

Previous month Apps - MW/Inf - Mgt/SE

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 August 15, 2010

Allsman Robyn

Reported xx/xx/xx

| ID | Percent | Task | Comments |
|--------|---------|----------------------------------------------------|----------|
| MWI827 | 100%* | prototype buildbot script to run pipeline unittest | |

*Percent updated in this report

Comments:

- There was no need to modify the DM buildbot infrastructure in order to run either the individual pipelines' unittests or the PT1 production pipeline unittest (an integration test of the individual pipelines); all that was needed was to add the package 'datarel' to buildbot's task list. The actual test was written by K-T & RHL. On request, Bill Baker added the package to the buildbot task list.
- Last week I was also designated as Bill Baker's replacement on DM buildbot development.
- As described in the Apps Monthly report, I am currently working on developing a new style of buildbot test which checks consistency against the development branch instead of the released branch. This job does involve modification to the DM buildbot implementation.

Other Activities

Baker Bill

Reported 8/21/10

| ID | Percent | Task | Comments |
|--------|---------|----------------------------------------------|--------------------------------------------|
| MWI569 | 20% * | Maintain automated testing structure | Handing off to Robyn Allsman |
| MWI41 | 25% | Support distributable VMs for new developers | |
| MWI852 | 50% | Web interface to Parasoft | Spinning back up after long absence |
| 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 | Handed off to Greg Daues |
| MWI662 | 0% | Machine-readable inputs/outputs manifest | <i>not started</i> |
| MWI707 | 25% * | Automating nightly DC3b run | Handed off to Robyn Allsman |

*Percent updated in this report

Comments:

Other Activities

Becla Jacek

Reported 08/23/10

| 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 | |
| MWI160 | 25% | capturing full SW/HW info | |
| MWI159 | 0% | demonstrating re-creation of Calibrated Science Images | <i>not started</i> |
| MWI165 | 94% | 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

- qserv - plan update
- scalability tests plan - matrix
- prepared for SSD tests at SDSC
- reddnet servers and db servers at slac - paperwork and coordination

- AHM
- adass abstract
- xldb
 - ◆ reaching out, arranging speakers, sponsors, memorabilia, and others
- scidb
 - ◆ organizing 1st community meeting

Bosch Jim

Reported xx/xx/xx

| ID | Percent | Task | Comments |
|--------|---------|---------------------------------------|----------|
| MWI685 | 5% | Near neighbor query over 2 or 3 nodes | |

*Percent updated in this report

Comments:

Other Activities

Daues Greg

Reported 08/24/10

| 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:

- Worked in ticket 1398 to improve harness logging with respect to 1) formatting messages properly for event monitor system and 2) improve error detection reporting for faster traceback at middleware level.
- Initiated running productions on Abe for middleware testing
- Investigated TACC (Texas Advanced Computing Center) Ranger system as a backup computing system for PT1/2

Reported xx/xx/xx

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

*Percent updated in this report

Other Activities

Comments:

Other Activities

Gehrig David

Reported xx/xx/xx

| ID | Percent | Task | Comments |
|--------|---------|------------------------------------------------------------------------------------------------------|--------------------|
| MWI47 | 0% | build warnings if unittest doesn't satisfy DC3 coverage requirement | <i>not started</i> |
| MWI52 | 0% | any failures cause automatic 'Failed Nightly Build' ticket at high priority | <i>not started</i> |
| MWI54 | 0% | any failure causes automatic 'Failed Production sanity check' ticket at high priority | <i>not started</i> |
| MWI55 | 0% | auxiliary automatic notification to highest authority on failure (separate from ticket notification) | <i>not started</i> |
| MWI57 | 0% | Standards: specify requirement to version and archive build's provenance; | <i>not started</i> |
| MWI58 | 0% | Configuration Management: define procedure to satisfy that requirement; | <i>not started</i> |
| MWI59 | 0% | Configuration Management: implement its instantiation. | <i>not started</i> |
| MWI723 | 25% | Image file access server ready | |
| MWI722 | 30% | Prepare LSST2 for iRODS | |
| MWI848 | 75% | Prepare LSST1 as web data server / schema browser | |
| MWI859 | 0% | Web Data server ready | <i>not started</i> |
| MWI834 | 0% | Select CHFT Test Data | <i>not started</i> |
| MWI837 | 50% | Download CFHT Data | |

*Percent updated in this report

Comments:

Other Activities

Hanushevsky Andy

Reported xx/xx/xx

| ID | Percent | Task | Comments |
|--------|---------|-------------------------------------------------------------------------|----------|
| MWI165 | 94% | 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 | 94% | 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 | |
| MWI465 | 40% | implement objectId synchronization between data releases (not DC3) | |
| MWI669 | 0% | Determine segment images over a given sky tile | <i>not started</i> |

*Percent updated in this report

Comments:

Other Activities

Pietrowicz Steve

Reported 08/23/10

| ID | Percent | Task | Comments |
|--------|---------|-------------------------------------------|--------------------|
| MWI658 | 0% | I/O stage for interactive pipeline launch | <i>not started</i> |
| MWI659 | 75% | Refactor Orca | |
| | 25% | life-support services | |
| 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:

Worked on issues for the startup script supplied by the user for orca runs. Added an enhancement to job office to start processing of data sooner. Both of these shortened the length of time the processing started by a considerable amount.

I was on vacation for the last two weeks.

Other Activities

Plante Ray

Reported 08/24/10

| 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 | |
| MWI671 | 50% | LRU cache for calibrated science exposures | |
| MWI672 | 75%* | Write/retrieve images to disk/tape | I have software for pulling and putting; I just need to package some convenient tools. |
| MWI842 | 100%* | Develop and implement file bundling for Mass Store | This is related to MWI672; due to my reduced availability during PT1, multiple ways of bundling data have crept into MSS, but we can deal with it. |
| MWI855 | 75% | JobOffice? Middleware, testing and debug | I've picked up work on this again. |
| MWI848 | 100%* | Prepare LSST1 as web data server / schema browser | data is now available via a web service on lsst1 |

*Percent updated in this report

Comments:

Other Activities

- Attended All Hands Meeting 8/9-13.
- Hosted visit from John Stevenson of Purdue to talk about running ImSim on GPU clusters at NCSA. We concluded that NCSA public and experimental platforms are an excellent match to the ImSim code.

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 08/23/10

| ID | Percent | Task | Comments |
|--------|---------|-------------------------------------------------------------------------|------------------------------------------------------------------|
| MWI696 | 1%* | DC3b syntax parser and aggregation | aggregation complete, lsst10 query logs to be processed |
| MWI165 | 94% | support persistence and retrieval of deep detection products and inputs | working on ~100gb-data/many-node scalability, PT1a query support |

*Percent updated in this report

Comments:

- Qserv Development
 - ◆ Finish query squashing on master and worker
 - ◆ Add/update basic commenting
 - ◆ Add support for convex hulls using geom pkg
 - ◆ (worker) fix various bugs that affected query squashing.
 - ◆ Implementing better configuration hooks to simplify things and aid testing multiple logical databases.
 - ◆ minor code cleanup
- Testing
 - ◆ Implement data duplicator for PT1 data.

Status of PT1 query support: Parsing and execution appears robust, but query logs from lsst10 have not yet been sorted, characterized, and tested on qserv for syntax support. Deferred while scale tests are being done.

Other Activities

- Attended AHM
- Coordinate hive-testing.

- qserv wiki updates

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