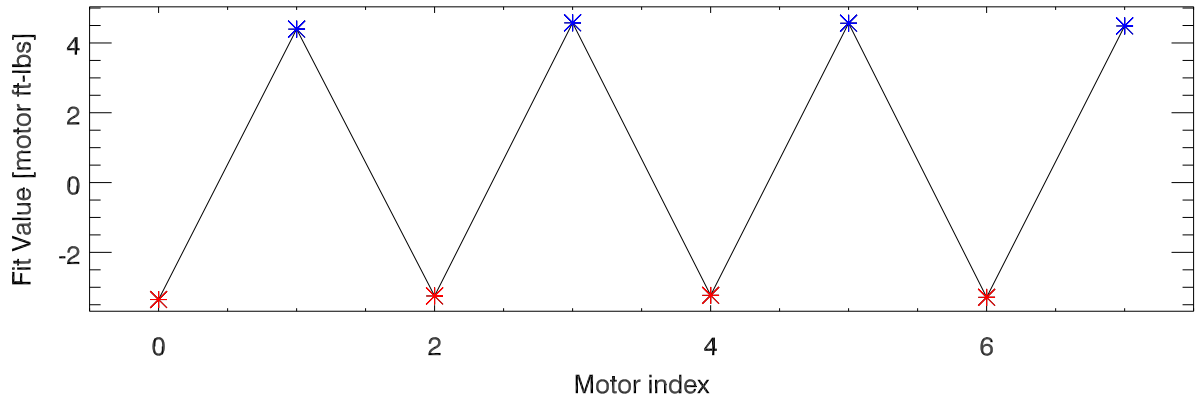
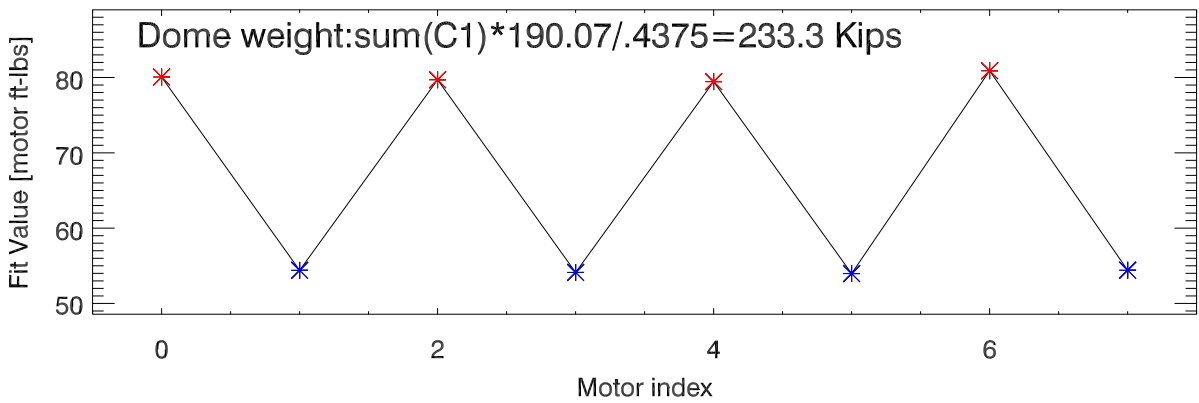


x0:m11  
 x1:m12  
 x2:m21  
 x3:m22  
 x4:m31  
 x5:m32  
 x6:m41  
 x7:m42

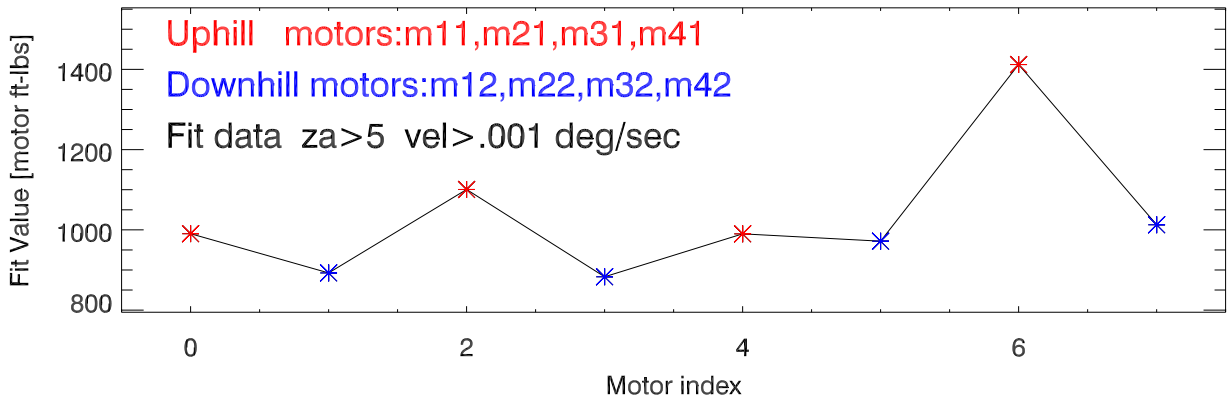
jun13:GrTorques. Fit:C0 + C1\*sinza + C2\*vel \* C3\*accel. (c0:Constant)



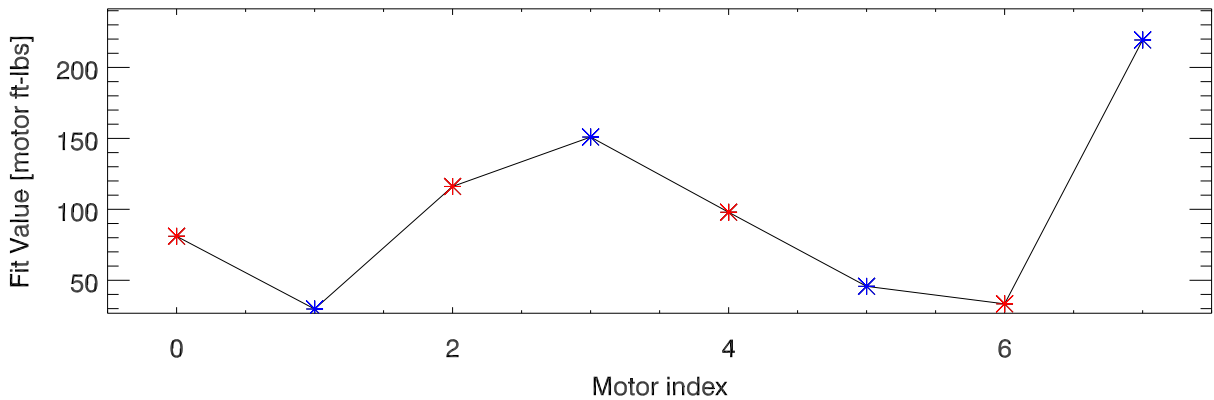
(c1\*sinza:Gravity)

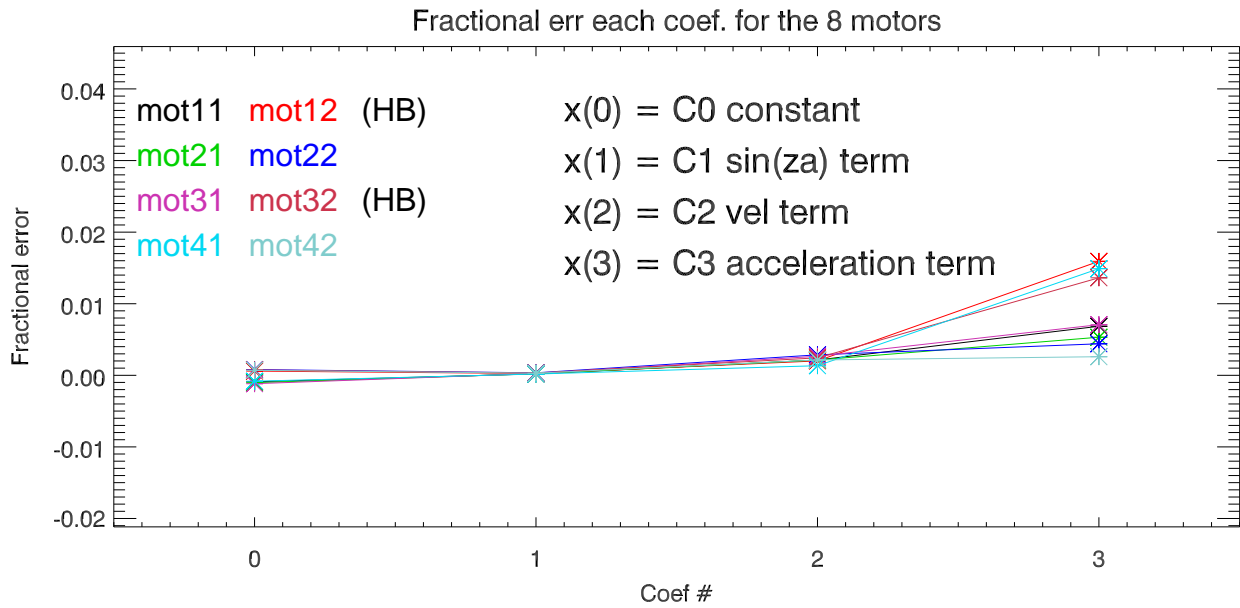
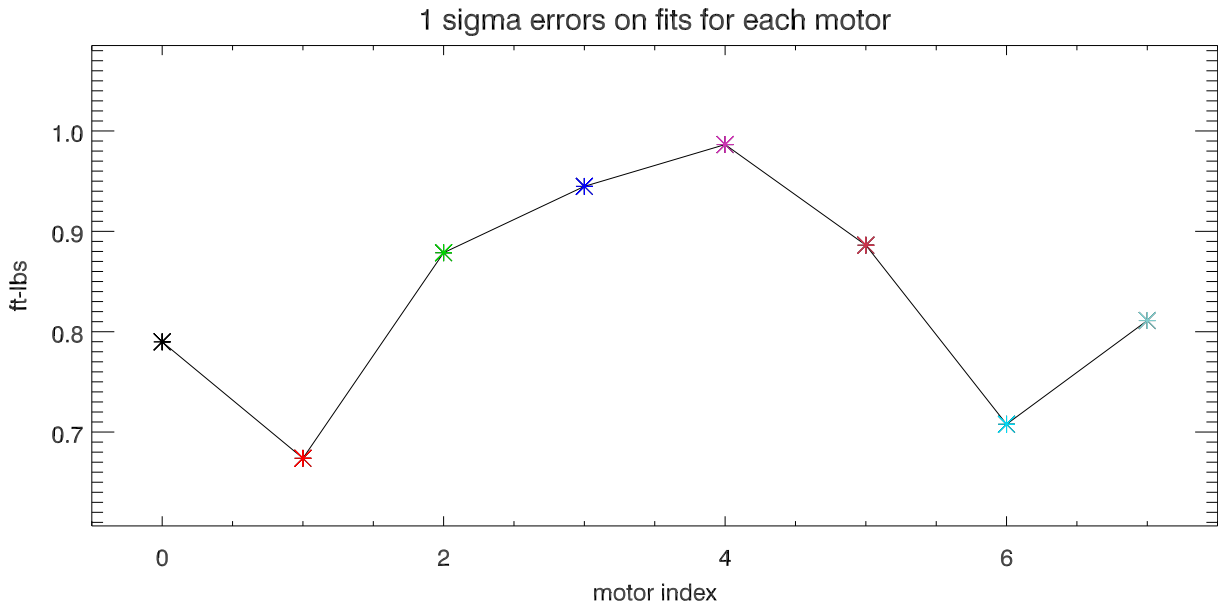


(c2\*vel (deg/sec):Friction)



(c3\*accel(deg/sec ^ 2):Acceleration)





Fit =  $C_0 + C_1 \sin(za) + C_2 \cdot \text{vel}(\text{deg}/\text{sec}) + C_3 \cdot \text{accel}(\text{deg}/\text{sec}^2)$   
 MaxVel = (.0147 deg/sec) maxAccel = (.025 deg/sec<sup>2</sup>)

Fit values (ft-lbs) for each motor

motor	C0	C1	C2	C3
m11	-3.35	80.07	990.47	81.02
m12	4.40	54.40	892.63	29.73
m21	-3.25	79.70	1100.72	116.08
m22	4.58	54.12	882.98	150.94
m31	-3.23	79.45	990.12	97.96
m32	4.57	53.97	971.80	45.73
m41	-3.29	80.89	1412.06	33.37
m42	4.49	54.41	1012.61	219.37