

DM DC3b PT 1_1 Plan

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1	ImSim Data	12 days	Mon 8/23/10	Tue 9/7/10		
2	Make census of ImSim data at NCSA, request missing visits resend	1 day	Mon 8/23/10	Mon 8/23/10		Plante Ray[50%]
3	Create ImSim Data Flow for PT 1.1 from all image generation sites	5 days	Tue 8/24/10	Mon 8/30/10	2	Plante Ray[25%], Krughoff Simon[25%]
4	Prepare to generate 600 visits in 7 adjacent fields in 15 x 15 field	5 days	Mon 8/23/10	Fri 8/27/10		Krughoff Simon[30%]
5	Generate reference galaxy catalog (turn on magnitudes)	5 days	Mon 8/30/10	Fri 9/3/10	4	Krughoff Simon[30%]
6	Import reference catalogs into Gator for comparison to output catalogs	2 days	Mon 9/6/10	Tue 9/7/10	5	Monkewitz Serge[50%]
7	Environment and Tools	76 days	Mon 8/23/10	Mon 12/6/10		
8	TCT approval for environment/tool updates	1 day	Mon 8/23/10	Mon 8/23/10		Allsman Robyn[50%]
9	Install, configure, publish environment/tool updates	2 days	Tue 8/24/10	Wed 8/25/10	8	Plante Ray[25%]
10	Complete eups release	5 days	Thu 8/26/10	Wed 9/1/10	9	Plante Ray[25%]
11	Support trac, svn, systems administration	76 days	Mon 8/23/10	Mon 12/6/10		Petrowicz Steve[15%]
12	Document Single Stage Tester, Stand-alone, Repeatable Failure scripts	2 days	Mon 8/23/10	Tue 8/24/10		Lim KT[50%]
13	Production-Pipeline-Stage Middleware	30 days	Mon 8/23/10	Fri 10/1/10		
14	Improve Logging performance, reporting, error checking	20 days	Mon 8/23/10	Fri 9/17/10		Petrowicz Steve[10%], Daus Greg[10%]
15	Restore logging to database	10 days	Mon 8/23/10	Fri 9/3/10		Petrowicz Steve[10%]
16	Update Event Monitor for execution statistics	20 days	Mon 9/6/10	Fri 10/1/10	15	Petrowicz Steve[15%]
17	Improve shutdown mechanism for data stack	15 days	Mon 8/23/10	Fri 9/10/10		Daus Greg[10%], Petrowicz Steve[35%]
18	Complete JobOffice implementation to allow integration of Source Association	5 days	Thu 9/2/10	Wed 9/8/10	10	Plante Ray[50%]
19	Data Release Production Architecture and Performance	76 days	Mon 8/23/10	Mon 12/6/10		
20	Improve speed of convolution and warping	76 days	Mon 8/23/10	Mon 12/6/10		Owen Russ[50%]
21	Implement speed-up for ISR metrics calculation	1 day	Wed 9/1/10	Wed 9/1/10		Krughoff Simon
22	Merge 6 PT1 Pipelines into 2	1 day	Mon 8/30/10	Mon 8/30/10		Lim KT[50%]
23	Data Access Middleware and Database	33 days	Tue 8/31/10	Thu 10/14/10		
24	Subimage and WCS retrieval in Data Butler	1 day	Tue 8/31/10	Tue 8/31/10	22	Lim KT[50%]
25	Pass through comments in FITS headers	5 days	Wed 9/1/10	Tue 9/7/10	24	Lim KT[50%]
26	Database schema updates (incl galaxy photometry)	20 days	Fri 9/17/10	Thu 10/14/10	40FS+2 days	Becta Jacek[5%]
27	Point Source Photometry	20 days	Mon 8/23/10	Fri 9/17/10		
28	Split photometry and astrometry catalogs	10 days	Mon 8/23/10	Fri 9/3/10		Lang Dustin[50%]
29	Identify and fix zeropoint calculation error	5 days	Mon 8/23/10	Fri 8/27/10		Axelrod Tim[30%]
30	Implement aperture corrections	20 days	Mon 8/23/10	Fri 9/17/10		Bickerton Steve[50%]
31	PSF Estimation	30 days	Mon 8/23/10	Fri 10/1/10		
32	Implement Jarvis PSFs	20 days	Mon 8/23/10	Fri 9/17/10		Jarvis Mike[50%]
33	Implement PCA PSFs	10 days	Mon 8/23/10	Fri 9/3/10		Lupton Robert[25%]
34	Change meas algorithms to support multiple PSFs	10 days	Mon 9/20/10	Fri 10/1/10	33,32	Lupton Robert[50%]
35	Background Determination	15 days	Mon 8/23/10	Fri 9/10/10		
36	Tune mesh size	15 days	Mon 8/23/10	Fri 9/10/10		Becker Andy[25%]
37	Examine statistics (mean vs median)	15 days	Mon 8/23/10	Fri 9/10/10		Becker Andy[25%], Bickerton Steve[50%]
38	Galaxy Photometry	22 days	Wed 8/25/10	Thu 9/23/10		
39	Integrate fitting code with data butler, single stage tester and test locally	5 days	Wed 8/25/10	Tue 8/31/10	12	Bosch Jim[10%], Dubcovsky Martin[50%]
40	Determine fitting code failure modes	10 days	Wed 9/1/10	Tue 9/14/10	39	Bosch Jim[10%], Dubcovsky Martin[50%]
41	Determine fitting outputs to be stored in database	1 day	Tue 9/14/10	Tue 9/14/10	40FF	Bosch Jim[10%], Dubcovsky Martin[50%]
42	Update Source class for galaxy photometry, incl formatters	2 days	Wed 9/15/10	Thu 9/16/10	41	Monkewitz Serge[50%], Lupton Robert[50%]
43	Write stages for source fitting	5 days	Fri 9/17/10	Thu 9/23/10	42	Bosch Jim[10%], Dubcovsky Martin[50%]
44	Source Association	38 days	Mon 8/23/10	Wed 10/13/10		
45	Define SDQA metrics for Source Association	3 days	Mon 8/23/10	Wed 8/25/10		Monkewitz Serge[50%], Axelrod Tim[25%]
46	Implement SDQA metrics for Source Association	10 days	Thu 8/26/10	Wed 9/8/10	45	Monkewitz Serge[50%]
47	Iteratively improve Source Association algorithm	23 days	Thu 9/9/10	Mon 10/11/10	46	Monkewitz Serge[50%]
48	Change Source Association to use inverse variance weighting and calibrated fluxes	2 days	Tue 10/12/10	Wed 10/13/10	47	Monkewitz Serge[50%]
49	Build and Test	76 days	Mon 8/23/10	Mon 12/6/10		
50	Configure continuous integration - release branch	1 day	Mon 8/23/10	Mon 8/23/10		Allsman Robyn[50%]
51	Configure continuous integration - development branch	5 days	Tue 8/24/10	Mon 8/30/10	50	Allsman Robyn[50%]
52	Monitor buildbot integration and test	70 days	Tue 8/31/10	Mon 12/6/10	51	Allsman Robyn[25%]
53	Production Runs	76 days	Mon 8/23/10	Mon 12/6/10		
54	Practice runs on Abe with CFHT night/sub-night	10 days	Mon 8/23/10	Fri 9/3/10		Daus Greg[10%]
55	Abe runs with ImSim data subsets	36 days	Mon 10/18/10	Mon 12/6/10	1,13,27,7,23,31,3	Daus Greg[50%]
56	User Support	60 days	Mon 8/23/10	Fri 11/12/10		
57	Prepare Data Challenge Handbook	20 days	Mon 8/23/10	Fri 9/17/10		Shaw Dick[50%]
58	Organize DM User Support	10 days	Mon 9/20/10	Fri 10/1/10	57	Shaw Dick[50%]
59	Define SDQA analysis process	10 days	Mon 10/4/10	Fri 10/15/10	58	Shaw Dick[50%]
60	Configure/tune catalogs	20 days	Mon 10/18/10	Fri 11/12/10	59	Becta Jacek[10%]
61	Data Analysis	25 days?	Mon 10/18/10	Fri 11/19/10		
62	DM Scientist/Engineer data analysis	20 days	Mon 10/18/10	Fri 11/12/10	59	Axelrod Tim[50%], Lupton Robert[50%], Bosch Jim[50%]
63	Science Collaboration data analysis	20 days	Mon 10/18/10	Fri 11/12/10	59	Science Collaboration
64	Data analysis report	5 days?	Mon 11/15/10	Fri 11/19/10	62,63	Axelrod Tim[50%], Lupton Robert[50%], Bosch Jim[50%]
65						
66	Generate storage proposals	76 days	Mon 8/23/10	Mon 12/6/10		Petrowicz Steve[20%]