images to disk/tape	
MWI842	75%*	Develop and implement file bundling for Mass Store	I have script that I have been using to back up CFHTLS data; configuration files needed for output products
MWI855	75%	JobOffice? Middleware, testing and debug	
MWI848	75%	Prepare LSST1 as web data server / schema browser	<i>see MWI670</i>

*Percent updated in this report

Comments:

- Note that I have reduced to 50% on LSST

Other Activities

- Travel:
 - ◆ SPIE Meeting, San Diego: June 27-July2
 - ◆ Vacation: July 13-20

Van Dyk Schuyler

Reported xx/xx/xx

ID	Percent	Task	Comments
MWI722	30%	Prepare LSST2 for iRODS	

*Percent updated in this report

Comments:

Other Activities

Wang Daniel

Reported 07/23/10

ID	Percent	Task	Comments
MWI165	43%*	support persistence and retrieval of deep detection products and inputs	

*Percent updated in this report

Comments:

- qserv-related:
 - ◆ Minor code re-organization and commenting.
 - ◆ Refactor sql substitution code
 - ◆ Update sample config files for xrootd and qserv frontend
 - ◆ Fix bug in query success detection, fix bad swig declaration.
 - ◆ Check for bad XrdPosixXrootd:close() return code.
- LIMIT support
 - ◆ Add test cases for LIMIT clause
 - ◆ Add parser support for LIMIT and ORDER BY
- Query squashing:
 - ◆ Deny non-whitelisted db access and squash at before dispatch.
 - ◆ Add plumbing to feedback more meaningful errors through mysqlproxy.
 - ◆ Squash result-table retrieval by mysqlproxy after error is detected.
 - ◆ Implement result size overload checking
 - ◆ Add unlink() calls to throw away results that are too big or erroneous.
- mysqlproxy
 - ◆ Fix to reset more state between queries.
- qserv-worker:
 - ◆ Centralize configuration code, add minimal configuration validation.
 - ◆ Switch to table-only dumping rather than full db.
 - ◆ Some code cleanup and refactoring.
 - ◆ Track query threads so that they can be poisoned
 - ◆ Implement rem/unlink to allow result/query squashing

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