SQUID Tuning Summary

HWMap Name: PB2 HWM

HWMap Path
/home/polarbear/hardware_maps/polarbear/PB2b/commissioning/202305_crate_test/crate_hwm_202310_shift_disable_bad_sq.yam

Date: Wed Jun 5 21:23:43 2024

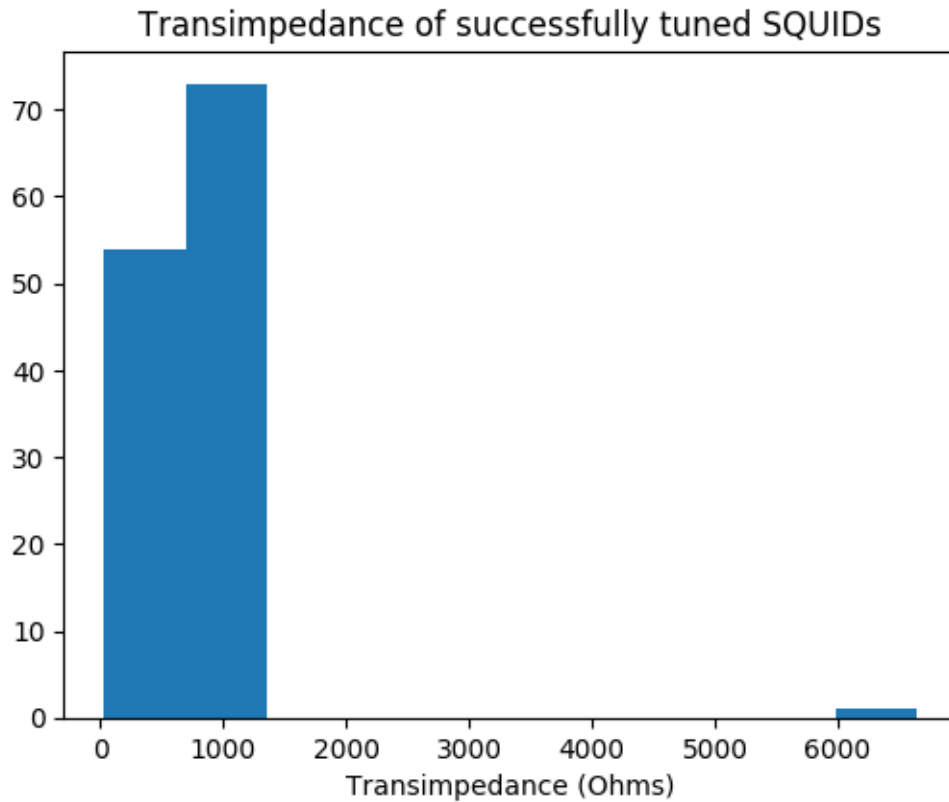128 squids successfully tuned, 16 squids failed to tune

Successful Tunings

SqID	Current Bias (V_DAC)	Current Bias (uA)	Achieved Vpp (V_DAC)	Vpp (mV)	Measured Z_sq (Ohms)
Correct.1	0.88	42.62	0.38	4.98	719
Correct.2	0.87	42.54	0.37	4.93	727
Correct.3	0.88	42.89	0.36	4.82	737
Correct.4	0.87	42.15	0.35	4.68	717
Correct.5	0.92	45.88	0.34	4.48	654
Correct.6	0.88	43.10	0.35	4.57	720
Correct.7	0.87	42.24	0.34	4.44	719
Correct.8	0.89	43.71	0.34	4.53	731
Correct.2	0.86	41.12	0.36	4.73	757
Correct.3	0.89	43.51	0.36	4.82	771
Correct.4	0.88	42.84	0.37	4.95	802
Correct.1	0.87	41.98	0.34	4.53	677
Correct.2	0.87	42.39	0.40	5.29	815
Correct.3	0.89	43.55	0.36	4.79	726
Correct.4	0.91	45.57	0.34	4.56	652
Correct.5	0.92	46.08	0.34	4.57	637
Correct.6	0.92	46.21	0.35	4.62	666
Correct.7	0.92	46.05	0.34	4.53	640
Correct.8	0.92	46.05	0.34	4.53	646
Correct.1	0.87	42.31	0.35	4.69	753
Correct.2	0.88	43.36	0.37	4.84	777
Correct.4	0.88	42.84	0.37	4.84	786
Correct.1	0.87	41.98	0.37	4.94	735
Correct.2	0.87	42.46	0.39	5.15	790
Correct.3	0.87	41.99	0.38	4.98	746
Correct.4	0.86	41.51	0.37	4.85	759

Correct.5	0.87	42.35	0.36	4.76	757
Correct.6	0.87	42.19	0.36	4.79	745
Correct.7	0.88	42.72	0.37	4.91	794
Correct.1	0.81	37.18	0.01	0.07	324
Correct.2	0.92	46.38	0.36	4.82	716
Correct.3	0.91	45.38	0.34	4.54	6645
Correct.4	0.91	45.43	0.34	4.52	615
Correct.5	0.90	44.42	0.35	4.57	669
Correct.6	0.91	45.50	0.34	4.55	620
Correct.7	0.87	42.18	0.35	4.62	740
Correct.8	0.89	43.65	0.34	4.50	708
Correct.1	0.87	42.43	0.34	4.49	735
Correct.2	0.87	42.00	0.33	4.39	660
Correct.3	0.90	44.63	0.35	4.58	647
Correct.4	0.87	42.27	0.35	4.60	747
Correct.5	0.91	45.26	0.37	4.89	683
Correct.6	0.87	42.16	0.39	5.12	776
Correct.7	0.89	43.52	0.36	4.82	757
Correct.8	0.88	43.28	0.36	4.81	760
Correct.1	0.92	46.20	0.35	4.67	693
Correct.2	0.91	45.31	0.34	4.52	633
Correct.4	0.89	43.78	0.35	4.60	702
Correct.5	0.92	45.92	0.35	4.59	679
Correct.6	0.89	44.08	0.38	5.00	768
Correct.7	0.92	46.29	0.39	5.15	710
Correct.8	0.86	41.31	0.01	0.14	476
Correct.1	0.91	45.28	0.35	4.57	686
Correct.2	0.91	45.33	0.35	4.62	665
Correct.4	0.90	44.72	0.34	4.45	283
Correct.5	0.90	44.87	0.36	4.79	713
Correct.6	0.90	44.65	0.32	4.21	264
Correct.7	0.91	45.29	0.35	4.66	664
Correct.8	0.88	43.05	0.34	4.55	711
Correct.1	0.89	43.56	0.36	4.81	758
Correct.2	0.93	46.78	0.38	4.97	718
Correct.3	0.92	45.79	0.31	4.11	266
Correct.4	0.92	46.11	0.34	4.55	637
Correct.6	0.91	45.70	0.34	4.48	34
Correct.7	0.91	45.72	0.34	4.49	619

Correct.8	0.90	44.93	0.34	4.51	546
Correct.1	0.85	40.75	0.36	4.81	694
Correct.2	0.87	42.41	0.40	5.36	862
Correct.3	0.89	43.89	0.39	5.11	791
Correct.4	0.89	43.44	0.38	4.99	818
Correct.6	0.88	43.01	0.38	5.01	812
Correct.7	0.87	42.04	0.36	4.71	713
Correct.8	0.88	42.65	0.37	4.89	807
Correct.1	0.91	44.98	0.34	4.51	629
Correct.2	0.91	45.19	0.34	4.52	638
Correct.3	0.86	41.20	0.01	0.07	399
Correct.4	0.92	45.90	0.34	4.50	654
Correct.5	0.91	45.51	0.34	4.48	657
Correct.6	0.90	44.61	0.34	4.47	630
Correct.8	0.90	44.91	0.34	4.44	648
Correct.1	0.88	42.85	0.38	5.02	853
Correct.2	0.87	42.17	0.36	4.76	722
Correct.3	0.86	41.20	0.35	4.64	703
Correct.4	0.87	42.17	0.35	4.69	751
Correct.1	0.85	40.80	0.34	4.53	728
Correct.2	0.88	42.62	0.33	4.35	707
Correct.3	0.85	40.68	0.33	4.38	710
Correct.4	0.72	29.82	0.01	0.19	354
Correct.5	0.88	43.18	0.36	4.83	786
Correct.6	0.86	41.40	0.01	0.08	385
Correct.7	0.87	42.07	0.01	0.07	385
Correct.8	0.88	42.75	0.32	4.28	700
Correct.1	0.86	41.40	0.01	0.16	320
Correct.2	0.88	42.74	0.30	4.00	665
Correct.3	0.76	33.21	0.03	0.34	196
Correct.4	0.90	44.66	0.29	3.89	647
Correct.5	0.87	42.53	0.26	3.39	825
Correct.6	0.87	42.39	0.26	3.48	617
Correct.7	0.86	41.14	0.20	2.62	669
Correct.8	0.88	42.94	0.24	3.23	287
Correct.1	0.88	42.84	0.35	4.61	727
Correct.2	0.87	42.17	0.33	4.31	673
Correct.3	0.81	37.72	0.01	0.10	279
Correct.4	0.77	33.75	0.01	0.12	49

Correct.1	0.92	46.05	0.37	4.84	730
Correct.2	0.88	43.31	0.38	5.03	775
Correct.3	0.88	42.72	0.37	4.92	779
Correct.4	0.91	45.17	0.37	4.88	767
Correct.5	0.88	42.88	0.38	5.00	773
Correct.6	0.87	42.26	0.37	4.90	800
Correct.7	0.87	41.91	0.36	4.72	792
Correct.8	0.87	42.32	0.37	4.88	694
Correct.1	0.87	42.28	0.37	4.96	792
Correct.2	0.89	43.58	0.36	4.71	749
Correct.3	0.86	41.20	0.35	4.61	703
Correct.4	0.87	42.23	0.35	4.68	731
Correct.5	0.84	39.93	0.27	3.63	731
Correct.6	0.86	41.51	0.29	3.80	648
Correct.7	0.83	38.68	0.29	3.90	458
Correct.8	0.83	38.58	0.36	4.76	761
Correct.1	0.87	42.05	0.35	4.68	713
Correct.2	0.86	41.73	0.35	4.58	673
Correct.3	0.86	41.42	0.35	4.59	679
Correct.4	0.89	43.60	0.36	4.73	729
Correct.5	0.89	43.65	0.36	4.81	722
Correct.6	0.92	45.98	0.37	4.83	736
Correct.7	0.83	38.83	0.38	5.09	826
Correct.8	0.88	42.63	0.38	5.06	856

Failed Tunings

SqID	Failure reason
Correct.5	The temperature reading was invalid - is the squid controller plugged in?
Correct.6	The temperature reading was invalid - is the squid controller plugged in?
Correct.7	The temperature reading was invalid - is the squid controller plugged in?
Correct.8	The temperature reading was invalid - is the squid controller plugged in?
Correct.3	index 0 is out of bounds for axis 0 with size 0
Correct.8	The max peak to peak was less than 0.005. Squid may have trapped flux or not be functioning properly.
Correct.3	index 1 is out of bounds for axis 0 with size 1
Correct.7	The max peak to peak was less than 0.005. Squid may have trapped flux or not be functioning properly.
Correct.5	The temperature reading was invalid - is the squid controller plugged in?
Correct.6	The temperature reading was invalid - is the squid controller plugged in?

Correct.7	The temperature reading was invalid - is the squid controller plugged in?
Correct.8	The temperature reading was invalid - is the squid controller plugged in?
Correct.5	The temperature reading was invalid - is the squid controller plugged in?
Correct.6	The temperature reading was invalid - is the squid controller plugged in?
Correct.7	The temperature reading was invalid - is the squid controller plugged in?
Correct.8	The temperature reading was invalid - is the squid controller plugged in?