



WREB Functional Test Report

Board ID: 0x123b55b6

Board Type: b

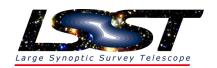
Link Version: 020

Front-end FPGA Code Version: 0020

Test Performed: 2016, 07, 13, 10,05,50

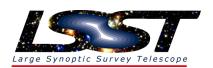
Test Performed: 2016-07-12 10:05:50

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Status	Test	Results
N/A	Idle Current	N/A
FAIL	Channel Comms	-3/33 channels missing.
PASS	ASPIC Comms	1/1 ASPICS communicating.
N/A	CS Gate Test	N/A
N/A	PCK Rails	N/A
FAIL	SCK Rails	LV Gain: 0.992864. UV Gain: 0.847598. 43/50 values okay.
FAIL	RG Rails	LV Gain: 0.998735. UV Gain: 0.866379. 44/50 values okay.
FAIL	Diverging SCK Rails	LV Gain: 0.725285. UV Gain: 0.614557. 24/38 values okay.
FAIL	Diverging SCK Rails	LV Gain: 0.798340. UV Gain: 0.702715. 16/38 values okay.
FAIL	Diverging SCK Rails	LV Gain: 0.366294. UV Gain: 0.719704. 25/38 values okay.
PASS	Diverging RG Rails	LV Gain: 0.980816. UV Gain: 0.951211. 35/38 values okay.
FAIL	Diverging RG Rails	LV Gain: 0.808609. UV Gain: 0.951311. 16/38 values okay.
FAIL	Diverging RG Rails	LV Gain: 0.665334. UV Gain: 0.820703. 27/38 values okay.
PASS	OG Bias Test	Gain: 0.991682. 21/21 values okay.
PASS	OD Bias Test	Gain: 0.993114. 15/16 values okay.
PASS	GD Bias Test	Gain: 0.995829. 15/16 values okay.
PASS	RD Bias Test	Gain: 0.996969. 15/16 values okay.
N/A	Board Temperature	N/A
FAIL	ASPIC Noise Tests	29/48 channels within sigma<5.5.





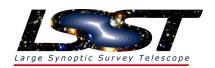
Idle Current Test			
Channel	Voltage	Channel	Current
DigPS_V	4.925	DigPS_I	643.0
AnaPS_V	6.975	AnaPS_I	283.5
ODPS_V	26.0095	ODPS_I	1.8819
CIkHPS_V	9.0	CIKHPS_I	33.5
DphiPS_V	0.95	DphiPS_I	6.25
HtrPS_V	8.025	HtrPS_I	1.5





Channel Com	munications Test
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Channel	Value
Channel WREB.Temp1 WREB.Temp2 WREB.Temp3 WREB.Temp4 WREB.Temp5 WREB.Temp6 WREB.Atemp0U WREB.Atemp0L	Value 38.25 39.9375 32.0 37.625 35.0625 34.6875 -128.4853 -128.3014
WREB.CCDtemp	2857.1427
WREB.RTDtemp	2857.1427
WREB.DigPS_V	4.925
WREB.DigPS_I	643.25
WREB.AnaPS_V	6.975
WREB.AnaPS_I	283.5
WREB.ODPS_V	31.05
WREB.ODPS_I	6.25
WREB.CIkHPS_V	9.0
WREB.CIkHPS_I	33.5
WREB.DphiPS_V	0.95
WREB.DphiPS_I	6.25
WREB.HtrPS_V	8.025
WREB.HtrPS_I	1.75
WREB.VREF25	2.4947
WREB.OD_V	26.0078
WREB.OD_I	2.3905
WREB.OG_V	-2.4271
WREB.RD_V	11.5646
WREB.GD_V	25.8652
WREB.CKP_V	-8.0449
WREB.CKPSH_V	-8.0269
WREB.CKS V	4.1676
WREB.SCKU_V	4.1557
WREB.SCKL_V	-4.0413
WREB.RG_V	8.0231
WREB.RGU_V	8.0002
WREB.RGL_V	-1.9348

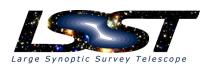




ASPIC Communications Test

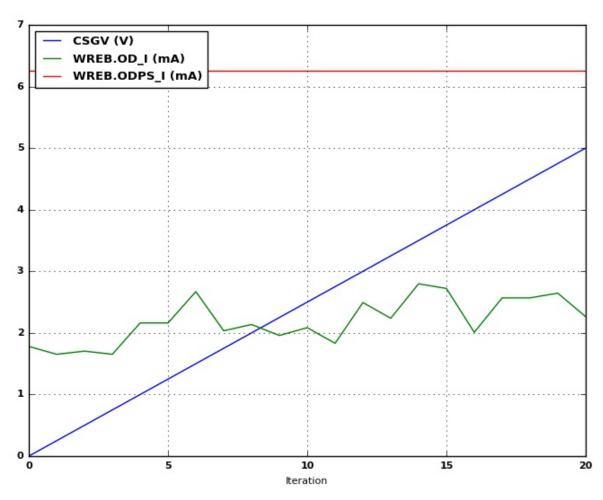
Test PASS. 1/1 ASPICS communicating.

ccs-cr.checkAsics result: [0]

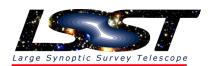




CSGate Test

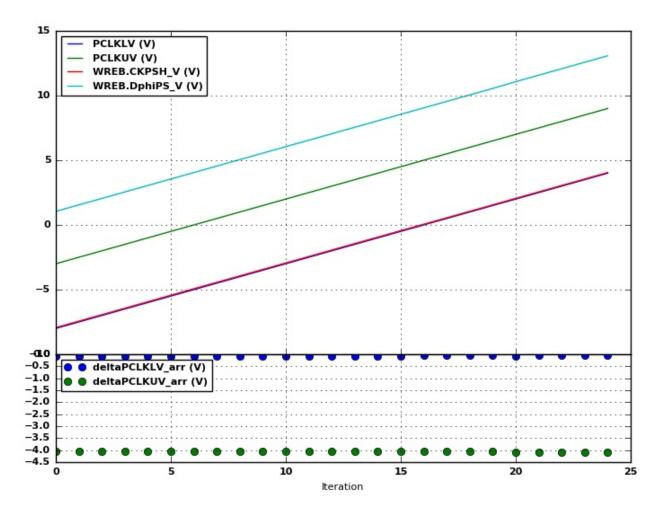


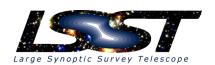
CSGV (V)	WREB.OD_I (mA)	WREB.ODPS_I (mA)
0	1.7802	6.25
0.25	1.653	6.25
0.5	1.7039	6.25
0.75	1.653_	6.25
1.0_	2.1617	6.25
1.25	2.1617	6.25
1.5_	2.6703	6.25
1.75	2.0345	6.25
2.0	2.1362	6.25
2.25	1.9582	6.25
2.5	2.0854	6.25
2.75	1.8311	6.25
3.0	2.4923	6.25
3.25	2.238	6.25
3.5	2.7974	6.25
3.75	2.7212	6.25
4.0	2.0091	6.25
4.25 4.5	2.5686 2.5686	6.25 6.25
4.5 4.75	2.6449	6.25
	2.2634	
5.0	2.2034	6.25





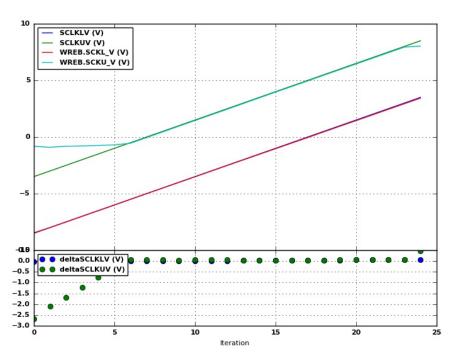
PCKRails Test





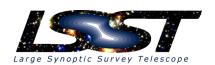


SCK Rails Test



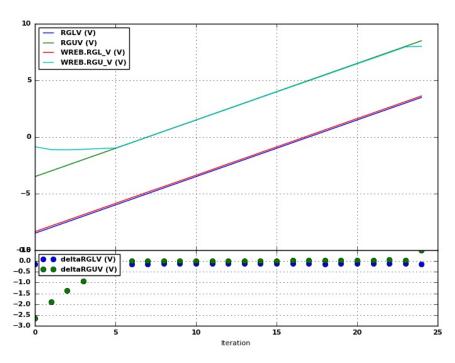
LV Gain: 0.992864. UV Gain: 0.847598. 43/50 values okay. Test FAILED.

SCLKLV (V)	SCLKUV (V)	WREB.SCKL V (V)	WREB.SCKU V (V)	deltaSCLKLV (V)	deltaSCLKUV (V)
-8.5	-3.5	-8.461	-0.8247	-0.039	-2.6753
-8.0	-3.0	-7.9948	-0.9109	-0.0052	-2.0891
-7.5	-2.5	-7.4989	-0.8217	-0.0011	-1.6783
-7.0	-2.0	-6.9992	-0.7866	-0.0008	-1.2134
-6.5	-1.5	-6.5033	-0.7462	0.0033	-0.7538
-6.0	-1.0	-6.0081	-0.6989	0.0081	-0.3011
-5.5	-0.5	-5.497	-0.5501	-0.003	0.0501
-5.0	0.0	-4.998	-0.0488	-0.002	0.0488
-4.5	0.5	-4.5036	0.4486	0.0036	0.0514
-4.0	1.0	-4.0108	0.9552	0.0108	0.0448
-3.5	1.5	-3.5141	1.4519	0.0141	0.0481
-3.0	2.0	-3.0167	1.9508	0.0167	0.0492
-2.5	2.5	-2.5146	2.4506	0.0146	0.0494
-2.0	3.0	-2.0203	2.9533	0.0203	0.0467
-1.5	3.5	-1.5266	3.4584	0.0266	0.0416
-1.0	4.0	-1.0338	3.9619	0.0338	0.0381
-0.5	4.5	-0.5402	4.454	0.0402	0.046
0.0	5.0	-0.0473	4.953	0.0473	0.047
0.5	5.5	0.4539	5.4558	0.0461	0.0442
1.0	6.0	0.9521	5.9502	0.0479	0.0498
1.5	6.5	1.4442	6.4468	0.0558	0.0532
2.0	7.0	1.9402	6.9466	0.0598	0.0534
2.5	7.5	2.4414	7.4417	0.0586	0.0583
3.0	8.0	2.9358	7.9376	0.0642	0.0624
3.5	8.5	3.4348	8.0238	0.0652	0.4762



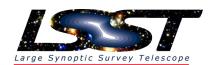


RG Rails Test



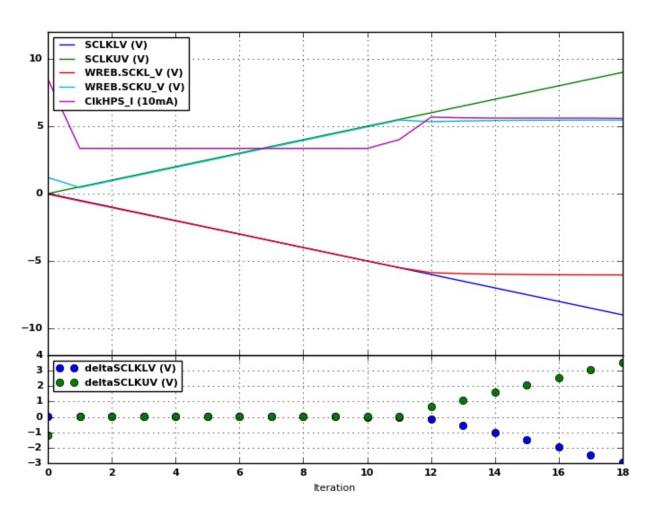
LV Gain: 0.998735. UV Gain: 0.866379. 44/50 values okay. Test FAILED.

RGLV (V)	RGUV (V)	WREB.RGL_V (V)	WREB.RGU_V (V)	deltaRGLV (V)	deltaRGUV (V)
-8.5	-3.5	-8.3572	-0.8636	-0.1428	-2.6364
-8.0	-3.0	-7.8583	-1.1101	-0.1417	-1.8899
-7.5	-2.5	-7.3631	-1.1261	-0.1369	-1.3739
-7.0	-2.0	-6.8642	-1.0841	-0.1358	-0.9159
-6.5	-1.5	-6.3652	-1.0292	-0.1348	-0.4708
-6.0	-1.0	-5.8647	-0.972	-0.1353	-0.028
-5.5	-0.5	-5.3635	-0.4944	-0.1365	-0.0056
-5.0	0.0	-4.866	0.0038	-0.134	-0.0038
-4.5	0.5	-4.3739	0.5058	-0.1261	-0.0058
-4.0	1.0	-3.8757	1.004	-0.1243	-0.004
-3.5	1.5	-3.3775	1.4938	-0.1225	0.0062
-3.0	2.0	-2.8824	1.9905	-0.1176	0.0095
-2.5	2.5	-2.375	2.4849	-0.125	0.0151
-2.0	3.0	-1.8799	2.9831	-0.1201	0.0169
-1.5	3.5	-1.3763	3.4851	-0.1237	0.0149
-1.0	4.0	-0.8789	3.9818	-0.1211	0.0182
-0.5	4.5	-0.3799	4.4754	-0.1201	0.0246
0.0	5.0	0.1228	4.9683	-0.1228	0.0317
0.5	5.5	0.6271	5.4634	-0.1271	0.0366
1.0	6.0	1.1269	5.9639	-0.1269	0.0361
1.5	6.5	1.6266	6.4629	-0.1266	0.0371
2.0	7.0	2.1255	6.955	-0.1255	0.045
2.5	7.5	2.6268	7.4516	-0.1268	0.0484
3.0	8.0	3.125	7.9567	-0.125	0.0433
3.5	8.5	3.6278	8.0063	-0.1278	0.4937



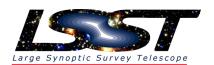


Diverging SCKRails Test 0 V



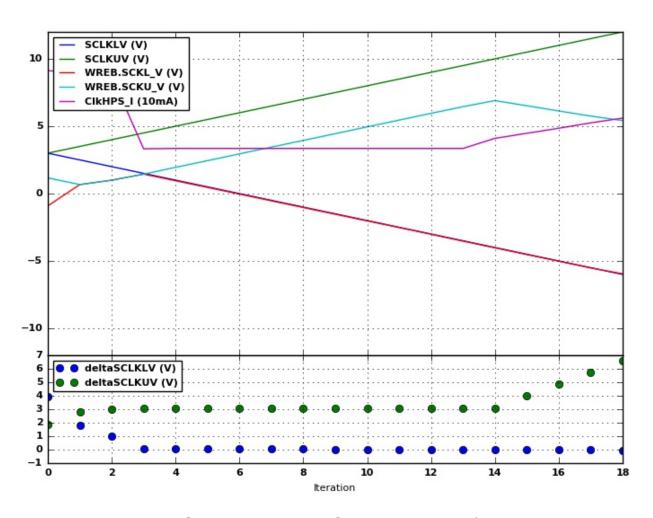
LV Gain: 0.725285. UV Gain: 0.614557. 24/38 values okay. Test FAILED.

CCLIZIAZA	SCLIVIN/ AA	WIDER COKI. V (V)	WIDER COKILL V (A)	CILLIDO 1 (40 A)	4-14-CCL KLV (4-14-CCL KLIV (
SCLKLV (V)	SCLKUV (V)	WREB.SCKL_V (V)			deltaSCLKLV (V)	deltaSCLKUV (V)
0.0	0.0	-0.0412	1.1955	8.5	0.0412	-1.1955
-0.5	0.5	-0.5424	0.4509	3.35	0.0424	0.0491
-1.0	1.0	-1.0368	0.9499	3.35	0.0368	0.0501
-1.5	1.5	-1.5297	1.445	3.35	0.0297	0.055
-2.0	2.0	-2.0226	1.947	3.35	0.0226	0.053
-2.5	2.5	-2.5154	2.4445	3.35	0.0154	0.0555
-3.0	3.0	-3.0098	2.9503	3.35	0.0098	0.0497
-3.5	3.5	-3.5118	3.4492	3.35	0.0118	0.0508
-4.0	4.0	-4.0085	3.9459	3.35	0.0085	0.0541
-4.5	4.5	-4.5067	4.4472	3.35	0.0067	0.0528
-5.0	5.0	-5.0003	4.95	3.35	0.0003	0.05
-5.5	5.5	-5.4924	5.4535	4.0	-0.0076	0.0465
-6.0	6.0	-5.8662	5.3352	5.675	-0.1338	0.6648
-6.5	6.5	-5.9433	5.3886	5.625	-0.5567	1.1114
-7.0	7.0	-5.9845	5.4207	5.6	-1.0155	1.5793
-7.5	7.5	-6.0097	5.4382	5.6	-1.4903	2.0618
-8.0	8.0	-6.0242	5.4482	5.6	-1.9758	2.5518
-8.5	8.5	-6.0318	5.455	5.6	-2.4682	3.045
-9.0	9.0	-6.0364	5.4573	5.575	-2.9636	3.5427



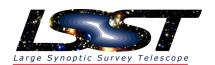


Diverging SCKRails Test 3 V



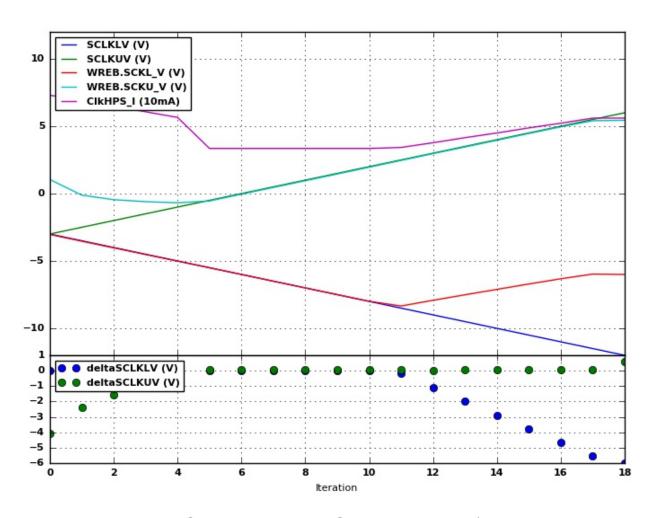
LV Gain: 0.798340. UV Gain: 0.702715. 16/38 values okay. Test FAILED.

SCLKLV (V)	SCLKUV (V)	WREB.SCKL_V (V)	WREB.SCKU_V (V)	ClkHPS_I (10mA)	deltaSCLKLV (V)	deltaSCLKUV (V)
3.0	3.0	-0.9109	1.165	9.125	3.9109	1.835
2.5	3.5	0.6683	0.6714	8.95	1.8317	2.8286
2.0	4.0	1.001	0.985	8.7	0.999	3.015
1.5	4.5	1.445	1.4442	3.325	0.055	3.0558
1.0	5.0	0.9521	1.9478	3.35	0.0479	3.0522
0.5	5.5	0.4593	2.4445	3.35	0.0407	3.0555
0.0	6.0	-0.0366	2.9495	3.35	0.0366	3.0505
-0.5	6.5	-0.5356	3.4492	3.35	0.0356	3.0508
-1.0	7.0	-1.0345	3.9467	3.35	0.0345	3.0533
-1.5	7.5	-1.5312	4.4472	3.35	0.0312	3.0528
-2.0	8.0	-2.0264	4.9507	3.35	0.0264	3.0493
-2.5	8.5	-2.5185	5.4543	3.35	0.0185	3.0457
-3.0	9.0	-3.0182	5.957	3.35	0.0182	3.043
-3.5	9.5	-3.5286	6.4499	3.35	0.0286	3.0501
-4.0	10.0	-4.0253	6.9023	4.1	0.0253	3.0977
-4.5	10.5	-4.5219	6.5193	4.475	0.0219	3.9807
-5.0	11.0	-5.0194	6.1348	4.85	0.0194	4.8652
-5.5	11.5	-5.5161	5.7526	5.25	0.0161	5.7474
-6.0	12.0	-5.9517	5.4199	5.6	-0.0483	6.5801



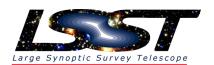


Diverging SCKRails Test -3 V



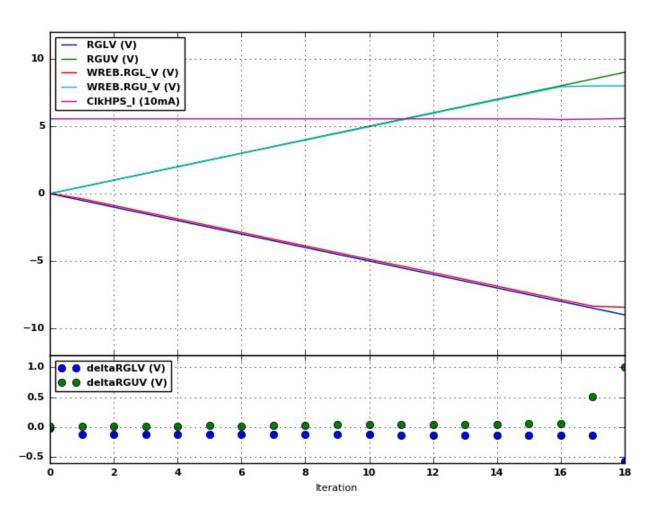
LV Gain: 0.366294. UV Gain: 0.719704. 25/38 values okay. Test FAILED.

SCLKLV (V)	SCLKUV (V)	WREB.SCKL_V (V)	WREB.SCKU_V (V)	ClkHPS_I (10mA)	deltaSCLKLV (V)	deltaSCLKUV (V)
-3.0	-3.0	-3.0319	1.046	7.3	0.0319	-4.046
-3.5	-2.5	-3.5324	-0.1144	6.925	0.0324	-2.3856
-4.0	-2.0	-4.0268	-0.4524	6.5	0.0268	-1.5476
-4.5	-1.5	-4.5197	-0.5981	6.075	0.0197	-0.9019
-5.0	-1.0	-5.0125	-0.6813	5.65	0.0125	-0.3187
-5.5	-0.5	-5.5038	-0.5486	3.35	0.0038	0.0486
-6.0	0.0	-5.9982	-0.0412	3.35	-0.0018	0.0412
-6.5	0.5	-6.501	0.4562	3.35	0.001	0.0438
-7.0	1.0	-6.9984	0.9544	3.35	-0.0016	0.0456
-7.5	1.5	-7.4951	1.4549	3.35	-0.0049	0.0451
-8.0	2.0	-7.9903	1.9562	3.35	-0.0097	0.0438
-8.5	2.5	-8.3427	2.462	3.425	-0.1573	0.038
-9.0	3.0	-7.9163	2.9648	3.775	-1.0837	0.0352
-9.5	3.5	-7.5096	3.4584	4.15	-1.9904	0.0416
-10.0	4.0	-7.1083	3.9558	4.5	-2.8917	0.0442
-10.5	4.5	-6.7085	4.4609	4.875	-3.7915	0.0391
-11.0	5.0	-6.3202	4.9545	5.225	-4.6798	0.0455
-11.5	5.5	-5.9746	5.4062	5.6	-5.5254	0.0938
-12.0	6.0	-6.0028	5.4352	5.6	-5.9972	0.5648



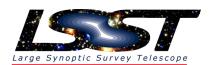


Diverging RGRails Test 0 V



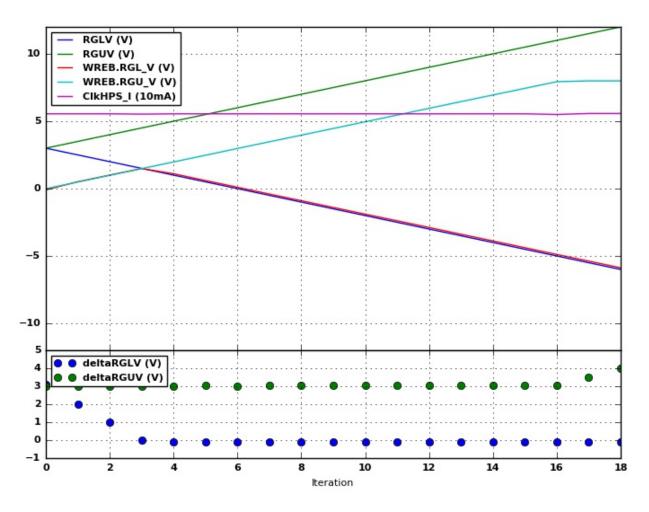
LV Gain: 0.980816. UV Gain: 0.951211. 35/38 values okay. Test PASSED.

DCI V/ (V)	DOLLY (V)	WRED DOL V (V)	WDED DOLL V (V)	CULUDO 1 (40 A)	dalta DOLV () ()	delta DOLIV (V)
RGLV (V)	RGUV (V)	WREB.RGL_V (V)	WREB.RGU_V (V)	CIkHPS_I (10mA)	deltaRGLV (V)	deltaRGUV (V)
0.0	0.0	0.0221	-0.0114	5.55	-0.0221	0.0114
-0.5	0.5	-0.3807	0.489	5.55	-0.1193	0.011
-1.0	1.0	-0.882	0.9865	5.55	-0.118	0.0135
-1.5	1.5	-1.3809	1.4847	5.55	-0.1191	0.0153
-2.0	2.0	-1.8791	1.9775	5.55	-0.1209	0.0225
-2.5	2.5	-2.3827	2.4765	5.55	-0.1173	0.0235
-3.0	3.0	-2.8793	2.9785	5.55	-0.1207	0.0215
-3.5	3.5	-3.3867	3.4744	5.55	-0.1133	0.0256
-4.0	4.0	-3.8803	3.9673	5.55	-0.1197	0.0327
-4.5	4.5	-4.3785	4.4624	5.55	-0.1215	0.0376
-5.0	5.0	-4.8775	4.9561	5.55	-0.1225	0.0439
-5.5	5.5	-5.3688	5.455	5.55	-0.1312	0.045
-6.0	6.0	-5.8655	5.9578	5.55	-0.1345	0.0422
-6.5	6.5	-6.3683	6.4545	5.55	-0.1317	0.0455
-7.0	7.0	-6.8687	6.9481	5.55	-0.1313	0.0519
-7.5	7.5	-7.3662	7.4394	5.55	-0.1338	0.0606
-8.0	8.0	-7.8659	7.9338	5.5	-0.1341	0.0662
-8.5	8.5	-8.3611	7.9941	5.525	-0.1389	0.5059
-9.0	9.0	-8.4312	7.9933	5.575	-0.5688	1.0067



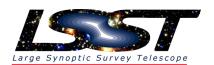


Diverging RGRails Test 3 V



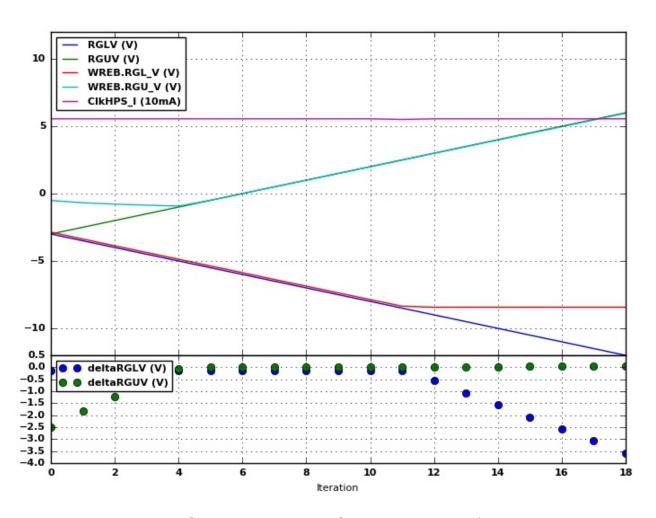
LV Gain: 0.808609. UV Gain: 0.951311. 16/38 values okay. Test FAILED.

DOLLY (V)	DOLIN (A A	MPER BOL MAN	WRED DOLL V (A)	OILLIBO I (40 A)	alatia DOLM (M)	1-11-0011/1/00
RGLV (V)	RGUV (V)	WREB.RGL_V (V)	WREB.RGU_V (V)	ClkHPS_I (10mA)	deltaRGLV (V)	deltaRGUV (V)
3.0	3.0	-0.0961	-0.0107	5.55	3.0961	3.0107
2.5	3.5	0.5104	0.4898	5.55	1.9896	3.0102
2.0	4.0	1.0017	0.9865	5.55	0.9983	3.0135
1.5	4.5	1.4915	1.4832	5.525	0.0085	3.0168
1.0	5.0	1.1024	1.9783	5.55	-0.1024	3.0217
0.5	5.5	0.5974	2.475	5.55	-0.0974	3.025
0.0	6.0	0.1007	2.9785	5.55	-0.1007	3.0215
-0.5	6.5	-0.4051	3.4744	5.55	-0.0949	3.0256
-1.0	7.0	-0.8995	3.9665	5.55	-0.1005	3.0335
-1.5	7.5	-1.3985	4.4617	5.55	-0.1015	3.0383
-2.0	8.0	-1.8974	4.9553	5.55	-0.1026	3.0447
-2.5	8.5	-2.388	5.455	5.55	-0.112	3.045
-3.0	9.0	-2.8847	5.9578	5.55	-0.1153	3.0422
-3.5	9.5	-3.3867	6.4545	5.55	-0.1133	3.0455
-4.0	10.0	-3.8864	6.9466	5.55	-0.1136	3.0534
-4.5	10.5	-4.3861	7.4402	5.55	-0.1139	3.0598
-5.0	11.0	-4.8859	7.9338	5.5	-0.1141	3.0662
-5.5	11.5	-5.3795	7.9956	5.575	-0.1205	3.5044
-6.0	12.0	-5.88	7.9956	5.575	-0.12	4.0044



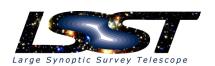


Diverging RGRails Test -3 V



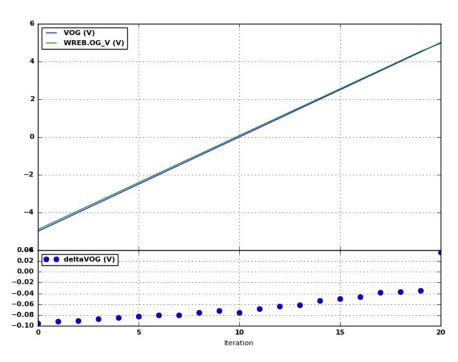
LV Gain: 0.665334. UV Gain: 0.820703. 27/38 values okay. Test FAILED.

RGLV (V)	RGUV (V)	WREB.RGL_V (V)	WREB.RGU_V (V)	ClkHPS_I (10mA)	deltaRGLV (V)	deltaRGUV (V)
-3.0	-3.0	-2.8633	-0.5119	5.55	-0.1367	-2.4881
-3.5	-2.5	-3.3699	-0.679	5.55	-0.1301	-1.821
-4.0	-2.0	-3.8704	-0.7813	5.55	-0.1296	-1.2188
-4.5	-1.5	-4.3694	-0.8591	5.55	-0.1306	-0.6409
-5.0	-1.0	-4.8676	-0.9285	5.55	-0.1324	-0.0715
-5.5	-0.5	-5.3703	-0.4959	5.55	-0.1297	-0.0041
-6.0	0.0	-5.867	0.0053	5.55	-0.133	-0.0053
-6.5	0.5	-6.3736	0.5028	5.55	-0.1264	-0.0028
-7.0	1.0	-6.8687	0.9949	5.55	-0.1313	0.0051
-7.5	1.5	-7.3677	1.4885	5.55	-0.1323	0.0115
-8.0	2.0	-7.8644	1.9844	5.55	-0.1356	0.0156
-8.5	2.5	-8.3572	2.4834	5.5	-0.1428	0.0166
-9.0	3.0	-8.4328	2.9854	5.55	-0.5672	0.0146
-9.5	3.5	-8.432	3.4813	5.55	-1.068	0.0187
-10.0	4.0	-8.4312	3.9772	5.55	-1.5688	0.0228
-10.5	4.5	-8.4305	4.4678	5.55	-2.0695	0.0322
-11.0	5.0	-8.4312	4.9629	5.55	-2.5688	0.0371
-11.5	5.5	-8.4312	5.4626	5.55	-3.0688	0.0374
-12.0	6.0	-8.4312	5.9624	5.55	-3.5688	0.0376



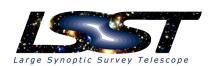


OG Bias Test



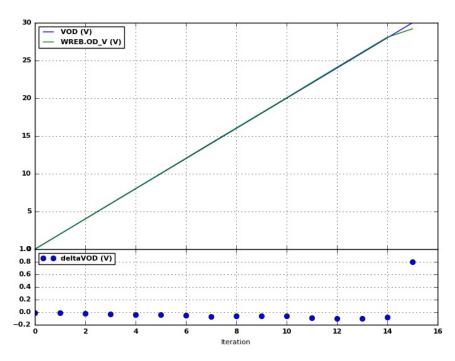
Gain: 0.991682. 21/21 values okay. Test PASSED.

VOG (V)	WREB.OG_V (V)	deltaVOG (V)
-5.0	-4.9045	-0.0955
-4.5	-4.4077	-0.0923
-4.0	-3.9091	-0.0909
-3.5	-3.4123	-0.0877
-3.0	-2.9155	-0.0845
-4.5 -4.0 -3.5 -3.0 -2.5 -2.0 -1.5	-2.417	-0.083
-2.0	-1.9202	-0.0798
	-1.42	-0.08
-1.0	-0.9248	-0.0752
-0.5	-0.428	-0.072
0.0	0.0755	-0.0755
0.5	0.569	-0.069
1.0	1.0641	-0.0641
1.5	1.561	-0.061
2.0	2.0528	-0.0528
2.5	2.5496	-0.0496
3.0	3.0464	-0.0464
3.5	3.5382	-0.0382
4.0	4.0367	-0.0367
4.5	4.5352	-0.0352
5.0	4.9632	0.0368



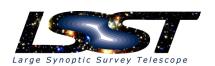


OD Bias Test



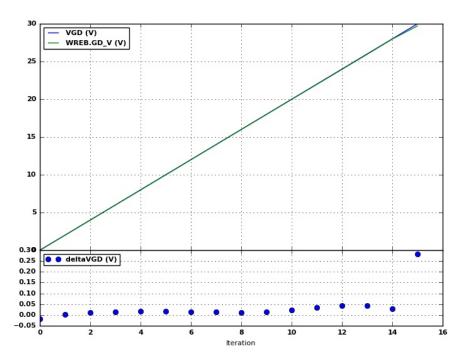
Gain: 0.993114. 15/16 values okay. Test PASSED.

VOD (1)	MIDER OR MAN	1 1/ 1/05 (1)
VOD (V)	WREB.OD_V (V)	deltaVOD (V)
0	0.0117	-0.0117
2	2.0125	-0.0125
4	4.0233	-0.0233
6	6.0307	-0.0307
8	8.0365	-0.0365
10	10.0406	-0.0406
12	12.0547	-0.0547
14	14.0706	-0.0706
16	16.0612	-0.0612
18	18.062	-0.062
20	20.0644	-0.0644
22	22.0886	-0.0886
24	24.0994	-0.0994
26	26.0968	-0.0968
28	28.0824	-0.0824
30	29.1986	0.8014



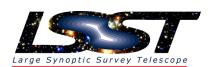


GD Bias Test



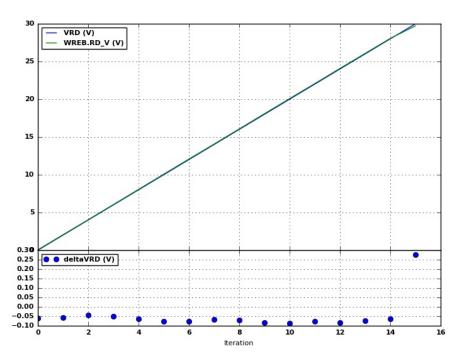
Gain: 0.995829. 15/16 values okay. Test PASSED.

VGD (V)	WREB.GD_V (V)	deltaVGD (V)
0	0.0185	-0.0185
2	1.9974	0.0026
4	3.9897	0.0103
6	5.9871	0.0129
8	7.9828	0.0172
10	9.9835	0.0165
12	11.9859	0.0141
14	13.9867	0.0141
16	15.9874	0.0126
18	17.9848	0.0152
20	19.9771	0.0229
22	21.9661	0.0339
24	23.9568	0.0432
26	25.9558	0.0442
26 28	27.97	0.03
30	29.7173	0.2827
30	23.1113	0.2021



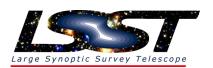


RD Bias Test



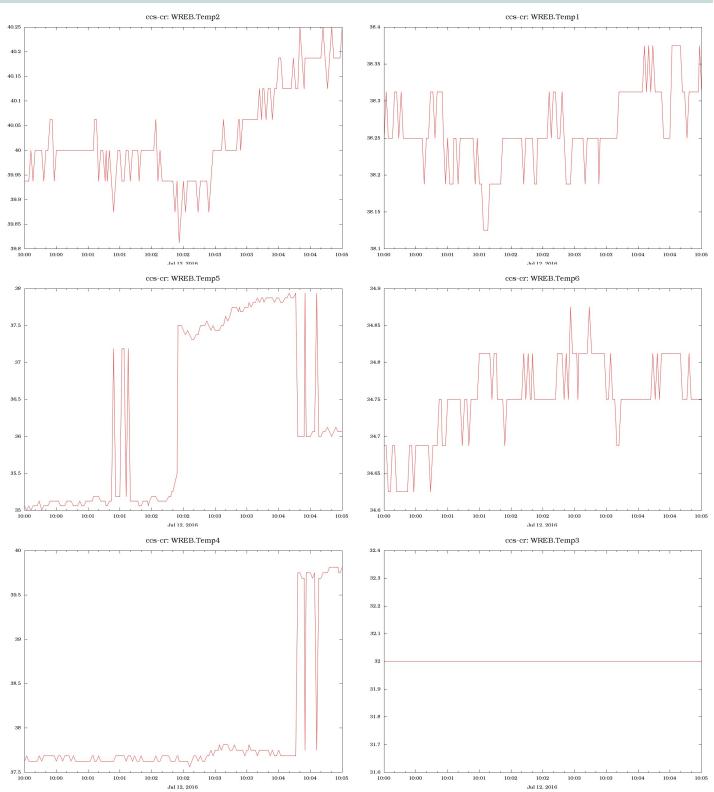
Gain: 0.996969. 15/16 values okay. Test PASSED.

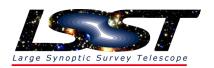
\(\mathbb{O}\mathbb{O}\)	MOED DD 1///	1 1/ 1/00 (1/)
VRD (V)	WREB.RD_V (V)	deltaVRD (V)
0	0.0587	-0.0587
2	2.0561	-0.0561
4	4.0434	-0.0434
6	6.0509	-0.0509
8	8.0634	-0.0634
10	10.0758	-0.0758
12	12.0766	-0.0766
14	14.0656	-0.0656
16	16.0713	-0.0713
18	18.0838	-0.0838
20	20.0862	-0.0862
22	22.0769	-0.0769
24	24.0843	-0.0843
26	26.075	-0.075
28	28.064	-0.064
30	29.7223	0.2777





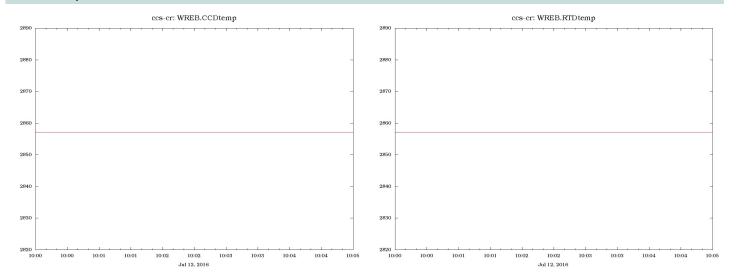
Board temperature test

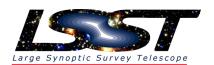




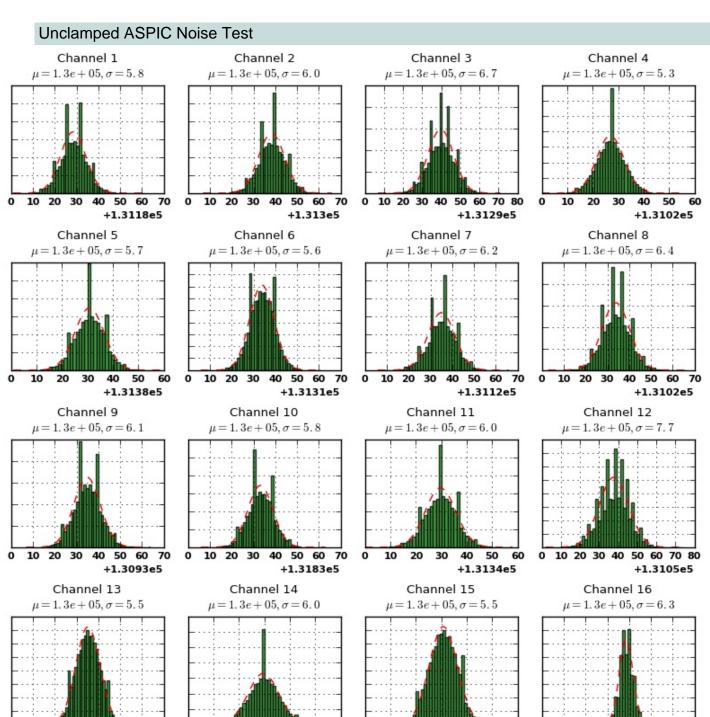


CCD temperature test









Test FAILED.

10

50

+1.3124e5

60

20 40 60 80 100 120 140 160

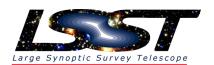
+1.311e5

50

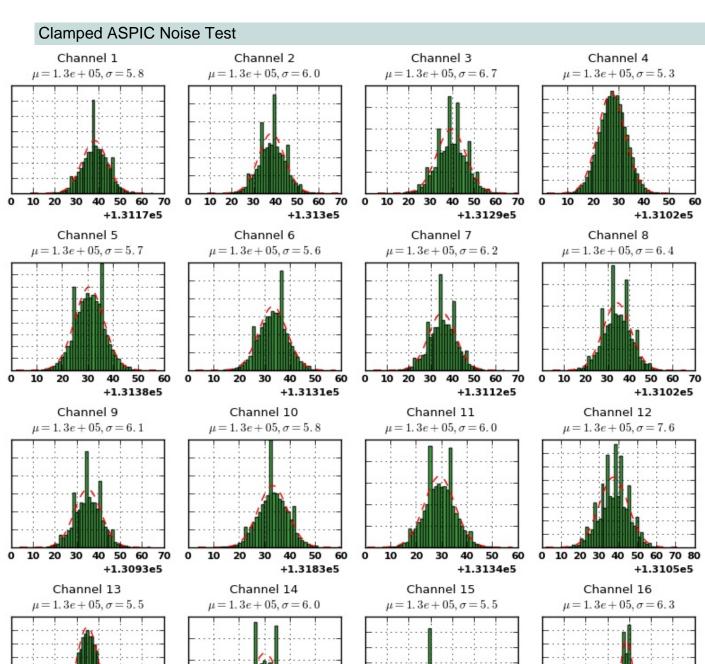
+1.3124e5

10 20

+1.3114e5







Test FAILED.

10 20

30

50 60 70

+1.3124e5

20 40 60 80 100 120 140 160

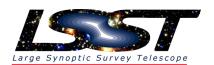
+1.311e5

50

+1.3124e5

10 20 30

+1.3114e5



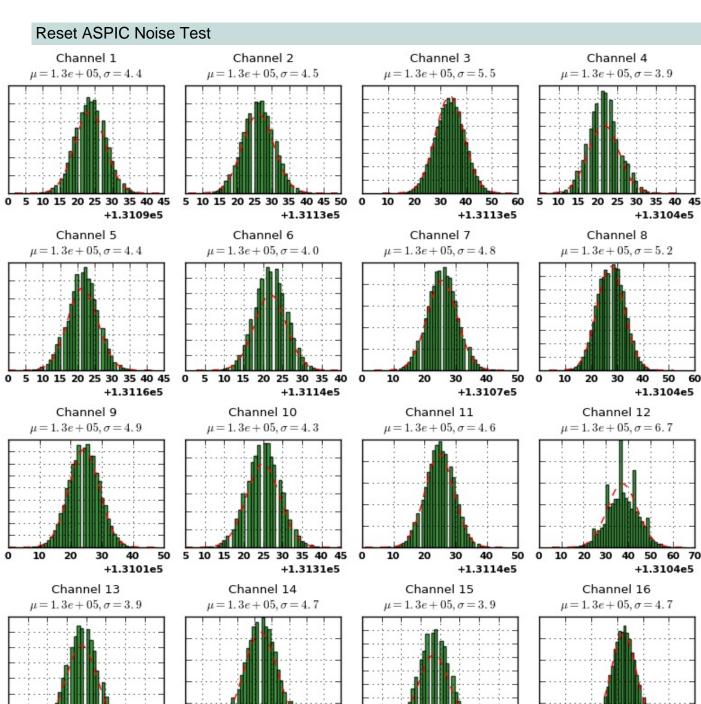
10 15 20

25 30 35 40

+1.3108e5

WREB Test: 2016-07-12 10:05





Test FAILED.

5 10 15 20 25 30 35 40

+1.3112e5

10

20

+1.3108e5

5 10 15 20 25 30 35 40 45

+1.3112e5