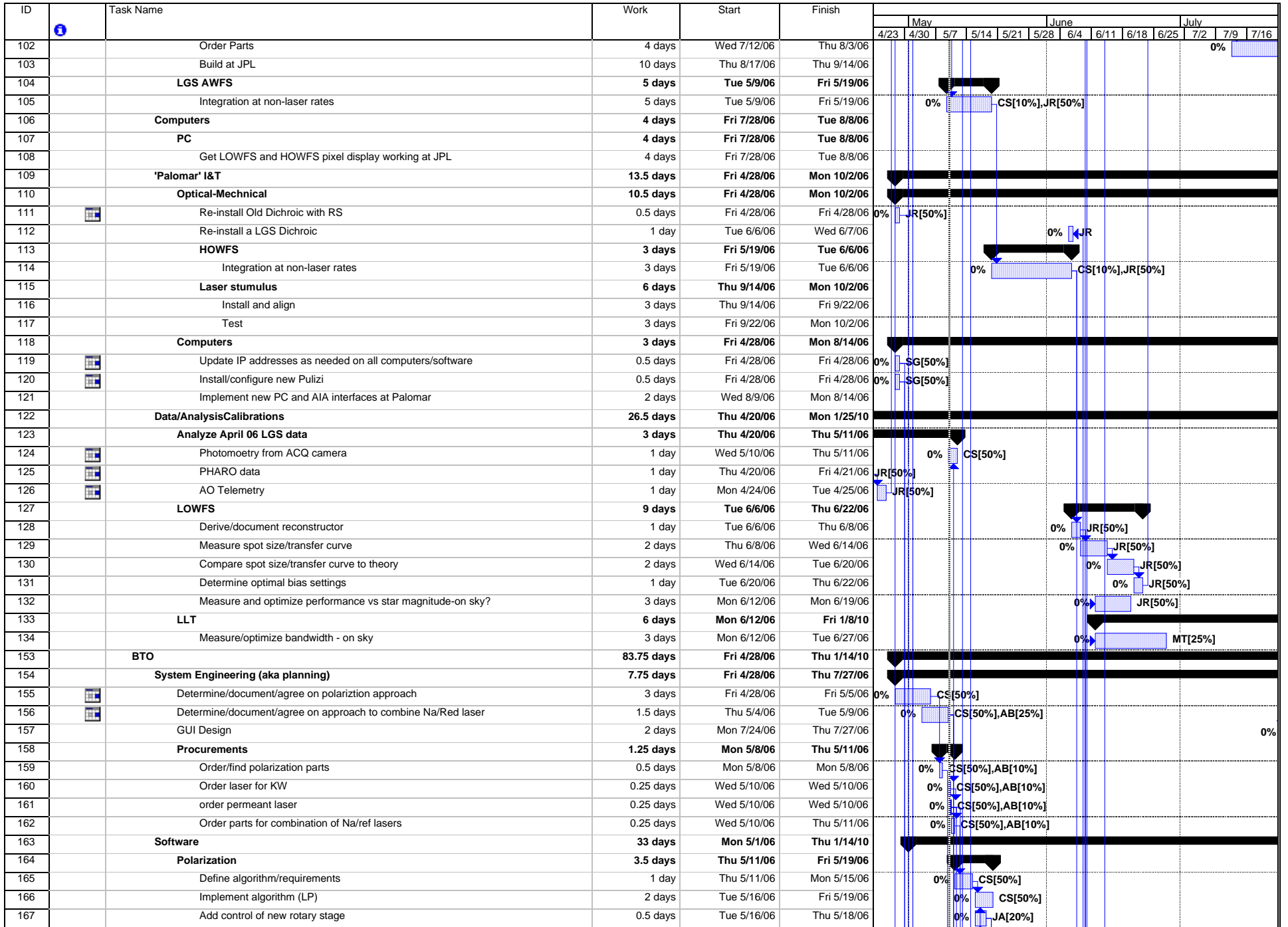


ID	Task Name	Work	Start	Finish	Gantt Chart													
					May					June					July			
					4/23	4/30	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	
0	palm_lgs	821.5 days	Wed 10/1/03	Tue 8/31/10														
1	AO System	633.6 days	Thu 4/20/06	Tue 8/31/10														
2	Systems Engineering and Documentation	13.5 days	Wed 5/3/06	Thu 1/7/10														
3	LGS HOWFS issues	8.5 days	Wed 5/3/06	Tue 6/27/06														
4	pixel scale	2 days	Tue 6/13/06	Fri 6/16/06														
5	integration at non-laser rates	3 days	Wed 5/3/06	Tue 5/9/06														
6	adj. field stop/spatial filter	2 days	Mon 6/19/06	Thu 6/22/06														
7	acq methods	1.5 days	Fri 6/23/06	Tue 6/27/06														
9	Software	190.1 days	Tue 4/25/06	Thu 4/22/10														
16	AOCP	0.2 days	Mon 5/15/06	Fri 1/1/10														
19	Motion Control	0.2 days	Mon 5/15/06	Fri 1/1/10														
20	Update motor names	0.2 days	Mon 5/15/06	Tue 5/16/06														
22	HWFP	24.5 days	Fri 5/12/06	Tue 1/26/10														
23	Improve Faint Guide Star Performance	7 days	Fri 5/12/06	Wed 6/21/06														
24	Set centroid fllux less then thresh to thresh	3 days	Fri 5/12/06	Mon 6/12/06														
25	Implement	2 days	Fri 5/12/06	Thu 5/25/06														
26	test at JPL	0.5 days	Wed 6/7/06	Thu 6/8/06														
27	Test at Palomar	0.5 days	Fri 6/9/06	Mon 6/12/06														
28	Set centroid fllux less then thresh to avg thresh	4 days	Fri 5/26/06	Wed 6/21/06														
29	Implement	3 days	Fri 5/26/06	Thu 6/15/06														
30	test at JPL	0.5 days	Fri 6/16/06	Mon 6/19/06														
31	Test at Palomar	0.5 days	Tue 6/20/06	Wed 6/21/06														
38	Telemetry Subsystem	24 days	Mon 6/12/06	Thu 1/21/10														
42	db_find takes 5.5 seconds to extract last video image	2 days	Mon 6/12/06	Thu 6/15/06														
44	AO User Interface (TAO)	122.4 days	Tue 4/25/06	Thu 4/22/10														
45	Fix late time messages from TCS status	0.4 days	Tue 4/25/06	Tue 4/25/06														
47	Control	28 days	Mon 5/1/06	Thu 1/28/10														
49	Add support for LGS mode	15 days	Mon 6/12/06	Fri 9/1/06														
51	external control of acop/bto/tcs/pharo from IDL	3 days	Mon 5/1/06	Fri 5/19/06														
52	Automation	23 days	Mon 5/22/06	Tue 2/9/10														
53	Compute/load pixel offset maps for LOWFS	3 days	Mon 5/22/06	Fri 6/9/06														
79	IDL/Matlab interface	14 days	Mon 6/12/06	Fri 7/7/06														
80	Ability to call aods from IDL	5 days	Fri 6/16/06	Thu 6/29/06														
81	Ability to communicate with TAO from IDL	3 days	Fri 6/30/06	Fri 7/7/06														
82	Flat map improvements	2 days	Mon 6/12/06	Thu 6/15/06														
83	Improve LGS focus script/speed	2 days	Thu 6/22/06	Mon 7/3/06														
84	Setup CVS repository	2 days	Mon 6/12/06	Wed 6/21/06														
85	System crashes/problems (not tracked down to a sub-system)	357 days	Wed 4/26/06	Tue 8/31/10														
86	Crash when running in dual star mode and close/open DM	5 days	Fri 5/12/06	Fri 6/9/06														
87	Late Error messages when running slow (<-200Hz)	5 days	Mon 7/10/06	Fri 7/21/06														
88	Check if TTM positions working correctly in db	1 day	Wed 4/26/06	Thu 4/27/06														
95	Optical-Mechanical	29 days	Mon 5/8/06	Thu 9/14/06														
96	Dichroic	3 days	Mon 5/8/06	Fri 5/19/06														
97	Get new dichroic/decide what to do	2 days	Mon 5/8/06	Fri 5/19/06														
98	Measure current device	0.5 days	Mon 5/8/06	Fri 5/12/06														
99	Measure new one if it arrives	0.5 days	Mon 5/8/06	Fri 5/12/06														
100	Stimulus	21 days	Thu 6/22/06	Thu 9/14/06														
101	Design	7 days	Thu 6/22/06	Wed 7/12/06														



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168	Laser Focus	3 days	Wed 5/10/06	Mon 5/22/06														
169	Add control of motor for laser focus	0.5 days	Thu 5/18/06	Mon 5/22/06														
170	Define algorithm/requirements	0.5 days	Wed 5/10/06	Thu 5/11/06														
171	Impelemnt Algorithm (LP)	2 days	Tue 5/16/06	Fri 5/19/06														
172	Test control of Zaber motor	1 day	Mon 5/1/06	Fri 5/12/06														
173	Clean up proc_track	1 day	Mon 5/15/06	Mon 5/15/06														
174	make minimum flux levels changeable from command line	1 day	Tue 5/23/06	Mon 5/29/06														
175	Check safety code is working	1 day	Tue 5/30/06	Mon 6/5/06														
176	implement leaky integrator for HS loop	1 day	Tue 6/6/06	Mon 6/12/06														
177	save/restore all values	0.5 days	Tue 6/13/06	Thu 6/15/06														
178	Make it self-erecting	4 days	Thu 6/1/06	Mon 6/12/06														
179	long term fix for drivers	10 days	Mon 5/8/06	Fri 6/2/06														
183	talk to tao for TCS information	2 days	Thu 6/15/06	Thu 6/29/06														
185	Computer	3.5 days	Wed 5/3/06	Mon 1/4/10														
186	Fix failure to boot	1 day	Wed 5/3/06	Mon 5/8/06														
188	Replace current disk with solid date disk	1.5 days	Tue 5/9/06	Thu 5/11/06														
189	Optical Mechanical	8 days	Mon 5/8/06	Fri 5/19/06														
190	Design mount for 1/4 waveplate in LLT	3 days	Mon 5/8/06	Fri 5/12/06														
191	Make mount for 1/4 waveplate in LLT	5 days	Fri 5/12/06	Fri 5/19/06														
192	Palomar I&T	31.5 days	Wed 5/10/06	Fri 6/16/06														
193	Re-install BTO computer	0 days	Fri 5/12/06	Fri 5/12/06														
194	Polarization	7 days	Wed 5/10/06	Mon 5/22/06														
195	Install 1/4 waveplate in LLT	1 day	Fri 5/19/06	Mon 5/22/06														
196	Install parts and cabling to computer/controller in Coude	3 days	Fri 5/12/06	Tue 5/16/06														
197	Test software control	2 days	Thu 5/18/06	Fri 5/19/06														
198	Re-cable ESP300 to BTO computer	1 day	Wed 5/10/06	Thu 5/11/06														
199	Laser focus	1 day	Tue 5/23/06	Wed 5/24/06														
200	Test software control of motor	0.5 days	Tue 5/23/06	Tue 5/23/06														
201	Test software control using algorithtm	0.5 days	Wed 5/24/06	Wed 5/24/06														
202	test loop recovery with no light on HS loop	0.5 days	Tue 6/13/06	Tue 6/13/06														
203	Test/get Q2 working	1 day	Tue 6/13/06	Wed 6/14/06														
204	Test loop 'self-erection'	2 days	Wed 6/14/06	Fri 6/16/06														
205	FSM-200	1 day	Mon 5/15/06	Tue 5/16/06														
206	Meaure reflectivity in far field	0.5 days	Mon 5/15/06	Mon 5/15/06														
207	Decide if improvement in reflectivity is needed	0.5 days	Tue 5/16/06	Tue 5/16/06														
208	Make HeNe/Na alignment reproducable	2 days	Fri 5/12/06	Tue 5/16/06														
209	Backstops for mirrors??	11 days	Wed 5/10/06	Wed 6/7/06														
210	Define requirements	1 day	Wed 5/10/06	Wed 5/10/06														
211	Implement	10 days	Thu 5/11/06	Wed 6/7/06														
212	Open loop tracking tests	6 days	Tue 5/16/06	Mon 6/5/06														
213	test#1	3 days	Tue 5/16/06	Wed 5/17/06														
214	test #2	3 days	Fri 6/2/06	Mon 6/5/06														
215	LLT	17 days	Mon 4/24/06	Thu 7/6/06														
216	Flexure	10 days	Mon 4/24/06	Fri 5/19/06														
217	Understand	5 days	Mon 4/24/06	Fri 5/5/06														
218	Fix	5 days	Mon 5/8/06	Fri 5/19/06														
219	18-inch mirror	7 days	Mon 6/19/06	Thu 7/6/06														
220	Design cell	5 days	Mon 6/19/06	Fri 6/30/06														

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221	Install	2 days	Wed 7/5/06	Thu 7/6/06													0% HP	
222	Laser	53.5 days	Wed 5/10/06	Fri 7/7/06														
223	Management	0 days	Wed 5/10/06	Wed 6/14/06														
224	CSFL-3 strategy meeting	0 days	Wed 5/10/06	Wed 5/10/06														
225	Review first gain module tests	0 days	Wed 6/14/06	Wed 6/14/06														
226	Operations	16 days	Wed 5/10/06	Mon 6/5/06														
227	Prepare labs	6 days	Thu 5/11/06	Mon 6/5/06														
228	Clean labs	4 days	Thu 5/11/06	Fri 5/12/06														
229	Order cabinets	0 days	Fri 5/12/06	Fri 5/12/06														
230	Install cabinets	2 days	Mon 6/5/06	Mon 6/5/06														
231	LBO pressurization	2 days	Wed 5/10/06	Tue 5/16/06														
232	Order hardware	0 days	Wed 5/10/06	Wed 5/10/06														
233	Install and test bulkhead connectors	2 days	Mon 5/15/06	Tue 5/16/06														
234	Bandwidth	8 days	Wed 5/17/06	Tue 5/23/06														
235	Test and calibrate spectrum analyzer	2 days	Wed 5/17/06	Thu 5/18/06														
236	Measure CSFL linewidth	4 days	Fri 5/19/06	Mon 5/22/06														
237	Document bandwidth	2 days	Tue 5/23/06	Tue 5/23/06														
238	Replace intracavity Crystals	0 days	Wed 5/10/06	Tue 5/16/06														
239	Request quotes	0 days	Wed 5/10/06	Wed 5/10/06														
240	Order crystals	0 days	Tue 5/16/06	Tue 5/16/06														
241	Check out laser for June run	2 days	Tue 6/6/06	Wed 6/7/06														
242	Check out laser for July run	2 days	Wed 7/5/06	Fri 7/7/06														
243	Automation	2.5 days	Wed 5/10/06	Wed 5/24/06														
244	focus stage	0.5 days	Mon 5/15/06	Mon 5/15/06														
245	Install actuator & set hardware limits	0.5 days	Mon 5/15/06	Mon 5/15/06														
246	Etalon	2 days	Wed 5/10/06	Wed 5/24/06														
247	Order hardware	0 days	Wed 5/10/06	Wed 5/10/06														
248	Install actuator	2 days	Tue 5/23/06	Wed 5/24/06														
249	CSFL-3 upgrade	31 days	Wed 5/10/06	Tue 6/13/06														
250	Caltech	1 day	Wed 5/10/06	Wed 5/10/06														
251	Ship gain module and sapphire to Chicago	0 days	Wed 5/10/06	Wed 5/10/06														
252	Order hardware for cooling system	1 day	Wed 5/10/06	Wed 5/10/06														
253	Chicago	10 days	Tue 5/23/06	Mon 6/5/06														
254	Build first gain module	10 days	Tue 5/23/06	Mon 6/5/06														
255	Palomar	20 days	Thu 5/18/06	Tue 6/13/06														
256	Build and test cooling system	10 days	Thu 5/18/06	Mon 5/29/06														
257	Install and test new gain module	10 days	Wed 6/7/06	Tue 6/13/06														
259	PHARO	26 days	Wed 5/10/06	Fri 8/25/06														
260	PHARO focus adjustments	5 days	Wed 5/10/06	Tue 5/16/06														
261	Implement phase retrieval for calibration	20 days	Mon 7/3/06	Fri 8/25/06														
262	Decide on long term optic for FM3	1 day	Mon 7/17/06	Mon 7/17/06														
263	Safety	0 days	Wed 10/1/03	Wed 10/1/03														
264	Science run (5/8-5/12)	1.65 days	Fri 4/28/06	Fri 5/5/06														
265	Make build	0.4 days	Fri 4/28/06	Fri 4/28/06														
266	Re-install Old Dichroic with RS	0 days	Fri 4/28/06	Fri 4/28/06														
267	Update IP addresses as needed on all computers/software	0 days	Fri 4/28/06	Fri 4/28/06														
268	Install/configure new Pulizi	0 days	Fri 4/28/06	Fri 4/28/06														
269	Test new software build	1 day	Tue 5/2/06	Tue 5/2/06														

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					4/23	4/30	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16			
270	Make FQPM software build	0.25 days	Fri 5/5/06	Fri 5/5/06																
271	LGS Eng. (6/12-6/14)	3 days	Mon 5/22/06	Mon 6/19/06																
272	LLT flexure	0 days	Mon 5/22/06	Mon 5/22/06																
273	WFP optimizations for low flux levels	0 days	Fri 6/9/06	Fri 6/9/06																
274	More laser photons	0 days	Mon 5/22/06	Thu 6/8/06																
275	Laser power	0 days	Thu 6/8/06	Thu 6/8/06																
276	laser linewidth	0 days	Wed 5/24/06	Wed 5/24/06																
277	Polarization control	0 days	Mon 5/22/06	Tue 5/23/06																
278	BTO	0 days	Wed 5/24/06	Mon 6/19/06																
279	Off zenith control	0 days	Mon 6/5/06	Tue 6/6/06																
280	self-erecting (LP)	0 days	Fri 6/16/06	Mon 6/19/06																
281	static laser focus control (LP)	0 days	Wed 5/24/06	Wed 5/24/06																
282	Support run	3 days	Mon 6/12/06	Mon 6/12/06																
283	LGS Eng. (7/11-7/13)	3 days	Tue 6/6/06	Thu 7/13/06																
284	More laer photons	0 days	Tue 6/6/06	Wed 6/7/06																
285	HOWFS integration (??)	0 days	Tue 6/6/06	Wed 6/7/06																
286	Support run	3 days	Tue 7/11/06	Thu 7/13/06																

