

ID	% Complete	Task Name	Start	Finish	May '08	Jun '08	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Jan '09	Feb '09	Mar '09	Apr '09	May '09	Jun '09
					4	1 8	6	3	7	5	2 9	7	4	1 8	1 8	5	3	7
1	7%	<b>DC3</b>	Thu 5/1/08	Fri 5/15/09	[Summary bar]													
2	16%	<b>DC3 Management, Coordination and Support</b>	Thu 5/1/08	Fri 3/20/09	[Summary bar]													
3	23%	DC3 coordination	Thu 5/1/08	Fri 3/20/09	[Task bar]													
4	7%	Infrastructure maintenance	Mon 7/14/08	Fri 3/20/09	[Task bar]													
5	16%	<b>Middleware</b>	Thu 5/1/08	Fri 5/15/09	[Summary bar]													
6	0%	<b>SW Quality Assurance</b>	Thu 5/1/08	Wed 9/3/08	[Summary bar]													
7	0%	<b>Software Quality Assurance: Planning</b>	Thu 5/1/08	Wed 9/3/08	[Summary bar]													
8	0%	<b>Develop Framework of LSST DM Software Development PI</b>	Thu 5/1/08	Wed 5/21/08	[Summary bar]													
9	0%	Software Quality Assurance Plan	Thu 5/1/08	Wed 5/21/08	[Task bar] RA[33%]													
10	0%	Verification and Validation Plan	Thu 5/1/08	Wed 5/21/08	[Task bar] RA[33%]													
11	0%	Configuration Management Plan	Thu 5/1/08	Wed 5/21/08	[Task bar] RA[33%]													
12	0%	<b>Verification and Validation: Tracking Requirement to Tested Product Release</b>	Thu 5/22/08	Wed 9/3/08	[Summary bar]													
13	0%	Standards: develop standard labelling scheme for products and their provenance.	Thu 5/22/08	Thu 5/29/08	[Task bar] RA													
14	0%	V and V: define the procedure whereby the initial requirements are traced to the validated product	Thu 8/28/08	Wed 9/3/08	[Task bar] RA[50%]													
15	0%	Develop Data Challenge 3 specialization of those SQA plans	Fri 5/30/08	Tue 6/17/08	[Task bar] RA													
16	0%	Evaluation of (commercially/open-source) available testing tool:	Wed 6/18/08	Wed 8/6/08	[Task bar] RA													
17	0%	Decision on testing tool	Wed 8/6/08	Wed 8/6/08	[Task bar] RA													
18	0%	<b>Verification and Validation: Acquire SQA support tools</b>	Thu 8/7/08	Wed 8/13/08	[Summary bar]													
19	0%	configurable tool to perform Lsst software standards checking	Thu 8/7/08	Wed 8/13/08	[Task bar] RA[50%]													
20	0%	coverage analysis tool	Thu 8/7/08	Wed 8/13/08	[Task bar] RA[50%]													
21	0%	<b>Verification and Validation: Increased Validation Testing</b>	Tue 7/1/08	Wed 9/3/08	[Summary bar]													
22	0%	<b>Standards: specify the testing requirements for each phase of Product development:</b>	Tue 7/1/08	Wed 8/20/08	[Summary bar]													
23	0%	implement automatic creation of integration test stubs from EA Use Cases	Tue 7/1/08	Tue 7/29/08	[Task bar] Jeff B													
24	0%	unit test: black box, white box, performance tests	Thu 8/14/08	Wed 8/20/08	[Task bar] RA[25%]													
25	0%	integration tests: black box, white box, performance, regression tests	Thu 8/14/08	Wed 8/20/08	[Task bar] RA[25%]													
26	0%	system tests: function, performance, interface, resource, security, portability, reliability, maintainability, safety	Thu 8/14/08	Wed 8/20/08	[Task bar] RA[25%]													
27	0%	acceptance tests: capability and constraint tests	Thu 8/14/08	Wed 8/20/08	[Task bar] RA[25%]													
28	0%	Standards: specify the pass/fail metrics for each test type (eg compliance levels)	Thu 8/21/08	Wed 8/27/08	[Task bar] RA													
29	0%	V and V: Refine the workflow process to incorporate additional V & V testing.	Thu 8/28/08	Wed 9/3/08	[Task bar] RA[50%]													
30																		
31	23%	<b>Build System</b>	Thu 5/1/08	Tue 11/11/08	[Summary bar]													

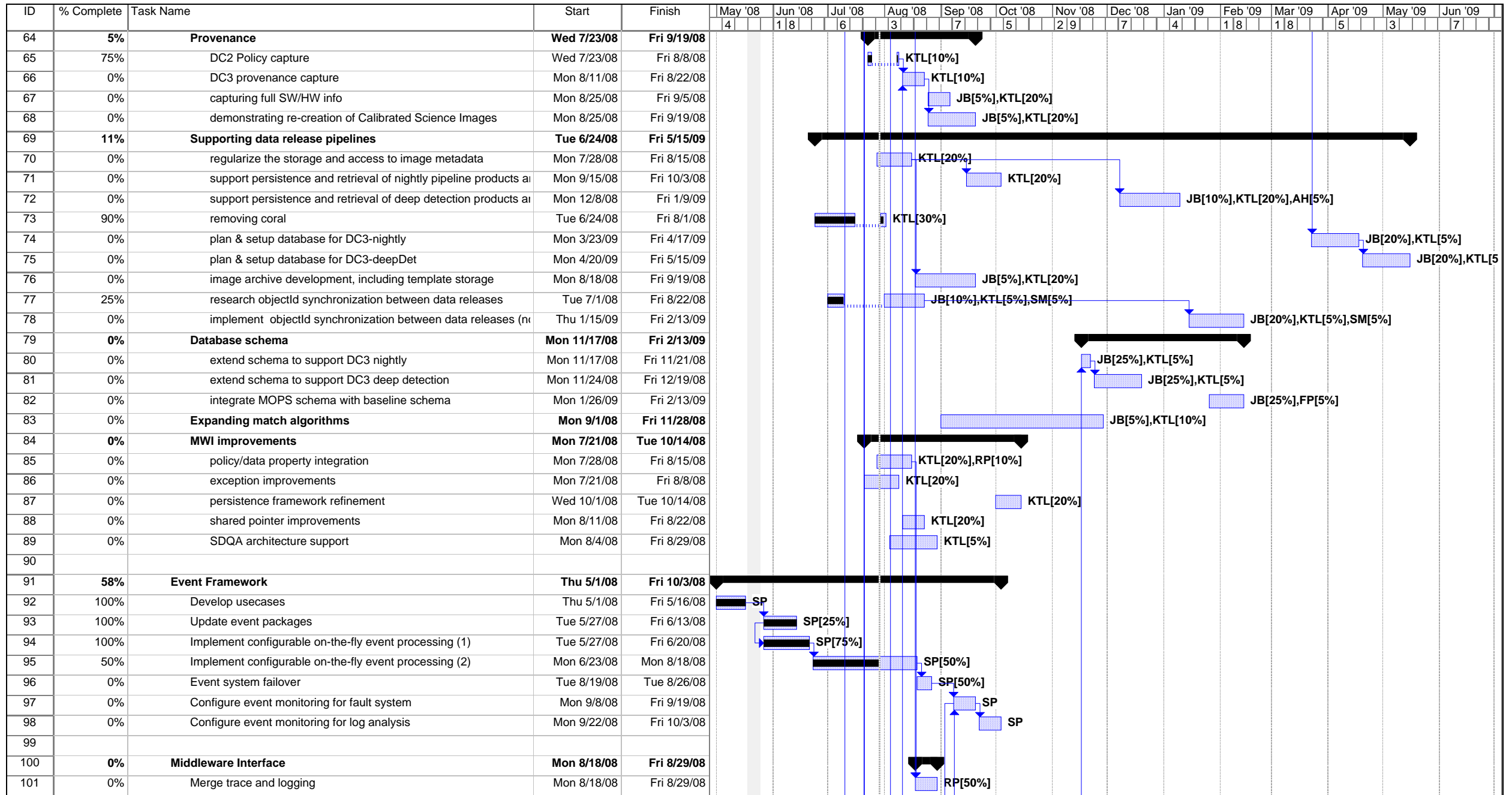
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Task		Progress		Summary		External Tasks		Deadline	
Split		Milestone		Project Summary		External Milestone			

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					4	1 8	6	3	7	5	2 9	7	4	1 8	1 8	5	3	7
32	70%	update software distribution server	Mon 6/2/08	Fri 6/13/08														
33	0%	implement new package build mechanism	Thu 5/1/08	Mon 6/9/08														
34	40%	convert to new package build mechanism (remove dependency on	Mon 6/16/08	Fri 6/20/08														
35	70%	enable support for 64-bit Linux	Tue 7/8/08	Mon 7/14/08														
36	16%	<b>VMs</b>	<b>Thu 5/1/08</b>	<b>Tue 11/11/08</b>														
37	100%	create and configure distributable VMs	Thu 5/1/08	Fri 5/16/08														
38	25%	deploy SW stack on VMs	Mon 8/4/08	Fri 8/8/08														
39	0%	(BB) support distributable VMs for new developers	Mon 8/11/08	Tue 11/11/08														
40	57%	<b>deploy automated, multi-platform testing system</b>	<b>Thu 5/1/08</b>	<b>Wed 9/10/08</b>														
41	100%	investigate continous integration systems	Thu 5/1/08	Fri 5/16/08														
42	100%	decide on continous integration system	Fri 5/16/08	Fri 5/16/08														
43	40%	install and configure initial testing system	Fri 6/20/08	Fri 7/11/08														
44	5%	configure test sytem for automated V&V	Thu 9/4/08	Wed 9/10/08														
45	0%	create better templates for SConstruct, SConscript, and Swig .i file	Tue 6/10/08	Mon 6/16/08														
46	8%	<b>implement Software Quality Assurance procedures relevant to build process</b>	<b>Mon 7/14/08</b>	<b>Fri 8/8/08</b>														
47	10%	<b>within Ticket branch development</b>	<b>Mon 7/14/08</b>	<b>Fri 7/18/08</b>														
48	10%	build warnings if coding standards check fails	Mon 7/14/08	Tue 7/15/08														
49	10%	build warnings if unittest doesn't satisfy DC3 coverage requirement	Wed 7/16/08	Fri 7/18/08														
50	10%	<b>within Trunk branch development (generally merge from Ticket branch)</b>	<b>Mon 7/21/08</b>	<b>Fri 7/25/08</b>														
51	10%	build failure if unittest doesn't satisfy DC3 coverage require	Mon 7/21/08	Tue 7/22/08														
52	10%	build failure if coding standards check fails	Wed 7/23/08	Fri 7/25/08														
53	10%	<b>Nightly build of development trunk</b>	<b>Mon 7/28/08</b>	<b>Fri 8/1/08</b>														
54	10%	any failures cause automatic 'Failed Nightly Build' ticket at high priority	Mon 7/28/08	Fri 8/1/08														
55	0%	<b>Production Release sanity check</b>	<b>Mon 8/4/08</b>	<b>Fri 8/8/08</b>														
56	0%	any failure causes automatic 'Failed Production sanity check' ticket at high priority	Mon 8/4/08	Tue 8/5/08														
57	0%	auxiliary automatic notification to highest authority on failure (separate from ticket notification)	Wed 8/6/08	Fri 8/8/08														
58	0%	<b>Configuration Management: 'Build' upgrade</b>	<b>Mon 8/11/08</b>	<b>Fri 8/22/08</b>														
59	0%	Standards: specify requirement to version and archive build's provenance;	Mon 8/11/08	Tue 8/12/08														
60	0%	Configuration Management: define procedure to satisfy that requirement;	Wed 8/13/08	Fri 8/15/08														
61	0%	Configuration Management: implement its instantiation.	Mon 8/18/08	Fri 8/22/08														
62																		
63	6%	<b>Database</b>	<b>Tue 6/24/08</b>	<b>Fri 5/15/09</b>														

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Task Progress Summary External Tasks Deadline   
 Split Milestone Project Summary External Milestone



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					4	1 8	6	3	7	5	2 9	7	4	1 8	1 8	5	3	7
102																		
103	25%	<b>Pipeline Harness extensions ¶</b>	Thu 5/1/08	Wed 10/29/08														
104	100%	Develop usecases	Thu 5/1/08	Fri 5/16/08														
105	33%	<b>Complete design for data sharing among Slices</b>	Tue 5/27/08	Mon 9/1/08														
106	33%	<b>Support use cases for interSlice communication</b>	Tue 5/27/08	Mon 9/1/08														
107	50%	identify neighbors of a Slice: known in advance, or dynam	Tue 5/27/08	Wed 8/20/08														
108	0%	identify data types that are transmitted in each use case	Thu 8/21/08	Wed 8/27/08														
109	50%	Determine level at which communication occurs	Tue 6/10/08	Mon 9/1/08														
110	0%	<b>Implement data sharing mechanisms</b>	Mon 9/1/08	Wed 10/1/08														
111	0%	Work to support communication of general serializable types o	Mon 9/1/08	Wed 10/1/08														
112	0%	Develop mechanisms for identifying/accessing	Wed 10/1/08	Wed 10/29/08														
113																		
114	47%	<b>Fault Tolerance</b>	Mon 6/16/08	Fri 10/3/08														
115	90%	Fault tolerance plan - individual contributions	Mon 6/16/08	Thu 7/31/08														
116	0%	Fault tolerance plan - final editing	Fri 8/1/08	Fri 8/8/08														
117	0%	Improving exception handling	Mon 9/8/08	Fri 10/3/08														
118																		
119	0%	<b>Pipeline Orchestration Layer</b>	Thu 5/1/08	Fri 9/5/08														
120	0%	Develop usecases	Thu 5/1/08	Fri 5/16/08														
121	0%	fill out the design of the orchestration layer, identify the component	Tue 5/27/08	Mon 7/7/08														
122	0%	implement an orchestration layer	Mon 7/21/08	Fri 8/29/08														
123	0%	"life-support" services	Mon 9/1/08	Fri 9/5/08														
124																		
125	1%	<b>Applications</b>	Mon 6/2/08	Tue 3/31/09														
126	0%	<b>Applications Framework</b>	Mon 6/9/08	Fri 8/29/08														
127	0%	update from DC2	Mon 6/9/08	Fri 8/29/08														
128	0%	<b>Nightly Processing</b>	Mon 6/2/08	Tue 12/30/08														
129	0%	association pipeline improvements	Fri 8/1/08	Tue 12/30/08														
130	0%	association pipeline improvements to DC2	Fri 8/1/08	Tue 12/30/08														
131	0%	add proper motion, color dependent refraction and source listir	Mon 10/6/08	Fri 11/28/08														
132	0%	instrument signature removal	Mon 6/2/08	Fri 11/28/08														
133	0%	implement infrastructure & standard astronomical CCD image	Mon 6/2/08	Fri 10/3/08														
134	0%	implement selected additional signature removal, eg crosstalk	Mon 10/6/08	Fri 11/28/08														
135	0%	generate usable PSF model for DC3 tasks	Mon 6/30/08	Fri 10/3/08														
136	0%	produce negotiated diagnostic metrics for use by SDQA	Tue 9/2/08	Fri 11/28/08														
137	0%	MOPS	Tue 9/2/08	Fri 11/28/08														
138	0%	tweaks to nightly MOPS	Tue 9/2/08	Fri 11/28/08														
139	0%	integration of DayMOPS into LSST	Tue 9/2/08	Fri 11/28/08														

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					4	1 8	6	3	7	5	2 9	7	4	1 8	1 8	5	3	7
140	0%	improve WCS determination	Mon 10/6/08	Fri 11/28/08														
141	0%	improve basis functions	Mon 10/6/08	Fri 11/28/08														
142	0%	source characterization for stars and galaxies	Mon 10/6/08	Fri 11/28/08														
143	0%	<b>Data Release Processing</b>	<b>Tue 7/1/08</b>	<b>Tue 3/31/09</b>														
144	15%	regularize the storage and access to image metadata*	Mon 7/28/08	Fri 8/15/08														
145	0%	image coaddition: image resampling/stacking/combining	Tue 7/1/08	Fri 10/3/08														
146	15%	image retrieval service	Mon 7/21/08	Fri 8/22/08														
147	0%	photometric calibration: simulate pipeline algorithms, handle time c	Tue 9/2/08	Mon 1/5/09														
148	0%	deep detection	<b>Wed 10/1/08</b>	<b>Tue 3/31/09</b>														
149	0%	detection in coadded image	Wed 10/1/08	Mon 2/2/09														
150	0%	psf stellar photometry	Wed 10/1/08	Mon 3/2/09														
151	0%	deblending confused sources	Wed 10/1/08	Tue 3/31/09														
152	0%	galaxy (extended source) photometry framework	Wed 10/1/08	Tue 3/31/09														
153	0%	background estimation	Mon 12/1/08	Tue 3/31/09														
154	0%	Implement algorithm for co-adding images to produce a template i	Fri 8/1/08	Fri 1/30/09														
155	0%	multifit: shape measurements and photometry for galaxies	Wed 10/1/08	Mon 3/2/09														
156	0%	astrometric calibration: determine low order terms	Wed 10/1/08	Tue 3/31/09														
157	0%	photometric calibration: run algorithms against CFHT data	Mon 1/5/09	Tue 3/31/09														
158	0%	SDQA diagnostic generation	Tue 9/2/08	Mon 12/1/08														
159	30%	<b>Database</b>	<b>Tue 6/10/08</b>	<b>Fri 11/28/08</b>														
160	70%	integrate MOPS schema with baseline schema*	Tue 6/10/08	Mon 6/30/08														
161	0%	integrate SDQA persistence into schema	Mon 11/3/08	Fri 11/28/08														
162	0%	<b>SDQA</b>	<b>Mon 6/2/08</b>	<b>Fri 2/27/09</b>														
163	0%	determine SDQA architecture	Mon 6/2/08	Fri 10/3/08														
164	0%	Implement one or more use case end to end	Mon 7/7/08	Fri 2/27/09														
165	0%	<b>Data</b>	<b>Mon 6/2/08</b>	<b>Tue 9/30/08</b>														
166	0%	created simulated data for the difference, template, deep detection	Tue 7/1/08	Tue 9/30/08														
167	0%	provide CFHT data	Mon 6/2/08	Tue 9/2/08														
168																		
169	17%	<b>non-DC3 activities</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>														
170	17%	<b>DB group</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>														
171	0%	improve trac db documentation for PDR	Mon 11/3/08	Fri 11/28/08														
172	19%	<b>management</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>														
173	20%	hiring	Tue 7/1/08	Mon 9/15/08														
174	19%	telecons	Thu 5/1/08	Tue 6/30/09														
175	19%	others unclassified (SOW, status reports, planning etc)	Thu 5/1/08	Tue 6/30/09														
176	0%	ADASS (prep, attending)	Mon 9/22/08	Fri 10/10/08														
177	0%	VLDB'09 prep	Mon 1/26/09	Fri 2/13/09														

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					4	1 8	6	3	7	5	2 9	7	4	1 8	1 8	5	3	7	
178	0%	Possibly CIDR'09 prep	Tue 9/9/08	Mon 9/29/08															
179	0%	coordinate defining common LSST vocabulary (UCDs)	Mon 2/2/09	Tue 6/30/09															
180	0%	schema browser	Fri 5/1/09	Mon 6/22/09															
181	21%	<b>sciDB</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>	[Summary Bar]														
182	100%	initiating sciDB	Thu 5/1/08	Mon 6/30/08															
183	55%	sciDB steering and building community	Thu 5/1/08	Tue 9/30/08															
184	45%	sciDB design and implementation - I	Tue 7/1/08	Mon 9/1/08															
185	0%	sciDB design and implementation - II (change in personnel)	Tue 9/2/08	Tue 6/30/09															
186	11%	outreach, fund raising and proposals (DoE, NSF, other labs)	Mon 6/16/08	Tue 6/30/09															
187	16%	<b>Large scale tests</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>	[Summary Bar]														
188	95%	interact with sciCollab chairs, refresh list of common queries	Tue 7/1/08	Tue 7/22/08															
189	0%	interact with sciCollab chairs, refresh list of common queries	Mon 12/1/08	Fri 12/19/08															
190	19%	research new db technologies	Thu 5/1/08	Tue 6/30/09															
191	70%	work with UW on scheduling bigtable tests	Mon 6/2/08	Thu 7/31/08															
192	0%	prepare schema for bigtable tests	Tue 7/1/08	Fri 8/8/08															
193	0%	assist google intern with tests, alternative: run hypertable tests	Fri 8/8/08	Fri 11/7/08															
194	45%	preparing testbed for scalability tests, incl sim data	Tue 7/1/08	Thu 7/31/08															
195	0%	test gridSQL	Fri 8/1/08	Tue 9/30/08															
196	0%	run large scale tests	Fri 8/1/08	Tue 9/30/08															
197	0%	tune/optimize large scale tests (1)	Mon 11/3/08	Wed 12/31/08															
198	0%	rerun large scale tests, increase complexity (queries, concurrency)	Thu 1/1/09	Fri 2/27/09															
199	0%	tune/optimize large scale tests (2)	Mon 3/2/09	Thu 4/30/09															
200	0%	write document refining baseline db architecture	Fri 5/1/09	Thu 5/21/09															
201	0%	<b>investigate internal file format for image pixels</b>	<b>Fri 8/1/08</b>	<b>Fri 11/28/08</b>															
202	33%	<b>XLDB2</b>	<b>Tue 7/1/08</b>	<b>Wed 10/15/08</b>															
203	40%	XLDB2 prep	Tue 7/1/08	Fri 9/26/08															
204	0%	XLDB2	Mon 9/29/08	Tue 9/30/08															
205	0%	XLDB2 report	Wed 10/1/08	Wed 10/15/08															
206																			
207	40%	<b>NCSA</b>	<b>Mon 7/21/08</b>	<b>Fri 8/1/08</b>															
208	40%	Security Document	Mon 7/21/08	Fri 8/1/08															