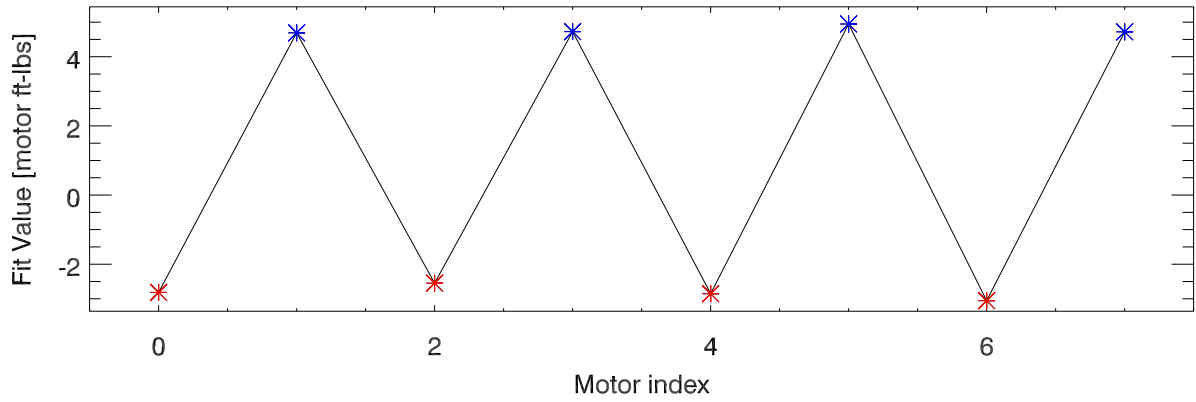
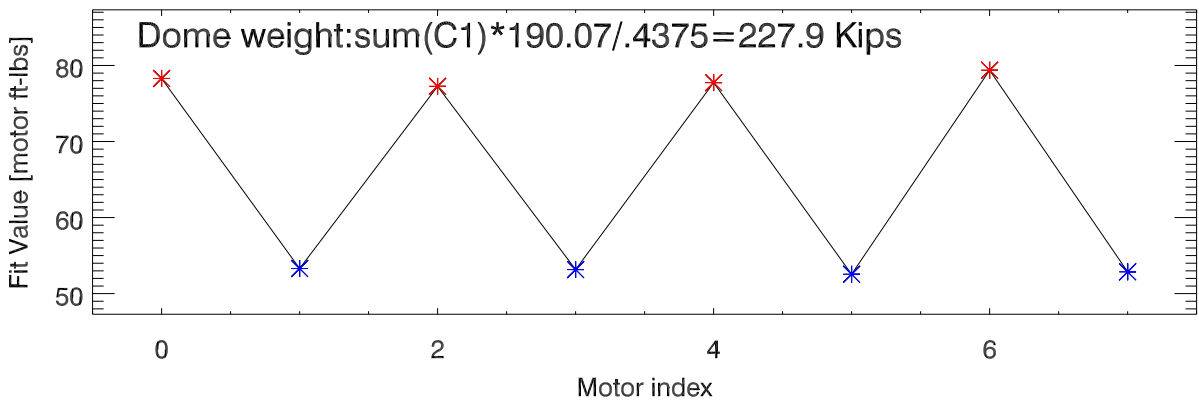


- x0:m11
- x1:m12
- x2:m21
- x3:m22
- x4:m31
- x5:m32
- x6:m41
- x7:m42

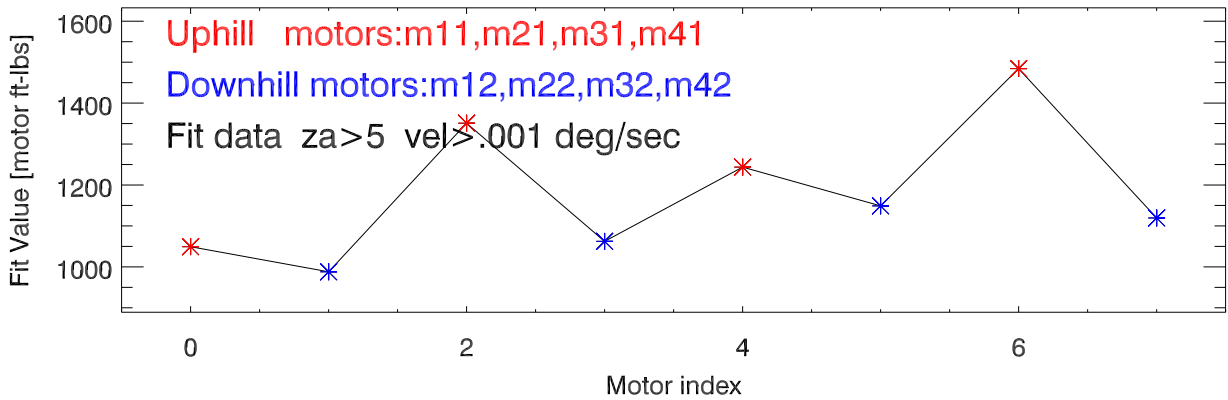
aug12:GrTorques. Fit:C0 + C1\*sinza + C2\*vel \* C3\*accel. (c0:Constant)



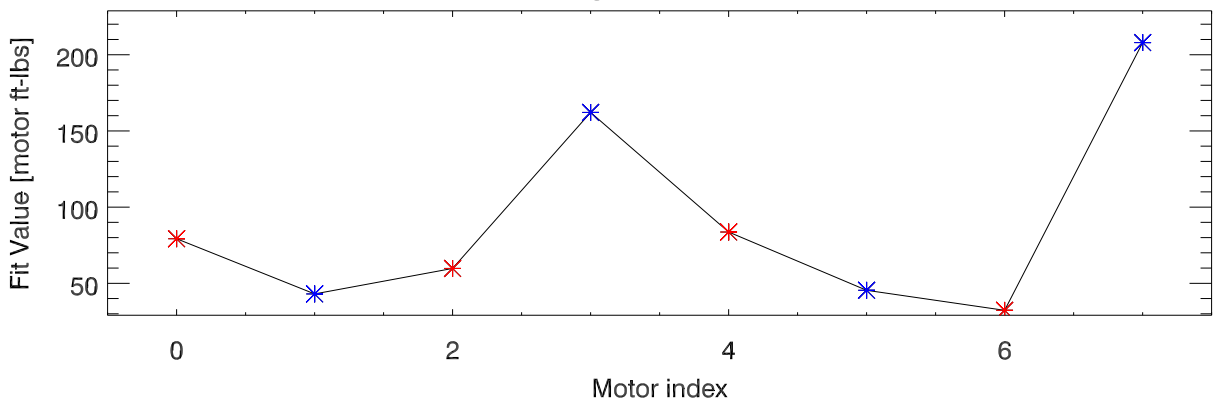
(c1\*sinza:Gravity)

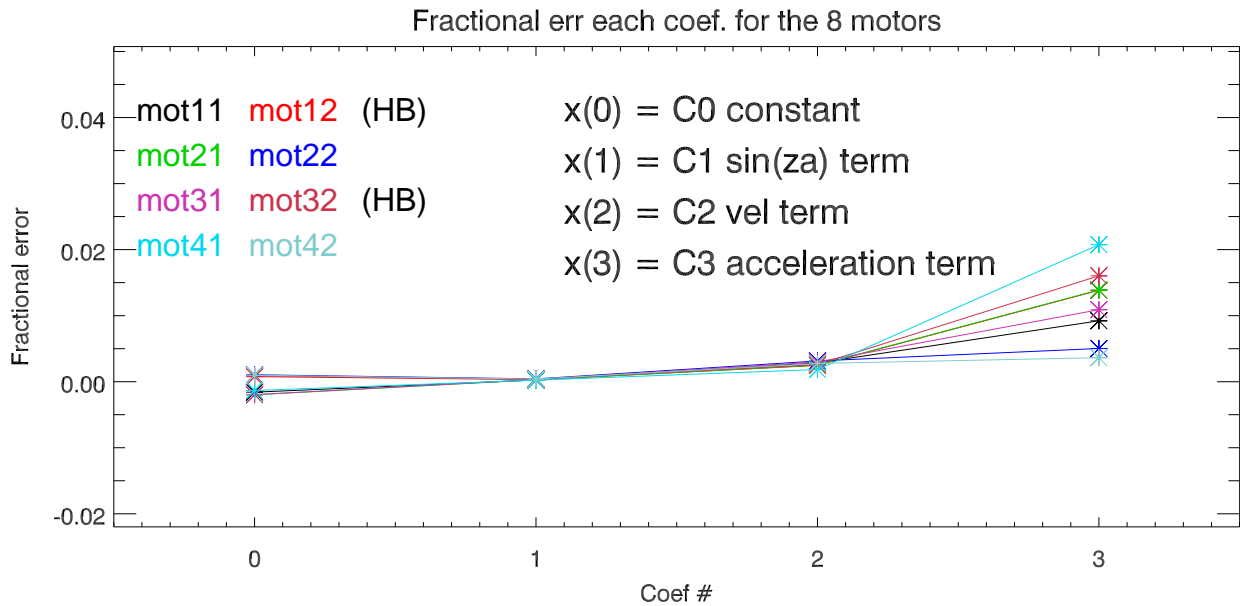
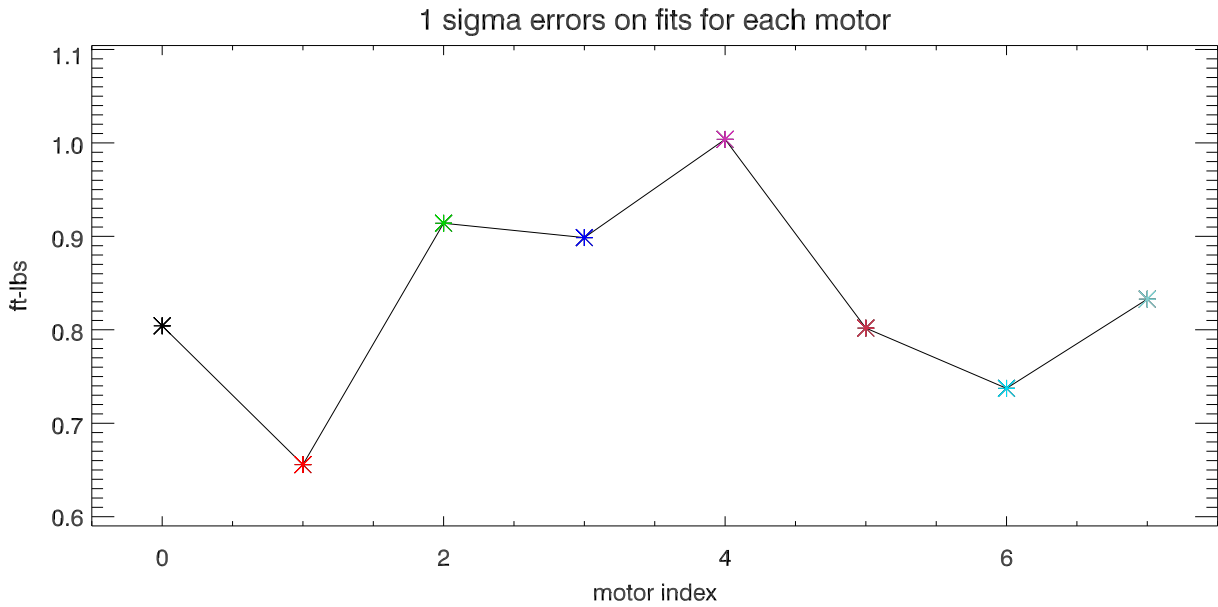


(c2\*vel (deg/sec):Friction)



(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	-2.82	78.29	1049.21	79.24
m12	4.69	53.31	987.95	43.03
m21	-2.55	77.26	1350.92	59.77
m22	4.73	53.16	1062.45	162.12
m31	-2.85	77.74	1243.61	83.64
m32	4.95	52.54	1148.91	45.43
m41	-3.05	79.37	1484.27	32.27
m42	4.72	52.87	1119.41	207.99