



















ID	Task Name	Duration	Start	Finish	Predecessors
1	<b>DC3</b>	<b>232 days?</b>	<b>Thu 5/1/08</b>	<b>Tue 3/31/09</b>	
2	<b>DC3 Management, Coordination and Support</b>	<b>225 days</b>	<b>Thu 5/1/08</b>	<b>Fri 3/20/09</b>	
3	DC3 coordination	219 days	Thu 5/1/08	Fri 3/20/09	
4	Prepare hardware for DC3 tests	5 days	Mon 7/28/08	Fri 8/1/08	
5	<b>Middleware</b>	<b>200 days</b>	<b>Thu 5/1/08</b>	<b>Fri 2/13/09</b>	
6	<b>SW Quality Assurance</b>	<b>83 days</b>	<b>Thu 5/1/08</b>	<b>Wed 9/3/08</b>	
7	<b>Software Quality Assurance: Planning</b>	<b>83 days</b>	<b>Thu 5/1/08</b>	<b>Wed 9/3/08</b>	
8	<b>Develop Framework of LSST DM Software Development Plans</b>	<b>12 days</b>	<b>Thu 5/1/08</b>	<b>Wed 5/21/08</b>	
9	Software Quality Assurance Plan	15 days	Thu 5/1/08	Wed 5/21/08	
10	Verification and Validation Plan	15 days	Thu 5/1/08	Wed 5/21/08	9SS
11	Configuration Management Plan	15 days	Thu 5/1/08	Wed 5/21/08	9SS
12	<b>Verification and Validation: Tracking Requirement to Tested Product Release</b>	<b>71 days</b>	<b>Thu 5/22/08</b>	<b>Wed 9/3/08</b>	
13	Standards: develop standard labelling scheme for products and their provenance.	5 days	Thu 5/22/08	Thu 5/29/08	11
14	V and V: define the procedure whereby the initial requirements are traced to the validated product	5 days	Thu 8/28/08	Wed 9/3/08	29SS
15	Develop Data Challenge 3 specialization of those SQA plans	7 days	Fri 5/30/08	Tue 6/17/08	13
16	Evaluation of (commercially/open-source) available testing tools	10 days	Wed 6/18/08	Wed 8/6/08	15
17	Decision on testing tool	0 days	Wed 8/6/08	Wed 8/6/08	16
18	<b>Verification and Validation: Acquire SQA support tools</b>	<b>5 days</b>	<b>Thu 8/7/08</b>	<b>Wed 8/13/08</b>	
19	configurable tool to perform Lsst software standards checking	5 days	Thu 8/7/08	Wed 8/13/08	17
20	coverage analysis tool	5 days	Thu 8/7/08	Wed 8/13/08	19SS
21	<b>Verification and Validation: Increased Validation Testing</b>	<b>46 days</b>	<b>Tue 7/1/08</b>	<b>Wed 9/3/08</b>	
22	<b>Standards: specify the testing requirements for each phase of Product development:</b>	<b>36 days</b>	<b>Tue 7/1/08</b>	<b>Wed 8/20/08</b>	
23	implement automatic creation of integration test stubs from EA Use Cases	20 days	Tue 7/1/08	Tue 7/29/08	
24	unit test: black box, white box, performance tests	5 days	Thu 8/14/08	Wed 8/20/08	20
25	integration tests: black box, white box, performance, regression tests	5 days	Thu 8/14/08	Wed 8/20/08	24SS,23
26	system tests: function, performance, interface, resource, security, portability, reliability, maintainability, safety	5 days	Thu 8/14/08	Wed 8/20/08	24SS,23
27	acceptance tests: capability and constraint tests	5 days	Thu 8/14/08	Wed 8/20/08	24SS
28	Standards: specify the pass/fail metrics for each test type (eg compliance levels)	5 days	Thu 8/21/08	Wed 8/27/08	22
29	V and V: Refine the workflow process to incorporate additional V & V testing.	5 days	Thu 8/28/08	Wed 9/3/08	28
30					
31	<b>Build System</b>	<b>132 days</b>	<b>Thu 5/1/08</b>	<b>Tue 11/11/08</b>	
32	update software distribution server	8 days	Mon 6/2/08	Fri 6/13/08	

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33	implement new package build mechanism	22 days	Thu 5/1/08	Mon 6/9/08	
34	convert to new package build mechanism (remove dependency on pacman)	5 days	Mon 6/16/08	Fri 6/20/08	33,32
35	enable support for 64-bit Linux	5 days	Tue 7/8/08	Mon 7/14/08	34SS,120
36	<b>VMs</b>	<b>132 days</b>	<b>Thu 5/1/08</b>	<b>Tue 11/11/08</b>	
37	create and configure distributable VMs	12 days	Thu 5/1/08	Fri 5/16/08	
38	deploy SW stack on VMs	5 days	Mon 8/4/08	Fri 8/8/08	37,34,35,207
39	(BB) support distributable VMs for new developers	67 days	Mon 8/11/08	Tue 11/11/08	38
40	<b>deploy automated, multi-platform testing system</b>	<b>88 days</b>	<b>Thu 5/1/08</b>	<b>Wed 9/10/08</b>	
41	investigate continous integration systems	12 days	Thu 5/1/08	Fri 5/16/08	
42	decide on continous integration system	0 days	Fri 5/16/08	Fri 5/16/08	41
43	install and configure initial testing system	15 days	Fri 6/20/08	Fri 7/11/08	42
44	configure test sytem for automated V&V	5 days	Thu 9/4/08	Wed 9/10/08	43,29
45	create better templates for SConstruct, SConscript, and Swig .i files	5 days	Tue 6/10/08	Mon 6/16/08	33
46	<b>implement Software Quality Assurance procedures relevant to build process</b>	<b>20 days</b>	<b>Mon 7/14/08</b>	<b>Fri 8/8/08</b>	
47	<b>within Ticket branch development</b>	<b>5 days</b>	<b>Mon 7/14/08</b>	<b>Fri 7/18/08</b>	
48	build warnings if coding standards check fails	2 days	Mon 7/14/08	Tue 7/15/08	43,34
49	build warnings if unittest doesn't satisfy DC3 coverage requirement	3 days	Wed 7/16/08	Fri 7/18/08	48
50	<b>within Trunk branch development (generally merge from Ticket branch)</b>	<b>5 days</b>	<b>Mon 7/21/08</b>	<b>Fri 7/25/08</b>	
51	build failure if unittest doesn't satisfy DC3 coverage requirement	2 days	Mon 7/21/08	Tue 7/22/08	49
52	build failure if coding standards check fails	3 days	Wed 7/23/08	Fri 7/25/08	51
53	<b>Nightly build of development trunk</b>	<b>5 days</b>	<b>Mon 7/28/08</b>	<b>Fri 8/1/08</b>	
54	any failures cause automatic 'Failed Nightly Build' ticket at high priority	5 days	Mon 7/28/08	Fri 8/1/08	52
55	<b>Production Release sanity check</b>	<b>5 days</b>	<b>Mon 8/4/08</b>	<b>Fri 8/8/08</b>	
56	any failure causes automatic 'Failed Production sanity check' ticket at high priority	2 days	Mon 8/4/08	Tue 8/5/08	54,32
57	auxiliary automatic notification to highest authority on failure (separate from ticket notification)	3 days	Wed 8/6/08	Fri 8/8/08	56
58	<b>Configuration Management: 'Build' upgrade</b>	<b>10 days</b>	<b>Mon 8/11/08</b>	<b>Fri 8/22/08</b>	<b>13,34</b>
59	Standards: specify requirement to version and archive build's provenance;	2 days	Mon 8/11/08	Tue 8/12/08	57
60	Configuration Management: define procedure to satisfy that requirement;	3 days	Wed 8/13/08	Fri 8/15/08	59
61	Configuration Management: implement its instantiation.	5 days	Mon 8/18/08	Fri 8/22/08	60
62					
63	<b>Database</b>	<b>168 days</b>	<b>Tue 6/24/08</b>	<b>Fri 2/13/09</b>	
64	<b>Provenance</b>	<b>43 days</b>	<b>Wed 7/23/08</b>	<b>Fri 9/19/08</b>	

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65	DC2 Policy capture	3 days	Wed 7/23/08	Fri 7/25/08	
66	DC3 provenance capture	10 days	Mon 8/11/08	Fri 8/22/08	=S+10 days,120
67	capturing full SW/HW info	10 days	Mon 8/25/08	Fri 9/5/08	
68	demonstrating re-creation of Calibrated Science Images	20 days	Mon 8/25/08	Fri 9/19/08	66
69	<b>Supporting data release pipelines</b>	<b>168 days</b>	<b>Tue 6/24/08</b>	<b>Fri 2/13/09</b>	
70	regularize the storage and access to image metadata	15 days	Mon 7/28/08	Fri 8/15/08	
71	support persistence and retrieval of nightly pipeline products and inputs	15 days	Mon 9/15/08	Fri 10/3/08	70
72	support persistence and retrieval of deep detection products and inputs	25 days	Mon 12/8/08	Fri 1/9/09	70
73	removing coral	16 days	Tue 6/24/08	Fri 7/18/08	
74	plan & setup database for DC3-nightly	20 days	Mon 8/4/08	Fri 8/29/08	4
75	plan & setup database for DC3-deepDet	20 days	Mon 9/1/08	Fri 9/26/08	74
76	image archive development, including template storage	25 days	Mon 8/18/08	Fri 9/19/08	70
77	research objectId synchronization between data releases	22 days	Tue 7/1/08	Thu 7/31/08	
78	implement objectId synchronization between data releases (not DC3)	22 days	Thu 1/15/09	Fri 2/13/09	77FS+21 days
79	<b>Database schema</b>	<b>65 days</b>	<b>Mon 11/17/08</b>	<b>Fri 2/13/09</b>	
80	extend schema to support DC3 nightly	5 days	Mon 11/17/08	Fri 11/21/08	162
81	extend schema to support DC3 deep detection	20 days	Mon 11/24/08	Fri 12/19/08	80
82	integrate MOPS schema with baseline schema	15 days	Mon 1/26/09	Fri 2/13/09	
83	<b>Expanding match algorithms</b>	<b>65 days</b>	<b>Mon 9/1/08</b>	<b>Fri 11/28/08</b>	
84	<b>MWI improvements</b>	<b>75 days</b>	<b>Tue 7/1/08</b>	<b>Tue 10/14/08</b>	
85	policy/data property integration	15 days	Mon 7/14/08	Fri 8/1/08	
86	exception improvements	15 days	Mon 7/21/08	Fri 8/8/08	
87	persistence framework refinement	10 days	Wed 10/1/08	Tue 10/14/08	
88	shared pointer improvements	10 days	Mon 7/14/08	Fri 7/25/08	
89	SDQA architecture support	20 days	Tue 7/1/08	Thu 7/31/08	
90					
91	<b>Event Framework</b>	<b>105 days</b>	<b>Thu 5/1/08</b>	<b>Fri 10/3/08</b>	
92	Develop usecases	12 days	Thu 5/1/08	Fri 5/16/08	
93	Update event packages	12 days	Tue 5/27/08	Fri 6/13/08	92
94	Implement configurable on-the-fly event processing (1)	17 days	Tue 5/27/08	Fri 6/20/08	93SS
95	Implement configurable on-the-fly event processing (2)	30 days	Mon 6/23/08	Mon 8/18/08	94
96	Event system failover	6 days	Tue 8/19/08	Tue 8/26/08	95
97	Configure event monitoring for fault system	10 days	Mon 9/8/08	Fri 9/19/08	96,122
98	Configure event monitoring for log analysis	10 days	Mon 9/22/08	Fri 10/3/08	97
99					
100	<b>Middleware Interface</b>	<b>10 days</b>	<b>Mon 8/4/08</b>	<b>Fri 8/15/08</b>	
101	Merge trace and logging	10 days	Mon 8/4/08	Fri 8/15/08	35,85
102					

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ID	Task Name	Duration	Start	Finish	Predecessors
103	<b>Pipeline Harness extensions ¶</b>	<b>74 days</b>	<b>Thu 5/1/08</b>	<b>Thu 8/21/08</b>	
104	Develop usecases	12 days	Thu 5/1/08	Fri 5/16/08	
105	<b>Complete design for data sharing among Slices</b>	<b>15 days</b>	<b>Tue 5/27/08</b>	<b>Mon 6/16/08</b>	
106	<b>Support use cases for interSlice communication</b>	<b>15 days</b>	<b>Tue 5/27/08</b>	<b>Mon 6/16/08</b>	
107	identify neighbors of a Slice: known in advance, or dynamic?	5 days	Tue 5/27/08	Mon 6/2/08	104
108	identify data types that are transmitted in each use case	5 days	Tue 6/3/08	Mon 6/9/08	107
109	Determine level at which communication occurs	5 days	Tue 6/10/08	Mon 6/16/08	108
110	<b>Implement data sharing mechanisms</b>	<b>22 days</b>	<b>Tue 6/17/08</b>	<b>Thu 7/17/08</b>	
111	Work to support communication of general serializable types over MPI	22 days	Tue 6/17/08	Thu 7/17/08	109
112	Develop mechanisms for identifying/accessing	20 days	Fri 7/18/08	Thu 8/21/08	111
113					
114	<b>Fault Tolerance</b>	<b>79 days</b>	<b>Mon 6/16/08</b>	<b>Fri 10/3/08</b>	
115	Fault tolerance plan	29 days	Mon 6/16/08	Thu 7/31/08	
116	Improving exception handling	20 days	Mon 9/8/08	Fri 10/3/08	97SS,115
117					
118	<b>Pipeline Orchestration Layer</b>	<b>85 days</b>	<b>Thu 5/1/08</b>	<b>Fri 9/5/08</b>	
119	Develop usecases	12 days	Thu 5/1/08	Fri 5/16/08	
120	fill out the design of the orchestration layer, identify the components for DC3	10 days	Tue 5/27/08	Mon 7/7/08	119
121	implement an orchestration layer	30 days	Mon 7/21/08	Fri 8/29/08	120,43
122	"life-support" services	5 days	Mon 9/1/08	Fri 9/5/08	121
123					
124	<b>Applications</b>	<b>216 days?</b>	<b>Mon 6/2/08</b>	<b>Tue 3/31/09</b>	
125	<b>Applications Framework</b>	<b>59 days</b>	<b>Mon 6/9/08</b>	<b>Fri 8/29/08</b>	
126	update from DC2	59 days	Mon 6/9/08	Fri 8/29/08	
127	<b>Nightly Processing</b>	<b>129 days</b>	<b>Mon 6/2/08</b>	<b>Fri 11/28/08</b>	
128	association pipeline improvements	<b>129 days</b>	<b>Mon 6/2/08</b>	<b>Fri 11/28/08</b>	
129	association pipeline improvements to DC2	111 days	Mon 6/2/08	Tue 11/4/08	
130	add proper motion, color dependent refraction and source listing for clients	40 days	Mon 10/6/08	Fri 11/28/08	
131	instrument signature removal	<b>129 days</b>	<b>Mon 6/2/08</b>	<b>Fri 11/28/08</b>	
132	implement infrastructure & standard astronomical CCD image processing	89 days	Mon 6/2/08	Fri 10/3/08	
133	implement selected additional signature removal, eg crosstalk	40 days	Mon 10/6/08	Fri 11/28/08	132
134	generate usable PSF model for DC3 tasks	69 days	Mon 6/30/08	Fri 10/3/08	
135	produce negotiated diagnostic metrics for use by SDQA	64 days	Tue 9/2/08	Fri 11/28/08	
136	MOPS	<b>64 days</b>	<b>Tue 9/2/08</b>	<b>Fri 11/28/08</b>	
137	tweaks to nightly MOPS	64 days	Tue 9/2/08	Fri 11/28/08	
138	integration of DayMOPS into LSST	64 days	Tue 9/2/08	Fri 11/28/08	
139	improve WCS determination	40 days	Mon 10/6/08	Fri 11/28/08	
140	improve basis functions	40 days	Mon 10/6/08	Fri 11/28/08	

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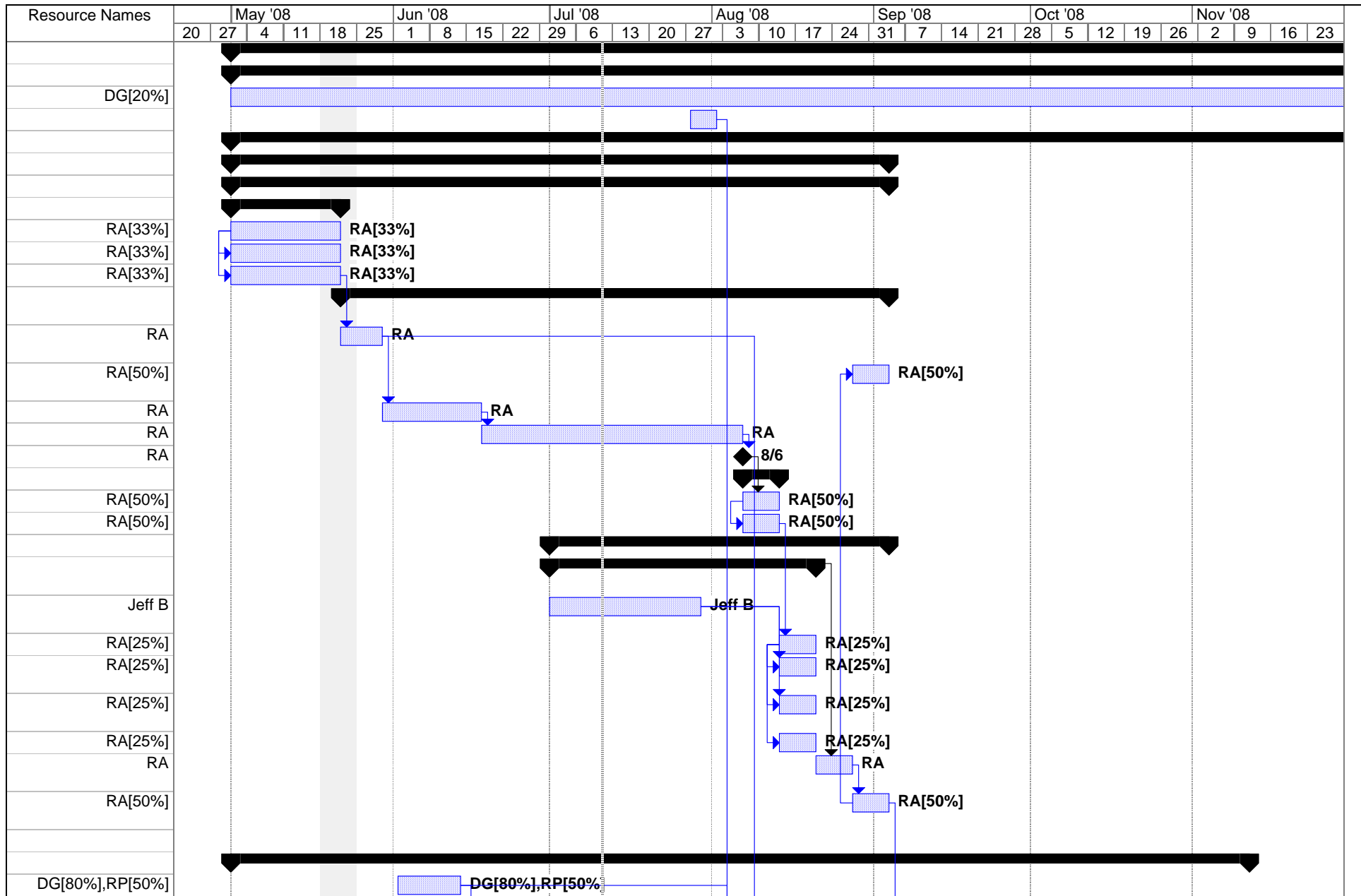
ID	Task Name	Duration	Start	Finish	Predecessors
141	source characterization for stars and galaxies	40 days	Mon 10/6/08	Fri 11/28/08	
142	<b>Data Release Processing</b>	<b>195 days?</b>	<b>Tue 7/1/08</b>	<b>Tue 3/31/09</b>	
143	regularize the storage and access to image metadata*	15 days	Mon 7/28/08	Fri 8/15/08	
144	image coaddition: image resampling/stacking/combining	68 days	Tue 7/1/08	Fri 10/3/08	
145	image retrieval service	25 days	Mon 7/21/08	Fri 8/22/08	
146	photometric calibration: simulate pipeline algorithms, handle time dependences	90 days	Tue 9/2/08	Mon 1/5/09	
147	deep detection	<b>130 days?</b>	<b>Wed 10/1/08</b>	<b>Tue 3/31/09</b>	
148	detection in coadded image	89 days	Wed 10/1/08	Mon 2/2/09	
149	psf stellar photometry	109 days	Wed 10/1/08	Mon 3/2/09	
150	deblending confused sources	130 days	Wed 10/1/08	Tue 3/31/09	
151	galaxy (extended source) photometry framework	130 days?	Wed 10/1/08	Tue 3/31/09	
152	background estimation	87 days?	Mon 12/1/08	Tue 3/31/09	
153	Implement algorithm for co-adding images to produce a template image for use in the ima	131 days	Fri 8/1/08	Fri 1/30/09	
154	multifit: shape measurements and photometry for galaxies	109 days	Wed 10/1/08	Mon 3/2/09	
155	astrometric calibration: determine low order terms	130 days	Wed 10/1/08	Tue 3/31/09	
156	photometric calibration: run algorithms against CFHT data	62 days	Mon 1/5/09	Tue 3/31/09	
157	SDQA diagnostic generation	65 days	Tue 9/2/08	Mon 12/1/08	
158	<b>Database</b>	<b>123 days</b>	<b>Tue 6/10/08</b>	<b>Fri 11/28/08</b>	
159	integrate MOPS schema with baseline schema*	15 days	Tue 6/10/08	Mon 6/30/08	
160	integrate SDQA persistence into schema	20 days	Mon 11/3/08	Fri 11/28/08	
161	<b>SDQA</b>	<b>194 days</b>	<b>Mon 6/2/08</b>	<b>Fri 2/27/09</b>	
162	determine SDQA architecture	89 days	Mon 6/2/08	Fri 10/3/08	
163	Implement one or more use case end to end	170 days	Mon 7/7/08	Fri 2/27/09	
164	<b>Data</b>	<b>86 days?</b>	<b>Mon 6/2/08</b>	<b>Tue 9/30/08</b>	
165	created simulated data for the difference, template, deep detection and astrometry applica	65 days	Tue 7/1/08	Tue 9/30/08	
166	provide CFHT data	42 days?	Mon 6/2/08	Tue 9/2/08	
167					
168	<b>non-DC3 activities</b>	<b>297 days</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>	
169	<b>DB group</b>	<b>297 days</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>	
170	improve trac db documentation for PDR	20 days	Mon 11/3/08	Fri 11/28/08	
171	<b>management</b>	<b>297 days</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>	
172	hiring	54 days	Tue 7/1/08	Mon 9/15/08	
173	telecons	297 days	Thu 5/1/08	Tue 6/30/09	
174	others unclassified (SOW, status reports, planning etc)	297 days	Thu 5/1/08	Tue 6/30/09	
175	ADASS (prep, attending)	15 days	Mon 9/22/08	Fri 10/10/08	
176	VLDB'09 prep	15 days	Mon 1/26/09	Fri 2/13/09	
177	Possibly CIDR'09 prep	15 days	Thu 7/24/08	Wed 8/13/08	
178	coordinate defining common LSST vocabulary (UCDs)	297 days	Thu 5/1/08	Tue 6/30/09	

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179	schema browser	37 days	Fri 5/1/09	Mon 6/22/09	
180	<b>sciDB</b>	<b>297 days</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>	
181	initiating sciDB	37 days	Thu 5/1/08	Mon 6/30/08	
182	sciDB steering and building community	99 days	Thu 5/1/08	Tue 9/30/08	
183	sciDB design and implementation - I	44 days	Tue 7/1/08	Mon 9/1/08	
184	sciDB design and implementation - II (change in personnel)	216 days	Tue 9/2/08	Tue 6/30/09	183
185	outreach, fund raising and proposals (DoE, NSF, other labs)	271 days	Mon 6/16/08	Tue 6/30/09	
186	<b>Large scale tests</b>	<b>297 days</b>	<b>Thu 5/1/08</b>	<b>Tue 6/30/09</b>	
187	interact with sciCollab chairs, refresh list of common queries	15 days	Tue 7/1/08	Tue 7/22/08	
188	interact with sciCollab chairs, refresh list of common queries	15 days	Mon 12/1/08	Fri 12/19/08	
189	research new db technologies	297 days	Thu 5/1/08	Tue 6/30/09	
190	work with UW on scheduling bigtable tests	43 days	Mon 6/2/08	Thu 7/31/08	
191	prepare schema for bigtable tests	27 days	Tue 7/1/08	Fri 8/8/08	
192	assist google intern with tests, alternative: run hypertable tests	65 days	Fri 8/8/08	Fri 11/7/08	191
193	preparing testbed for scalability tests, incl sim data	22 days	Tue 7/1/08	Thu 7/31/08	
194	test gridSQL	43 days	Fri 8/1/08	Tue 9/30/08	
195	run large scale tests	43 days	Fri 8/1/08	Tue 9/30/08	193
196	tune/optimize large scale tests (1)	43 days	Mon 11/3/08	Wed 12/31/08	195FS+23 days
197	rerun large scale tests, increase complexity (queries, concurrency)	42 days	Thu 1/1/09	Fri 2/27/09	196
198	tune/optimize large scale tests (2)	44 days	Mon 3/2/09	Thu 4/30/09	197
199	write document refining baseline db architecture	15 days	Fri 5/1/09	Thu 5/21/09	198
200	<b>investigate internal file format for image pixels</b>	<b>86 days</b>	<b>Fri 8/1/08</b>	<b>Fri 11/28/08</b>	
201	<b>XLDB2</b>	<b>76 days</b>	<b>Tue 7/1/08</b>	<b>Wed 10/15/08</b>	
202	XLDB2 prep	63 days	Tue 7/1/08	Fri 9/26/08	
203	XLDB2	2 days	Mon 9/29/08	Tue 9/30/08	202
204	XLDB2 report	11 days	Wed 10/1/08	Wed 10/15/08	203
205					
206	<b>NCSA</b>	<b>10 days</b>	<b>Mon 7/21/08</b>	<b>Fri 8/1/08</b>	
207	Security Document	10 days	Mon 7/21/08	Fri 8/1/08	43

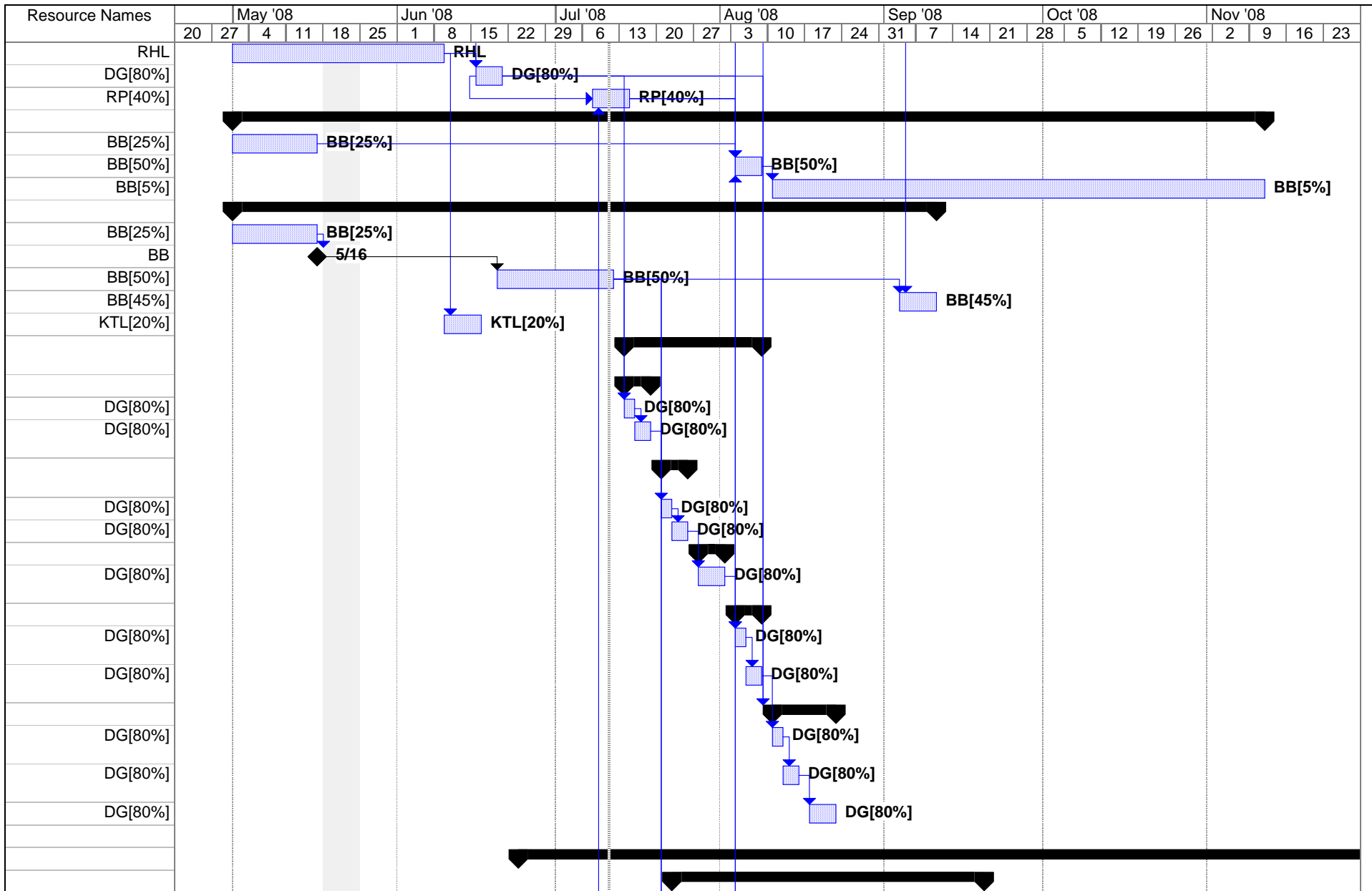
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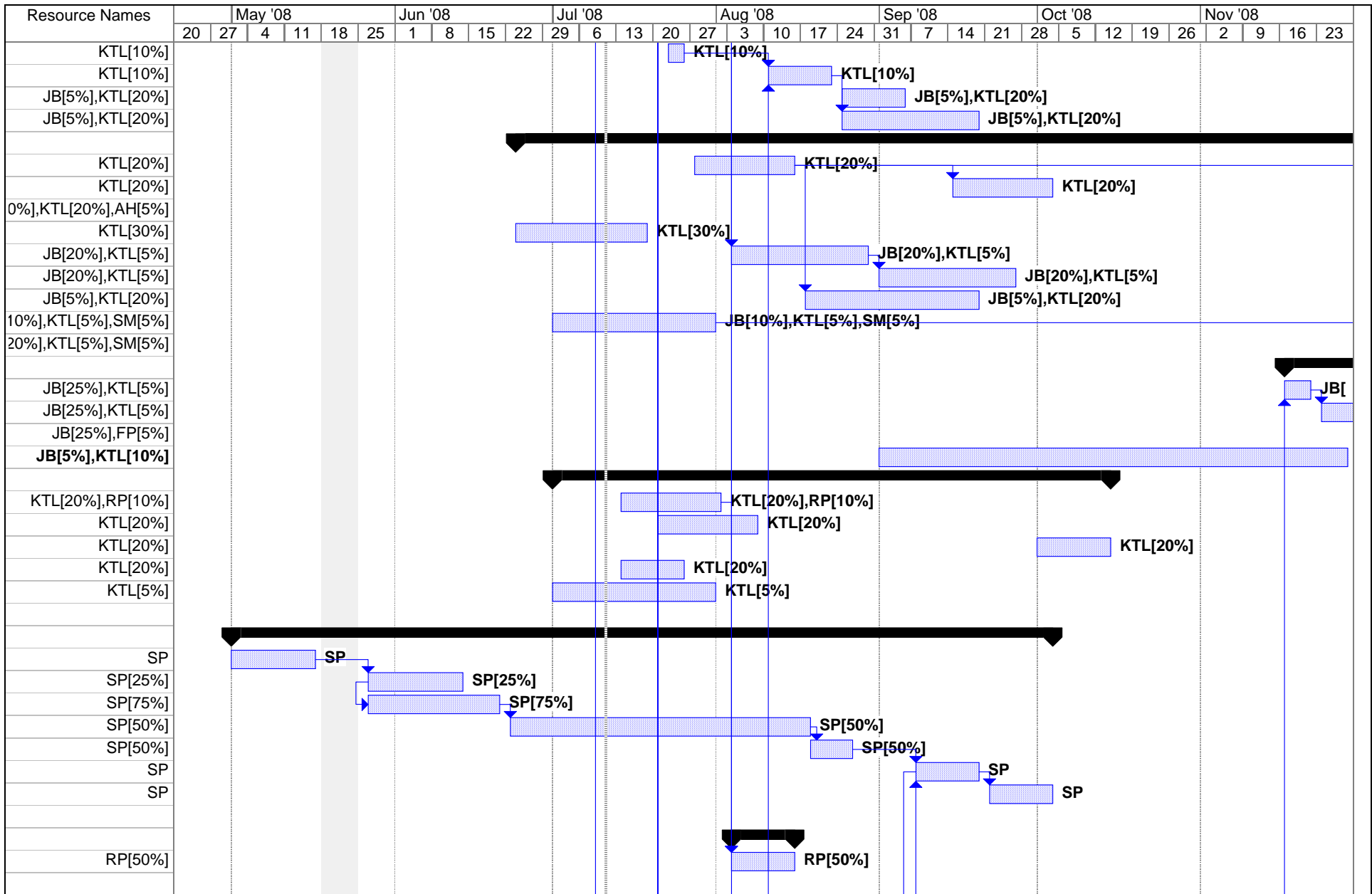
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- Task Milestone
- Split Summary
- Progress Project Summary
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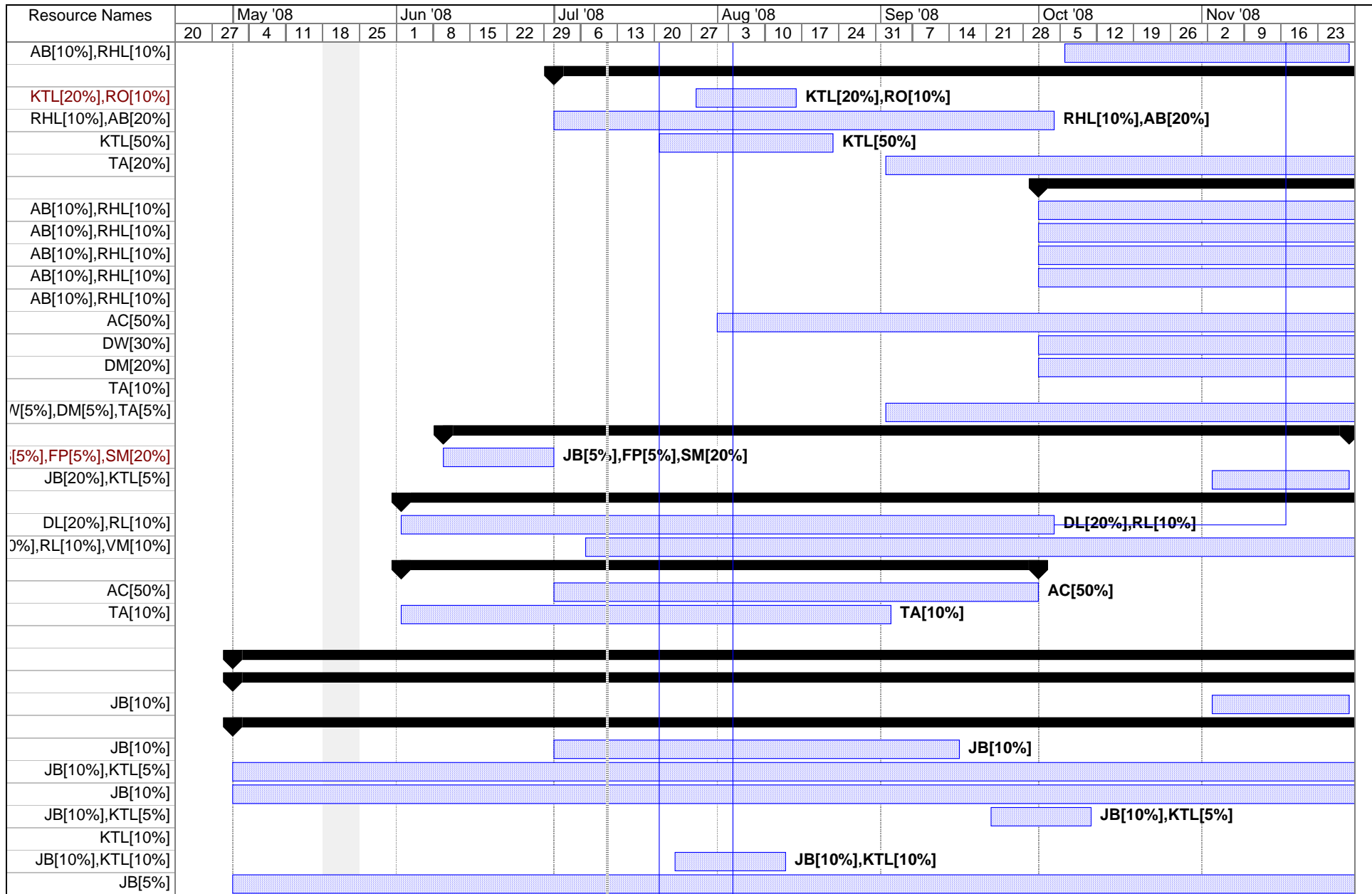
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Split		Summary		External Milestone	
Progress		Project Summary		Deadline	



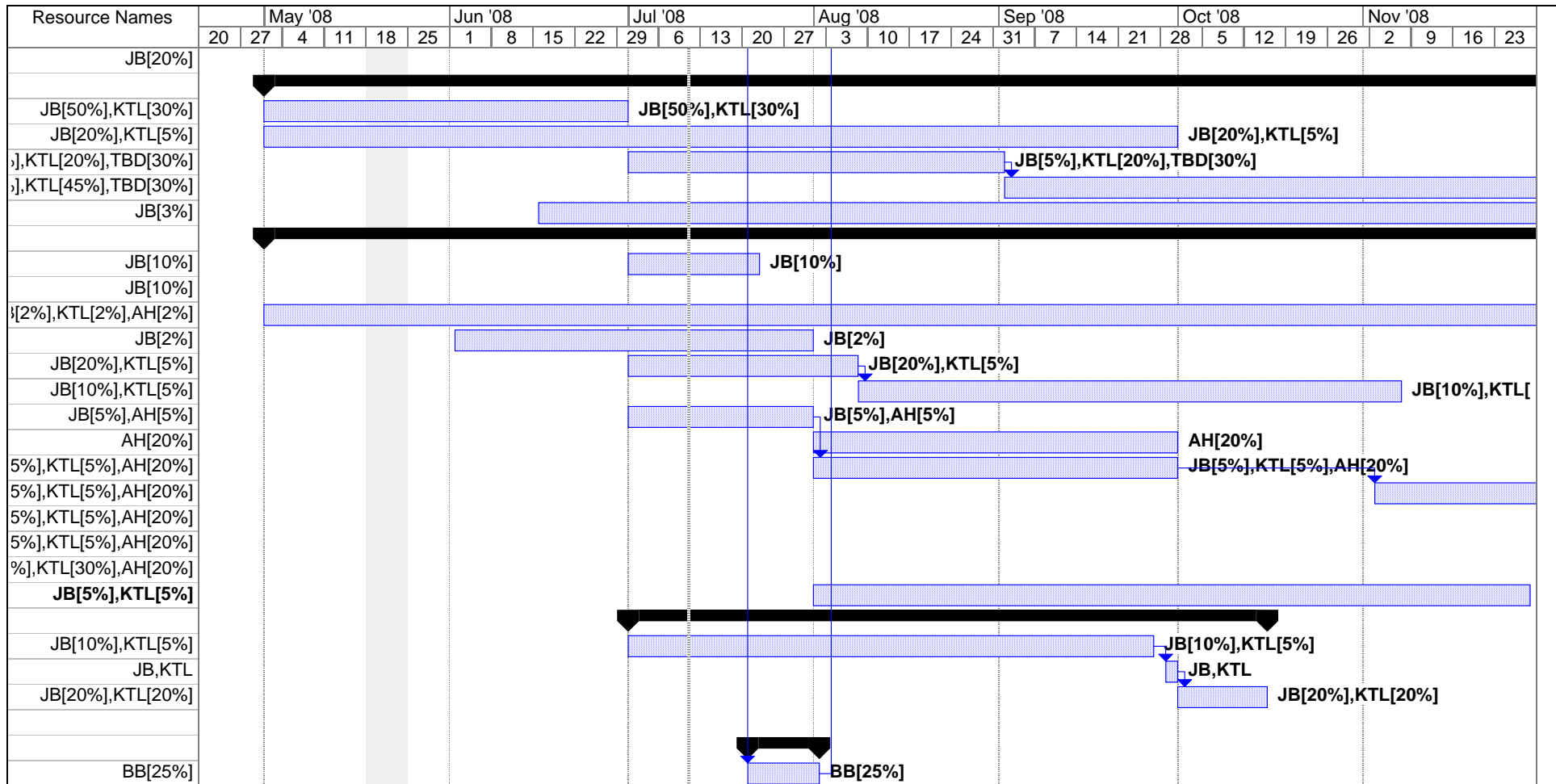
Project: LSST-DC3-v1.7  
Date: Fri 7/11/08

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
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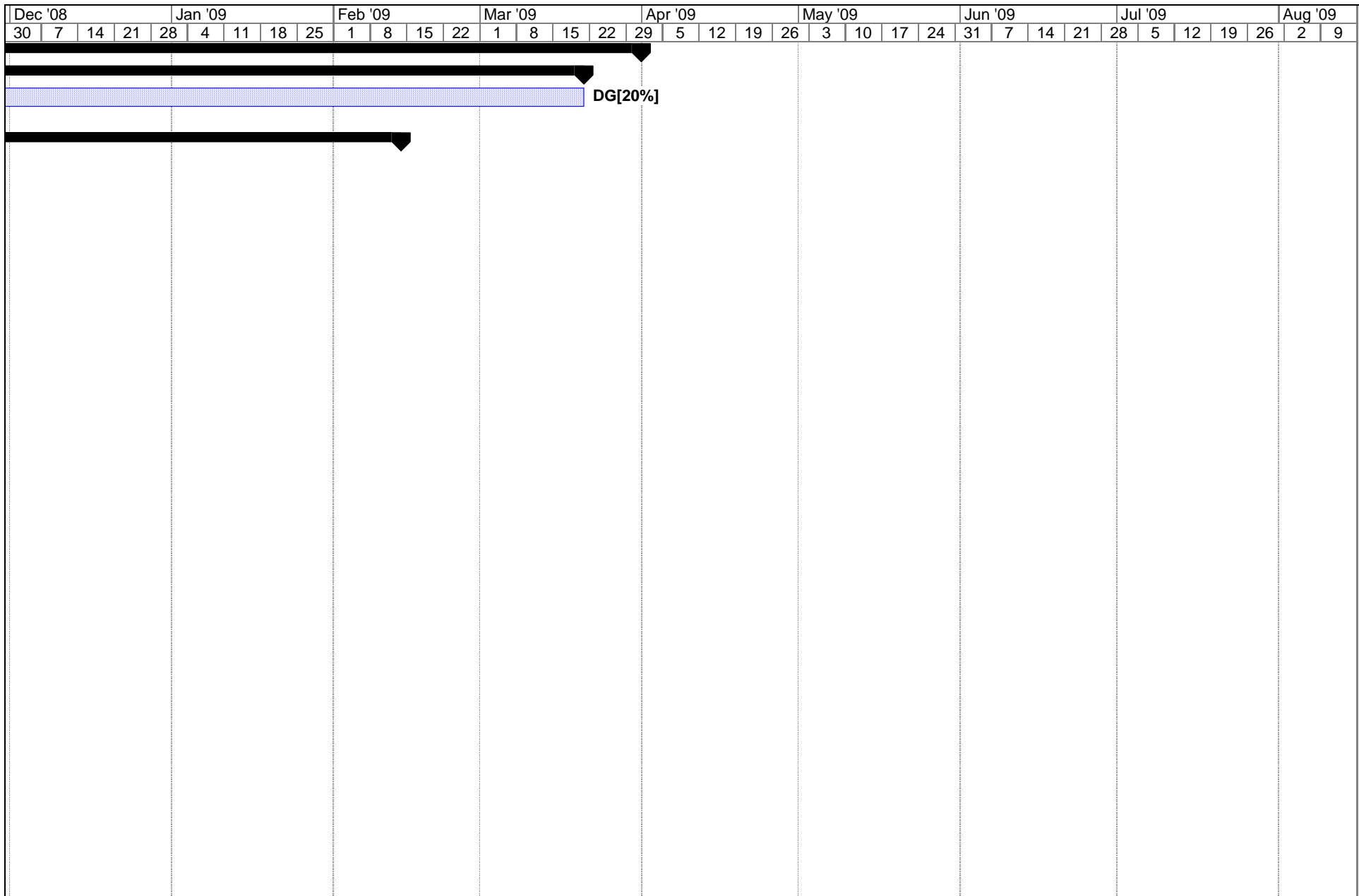


Project: LSST-DC3-v1.7  
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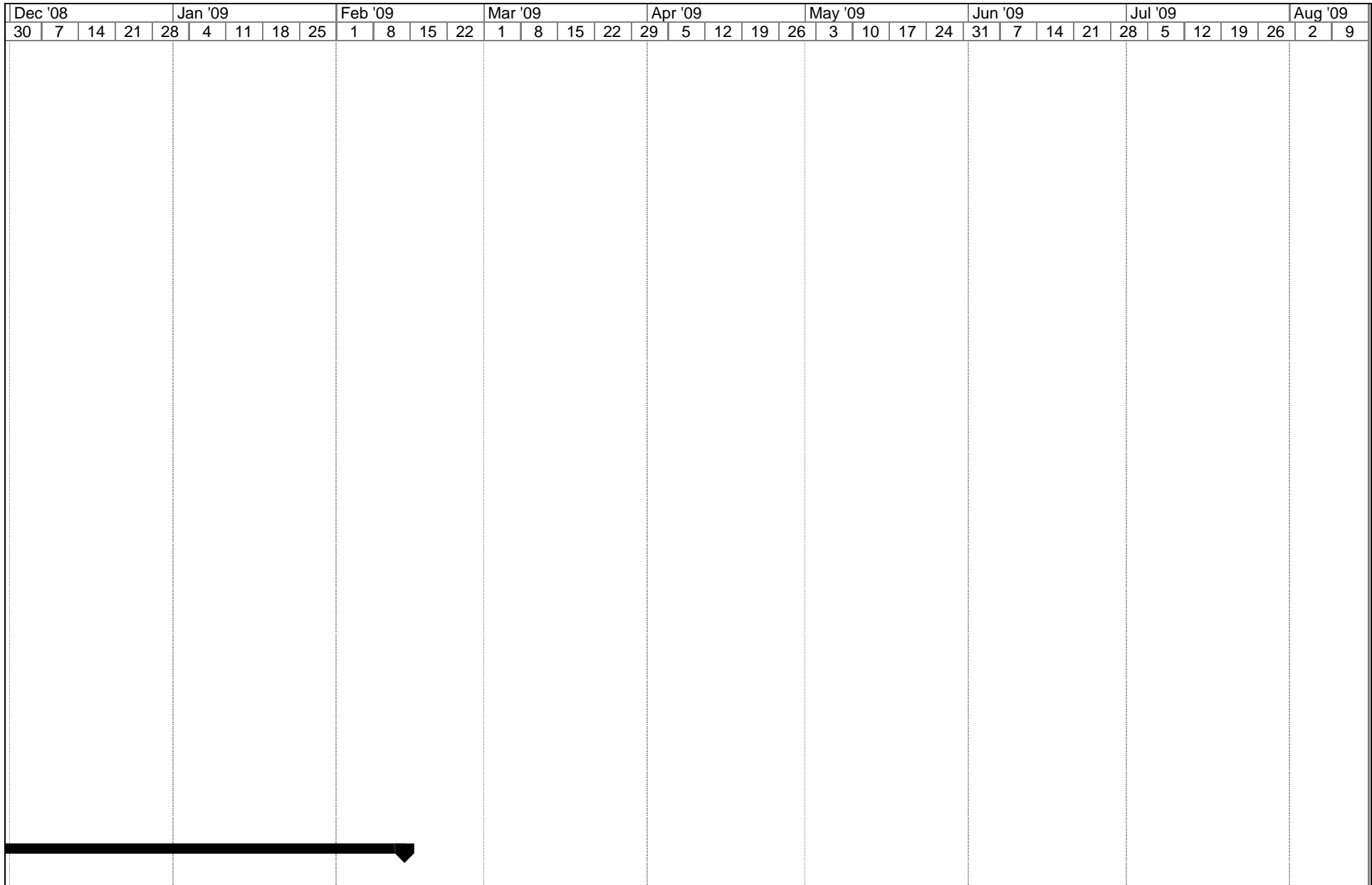
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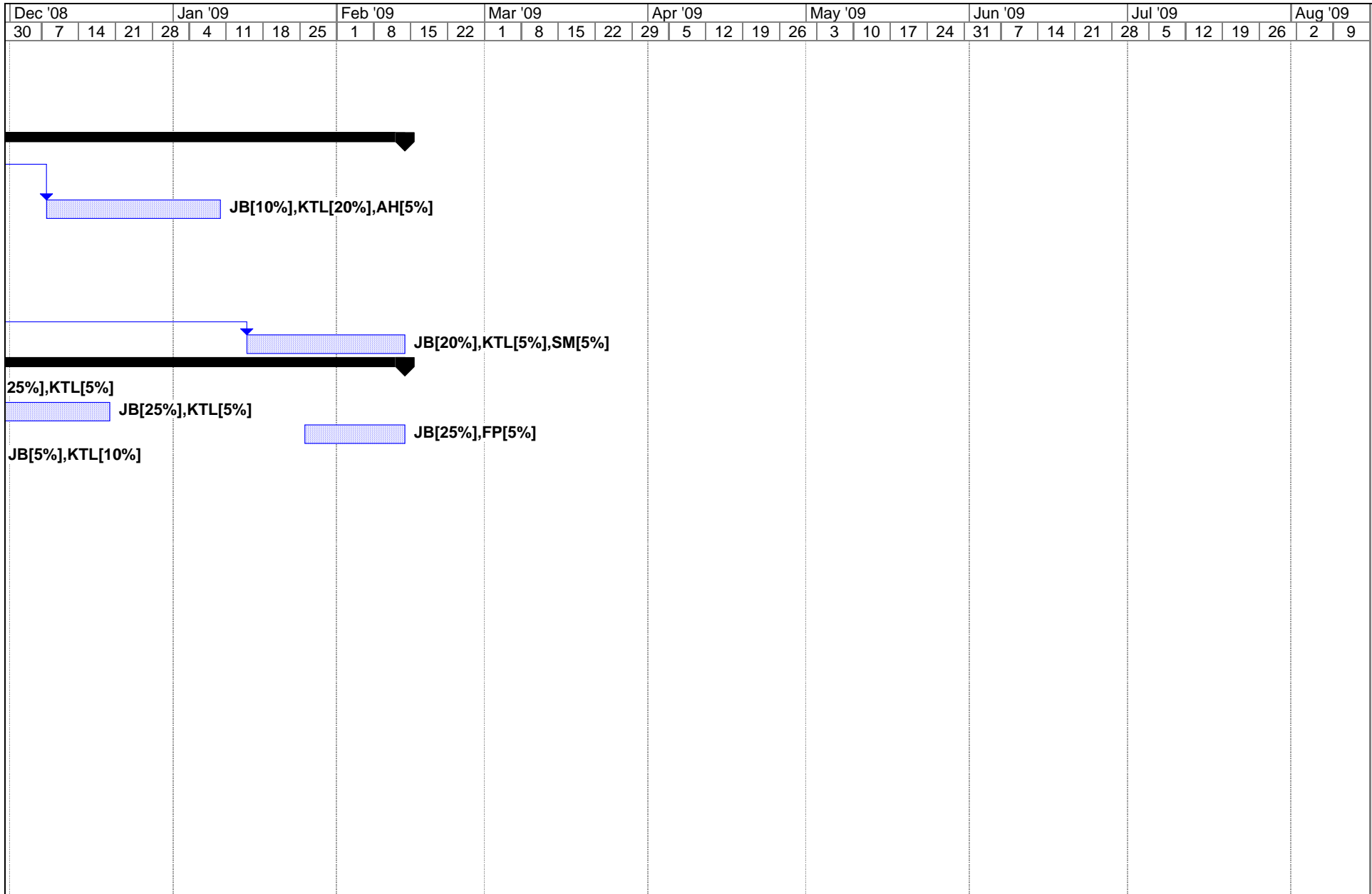
Project: LSST-DC3-v1.7 Date: Fri 7/11/08	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	



Project: LSST-DC3-v1.7 Date: Fri 7/11/08	Task	Milestone	External Tasks
	Split	Summary	External Milestone
	Progress	Project Summary	Deadline



Project: LSST-DC3-v1.7 Date: Fri 7/11/08	Task		Milestone		External Tasks	
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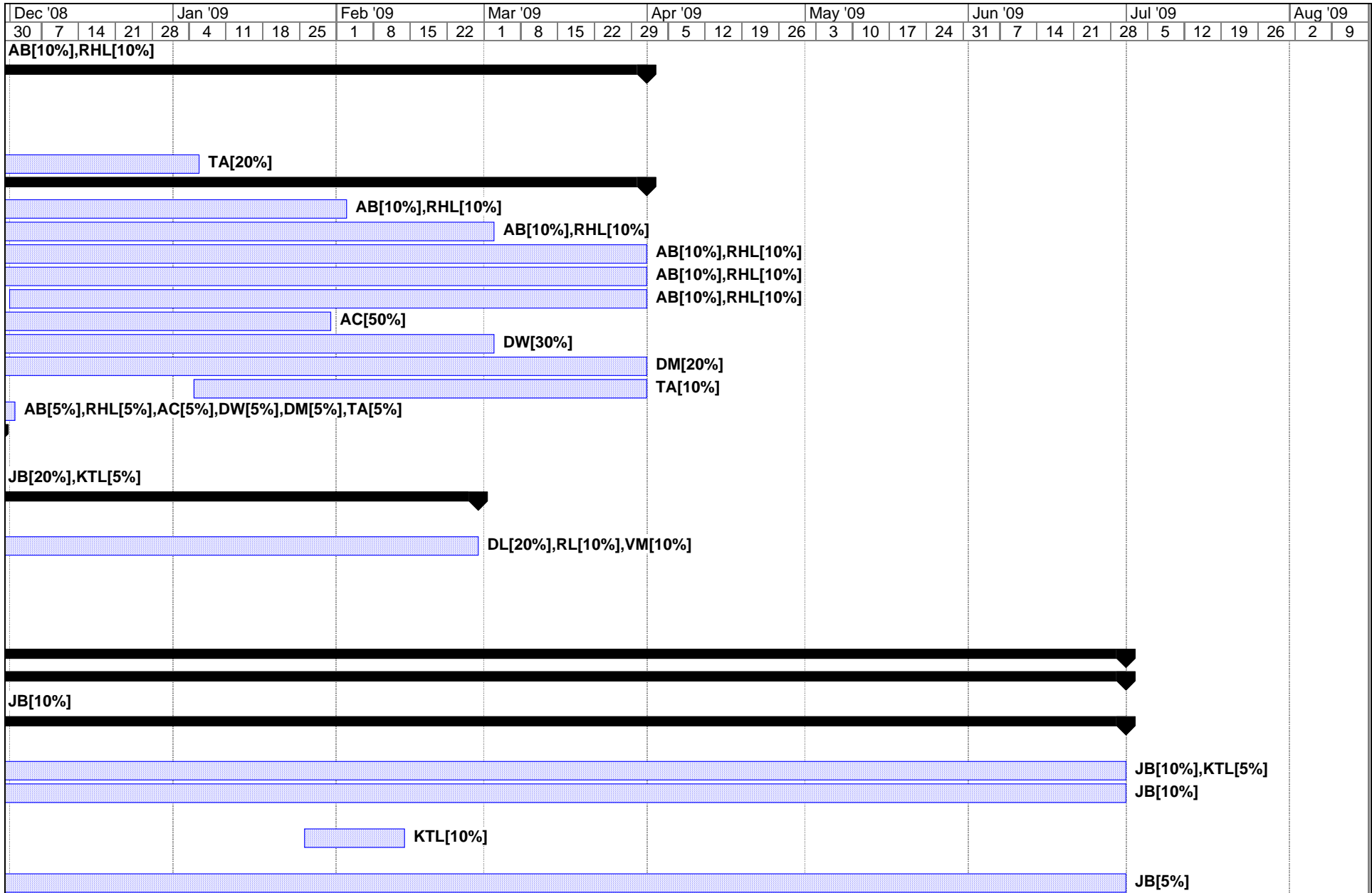


Project: LSST-DC3-v1.7 Date: Fri 7/11/08	Task 	Milestone 	External Tasks 
	Split 	Summary 	External Milestone 
	Progress 	Project Summary 	Deadline 

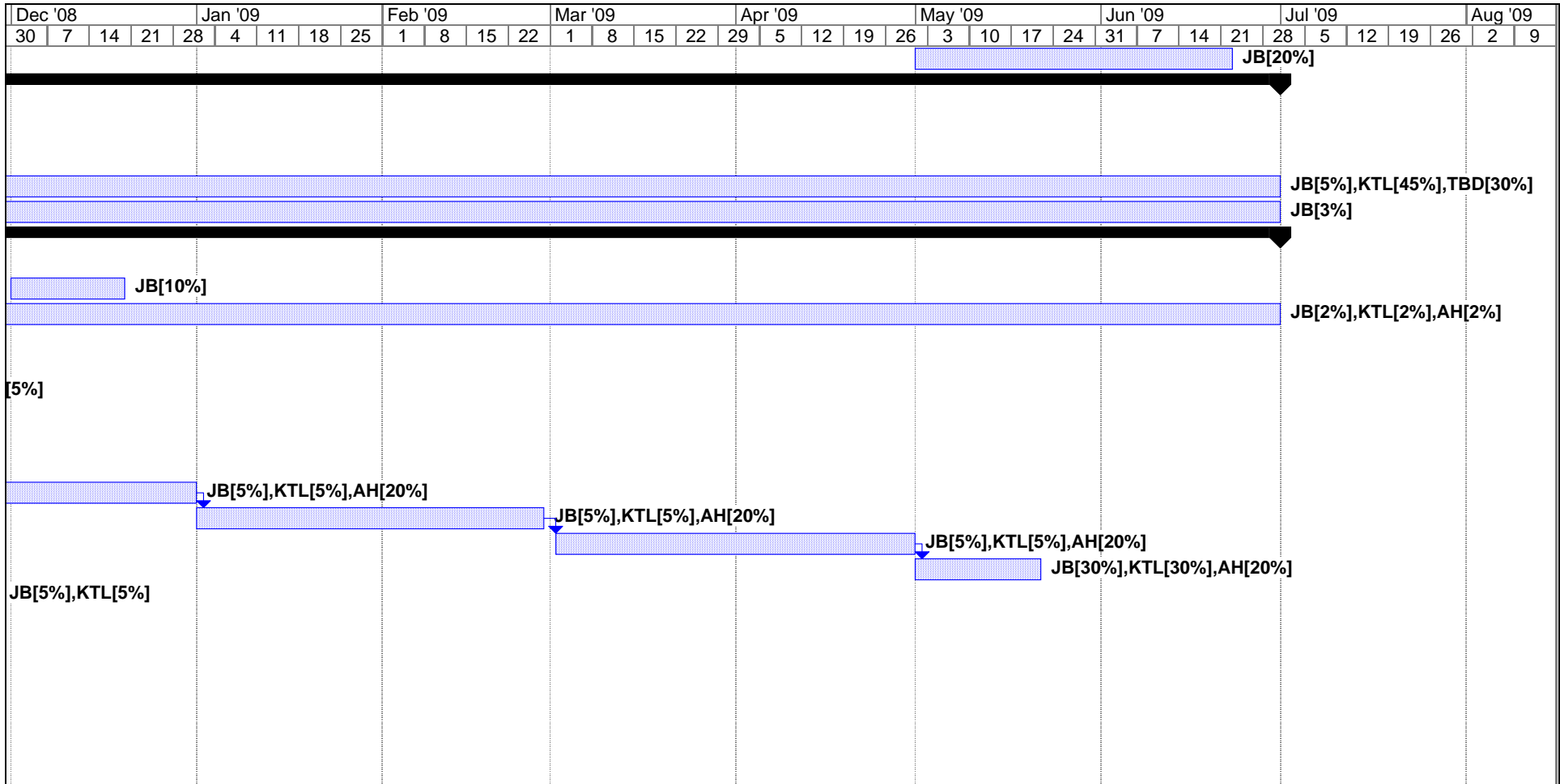


Project: LSST-DC3-v1.7 Date: Fri 7/11/08	Task 	Milestone 	External Tasks 
	Split 	Summary 	External Milestone 
	Progress 	Project Summary 	Deadline 





Project: LSST-DC3-v1.7 Date: Fri 7/11/08	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	



Project: LSST-DC3-v1.7  
Date: Fri 7/11/08

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