

Previous month Apps - MW/Inf - Mgt/SE

Current month MW/Inf - Mgt/SE

Next month Apps - MW/Inf - Mgt/SE

Apps Status Report for August 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 8/23/2010

ID	Percent	Task	Comments
APP200	100%*	validate initial integration run successfully completed	

*Percent updated in this report

Other Activities

- Took over responsibility for buildbot implementation. Added continuous test of complete PT1 Applications pipeline (sans orchestration); this is known in buildbot web interface as: "trunk vs current" for datarel.
- Currently developing the complementary buildbot continuous integration for all trunk packages to be known as "trunk vs trunk". This implies that a single trunk package is selected which then builds and uses trunk versions of all its DM dependencies in order to run the selected package's tests.
- Additional testing of the PT1 ABE production demonstrated that recent changes to orchestration have dramatically sped up the production processing initialization phase.

Axelrod Tim

Reported xx/xx/xx

ID	Percent	Task	Comments
APP155	0%	photometric self calibration	<i>not started</i>

APP56	80%	defining units	
APP261	20%	create calibration catalogs for CFHTLS	
APP291	0%	create input data for <u>ImSim</u>	<i>not started</i>
APP263	50%	identify set of images for compression tests	
APP260	90%	define DC3b data quality requirements	
APP204	0%	identify scientists to analyze stage output	<i>not started</i>
APP199	0%	PT1 best efforts science data analysis/validation	<i>not started</i>
APP191	50%	Provide special case simulation needs (Axelrod)	

*Percent updated in this report

Comments:

Other Activities

Becker Andy

Reported xx/xx/xx

ID	Percent	Task	Comments
APP246	50%	update Diff-Im post design review (ticket 1176)	*
APP245	25%	implement correlation function for spatial kernel fit (ticket 1140)	
APP100	0%	test difference imaging coadds	<i>not started</i>
APP247	40%	code to measure quality of difference imaging coadds	
APP123	100%	find CFHT fringe frames and move to NCSA	*

*Percent updated in this report

Other Activities

All hands meeting; Continuing support for chopping up DC3b PT1 CFHT images; Investigated tuning of ConvolutionControl? to speed up convolution; Worked on kernel regularization code/paper

Becla Jacek

Reported xx/xx/xx

ID	Percent	Task	Comments
APP54	50%	schema updates for all exposure related tables	
APP55	0%	synthetic sources of data	<i>not started</i>
APP56	80%	defining units	

*Percent updated in this report

Comments:

Other Activities

Bickerton Steve

Reported xx/xx/xx

ID	Percent	Task	Comments
APP295	25%	stellar photometry	
APP256	0%	compute statistics on a sky pixel masked image	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Good John

Reported xx/xx/xx

ID	Percent	Task	Comments
APP226	0%	code PT1 SUI tools	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Jarvis Mike

Reported xx/xx/xx

ID	Percent	Task	Comments
APP105	50%	PSF for deep detection	Code is complete, and passed a code review of the .h files only. However, I have not done much in the way of unit tests yet.

*Percent updated in this report

Comments:

Other Activities

Jones Lynne

Reported xx/xx/xx

ID	Percent	Task	Comments
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*Percent updated in this report

Other Activities

Comments:

Other Activities

Krughoff Simon

Reported xx/xx/xx

ID	Percent	Task	Comments
APP84	0%	apply fringe frame correction	<i>not started</i>
APP83	*100%	develop camera state classes (CCDinfo and Ampinfo)	Butler does this
APP82	*100%	develop calibration products database classes	Butler does this
APP250	*100%	write stage dictionaries and unit tests for ValidateMetaData? and CalibrationDataProducts?	Butler does this

*Percent updated in this report

Comments:

Other Activities

Laher Russ

Reported xx/xx/xx

ID	Percent	Task	Comments
APP90	0%	implement SDQA tool functionality to support DC3b goals	<i>not started</i>
APP89	0%	query metadata and package in C++ container	<i>not started</i>
APP88	0%	implement threshold comparison	<i>not started</i>
APP211	50%	WCS verification code	
APP210	75%	ATpy evaluation	
APP283	0%	identify existing sdqa metrics	<i>not started</i>
APP282	0%	code to validate ISR pipeline outputs	<i>not started</i>
APP281	0%	code to validate IC pipeline outputs	<i>not started</i>
APP280	0%	code to validate image subtraction	<i>not started</i>
APP288	0%	code to validate detection of sources in subtracted image	<i>not started</i>
APP290	0%	code to validate association pipeline	<i>not started</i>
APP287	0%	code to validate deep detection and measurement pipeline	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Levine Deborah

Reported xx/xx/xx

ID	Percent	Task	Comments
APP90	0%	implement SDQA tool functionality to support DC3b goals	<i>not started</i>
APP229	25%	identify tools to support PT1 data analysis	
APP227	0%	manage PT1 data access tools task	<i>not started</i>
APP235	0%	design and document SUI in UML	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Lim KT

Reported xx/xx/xx

ID	Percent	Task	Comments
APP6	0%	interslice communications	<i>not started</i>
APP7	0%	post spatial matching (stretch goal)	<i>not started</i>
APP192	75%	translate overall production into pipeline, stages, and policies	

*Percent updated in this report

Comments:

Other Activities

Lupton Robert

Reported xx/xx/xx

ID	Percent	Task	Comments
APP139	0%	integrate HEALPix into software stack	<i>not started</i>
APP100	0%	test difference imaging coadds	<i>not started</i>
APP121	50%	adapt astrometry code for DC3b use	

*Percent updated in this report

Comments:

Other Activities

Mannings Vince

Reported xx/xx/xx

ID	Percent	Task	Comments
APP235	0%	design and document SUI in UML	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Monet Dave

Reported xx/xx/xx

ID	Percent	Task	Comments
APP121	50%	adapt astrometry code for DC3b use	

*Percent updated in this report

Comments:

Other Activities

Monkewitz Serge

Reported xx/xx/xx

ID	Percent	Task	Comments
APP144	50%	move applications code out of stage code	still needs to be done for nightly association
APP162	50%	modify stage code to conform with new MW API	still needs to be done for nightly association
APP243	0%	implement Detection/Source? association	<i>not started</i>
APP6	0%	interslice communications	<i>not started</i>
APP7	0%	post spatial matching (stretch goal)	<i>not started</i>
APP74	0%	characterization of and improvements to association cosmic ray rejection performance	<i>not started</i>
?	0%	Assist Russel Owen with APP139 and APP94 as needed	<i>not started</i>

*Percent updated in this report

Comments:

Other Activities

Mullally Fergal

Reported xx/xx/xx

ID	Percent	Task	Comments
APP86	60%	implement improvements for WCS	
APP151	60%	implement stage structure for support astrometry code	

*Percent updated in this report

Comments:

Other Activities

Myers Jon

Reported xx/xx/xx

ID	Percent	Task	Comments
APP140	25%	integrate MOPS stages with new C++ KD-Tree tools	
APP129	75%	run DayMOPS with solar system model	Successful track generation for a large subset of our data has been completed.
APP141	75%	write linkTracklets and unit tests	
APP267	50%	update DayMOPS for new DIASource Table	Schema written and tested, stages not rewritten
APP266	0%	Fix C-linkTracklets Python bindings	<i>not started</i>
APP265	0%	make DIASource the smallest unit of Tracks and MovingObject??	<i>not started</i>
APP264	0%	update DayMOPS to stop using template tables	<i>not started</i>
APP270	0%	remove DIASourceForTonight table, pass DIASource on clipboard	<i>not started</i>
APP269	0%	pass Tracks on clipboard rather than via Tracks table	<i>not started</i>
APP268	0%	made a new initial stage which gets night numbers from Policy	<i>not started</i>
APP271	0%	add debug printing to C find/linkTracklets and stage code for storing	<i>not started</i>

*Percent updated in this report

Comments:

- Continued linkTracklets runs, exhausted disk space on mops64 with the output!

- Studied and discussed various methods for IOD and alternative approaches to inter-nightly linking.
- Built code to convert our tracklets and tracks to MPC format for use with command-line version of OOrb.
- Tested OOrb on our tracklets and tracks from the command-line using ground-truth tracks taken from DB. Discovered that at least two of our NEO tracks were failing ranging; reported this to Mikael Granvik (OOrb developer) and asked for his input.
- Built report on track generation; false track rate is currently much too high.
- Presented breakout talk on MOPS at AHM.
- Added content to non-public LSST-Mops Wiki including a chart of results from completed linkTracklets runs

Other Activities

Owen Russ

Reported 08/23/10

ID	Percent	Task	Comments
APP77	100%	fix ticket #873	
APP139	25%	integrate HEALPix into software stack	this has changed to implement sky pixelization
APP94	25%	code to warp images to/from sky pixel representation	If we adopt my sky pixelization proposal then this is finished (existing code will work)
APP209	50%	implement outlier rejection	
APP98	50%	code to create PSF-matched difference imaging coadds (no outlier rejection)	
APP257	50%	code to create deep monochromatic coadds	
APP104	75%	code to detect chi-squared deep detection coadds (no outlier rejection)	
APP103	0%	create a set of chi-squared deep detection coadds	<i>not started</i>
APP102	0%	code to measure quality of deep detection coadds	<i>not started</i>

*Percent updated in this report

Comments: Additional tasks are speeding up convolution and warping.

Other Activities

Shaw Dick

Reported xx/xx/xx

ID	Percent	Task	Comments
APP240	*15%	DC3b User Guide	
APP242	0%	create uesr training program	<i>not started</i>
APP234	0%	develop Use Cases for SUI	<i>not started</i>
APP239	*100%	CFHT-LS Calibration Reference Files	<i>done</i>
APP208	*100%	define CFHT to be used	<i>Done</i>

*Percent updated in this report

Comments:

Other Activities

- Contributed to SDQA system planning for post-DC3 era.
- Attended LSST-AHM. Solicited feedback from Science Collaboration members on DC Handbook, user support needs, and needs for interaction with DM staff. Also participated in break-out meetings, including those on SDQA planning, Camera--DM interaction, SUI community meeting, DM post-DC3b-PT1 planning.

Van Dyk Schuyler

Reported 08/23/10

ID	Percent	Task	Comments
APP229	75%	identify tools to support PT1 data analysis	
APP240	8%	DC3b User Guide	
APP296	100%	set up helpdesk system	lssthelph email
APP234	0%	develop Use Cases for SUI	<i>not started</i>
APP235	0%	design and document SUI in UML	<i>not started</i>
APP260	100%	define DC3b data quality requirements	for PT1a
APP230	100%	complete DM system data product quality metrics document	for PT1a
APP199	100%	PT1 best efforts science data analysis/validation	for PT1a

*Percent updated in this report

Comments:

Other Activities

Major Accomplishments

Significant breakthroughs, issues resolved.

- PT1 Production runs completed

Objectives for the Next Period

What you expect to accomplish.

Problems Encountered and Solutions Being Pursued

Budget or schedule variance, technical issues, management issues.

- The problems of data accessibility (permissions), availability (location and quantity) and backup to mass storage, were addressed and new policies and procedures are being developed by the ABE and lsst cluster managers.
- PT1 production pipeline stack startup time lengthens with increases in the number of raw input items. The short-term remedy of multiple shorter runs, was effective. The long-term issue is being addressed.