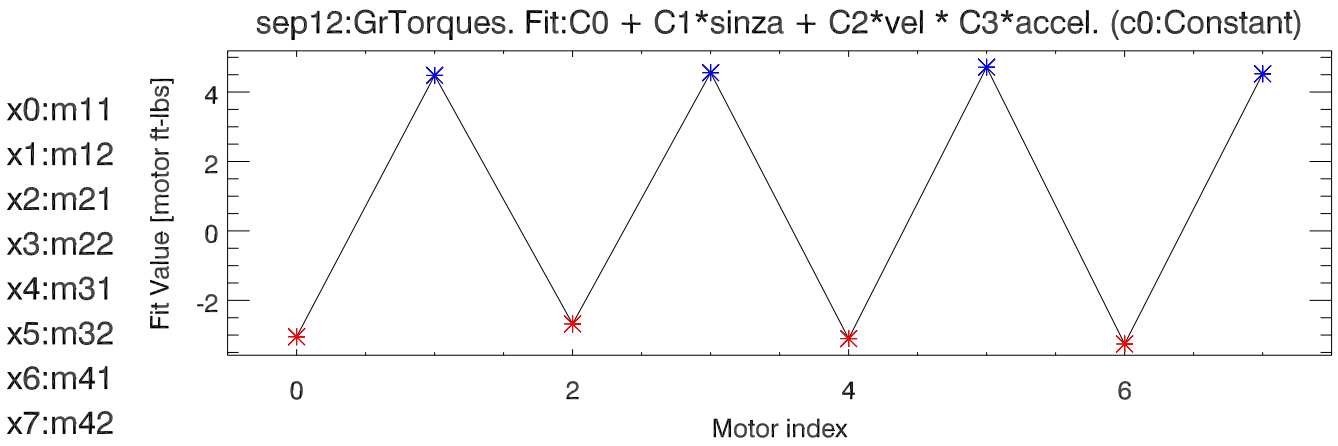
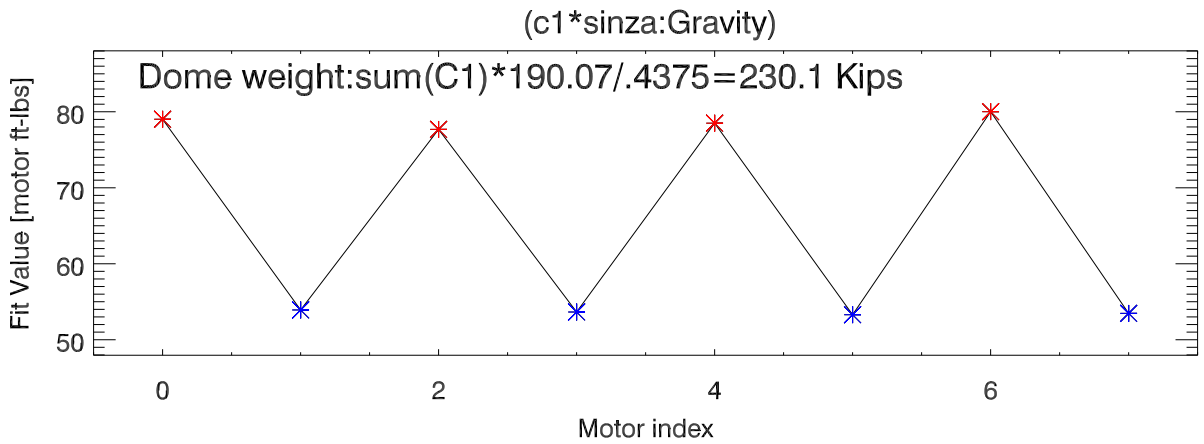
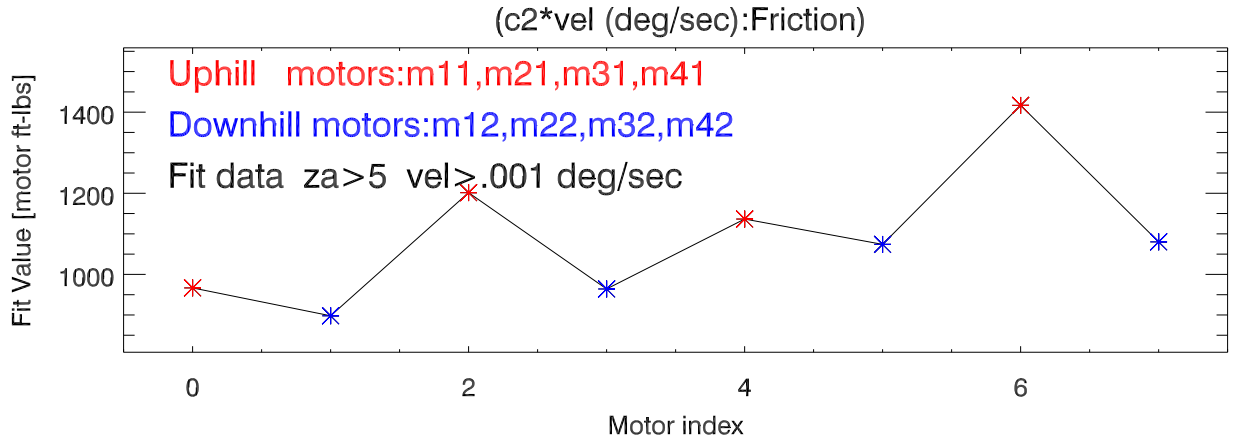
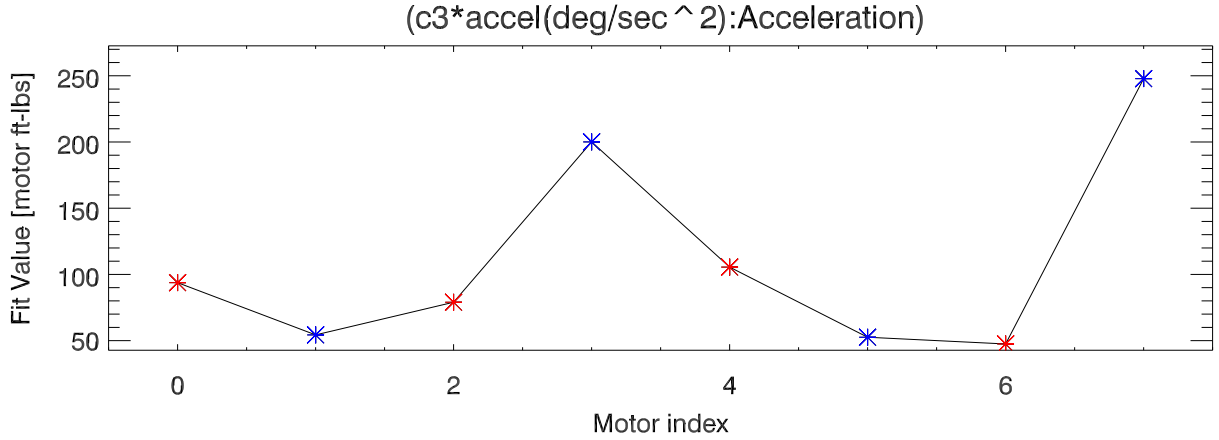
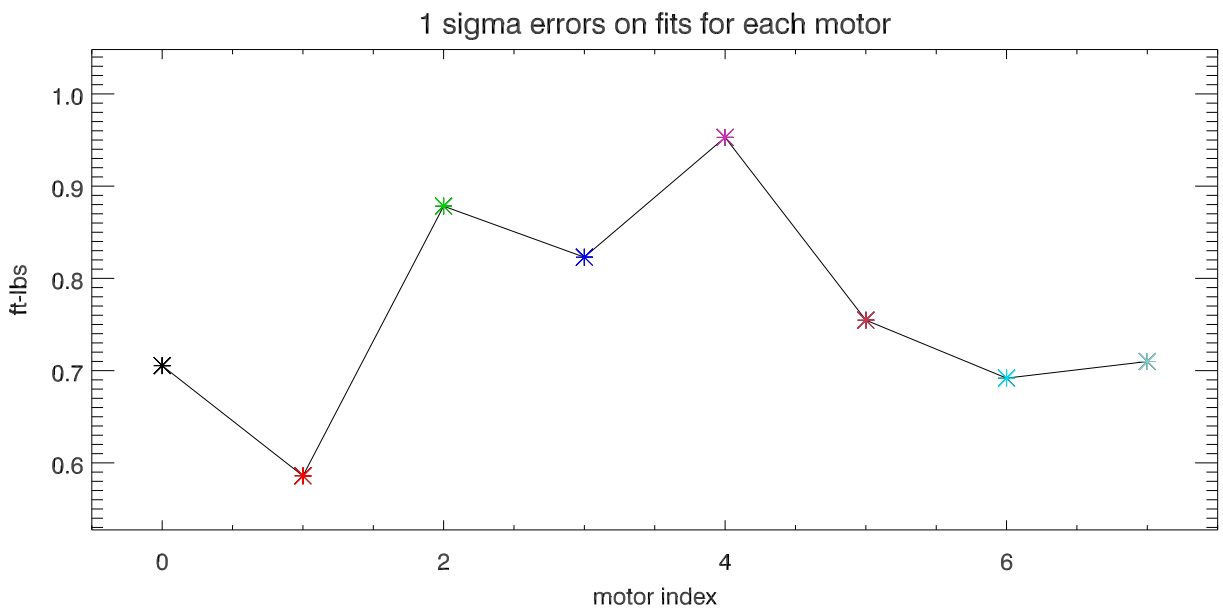
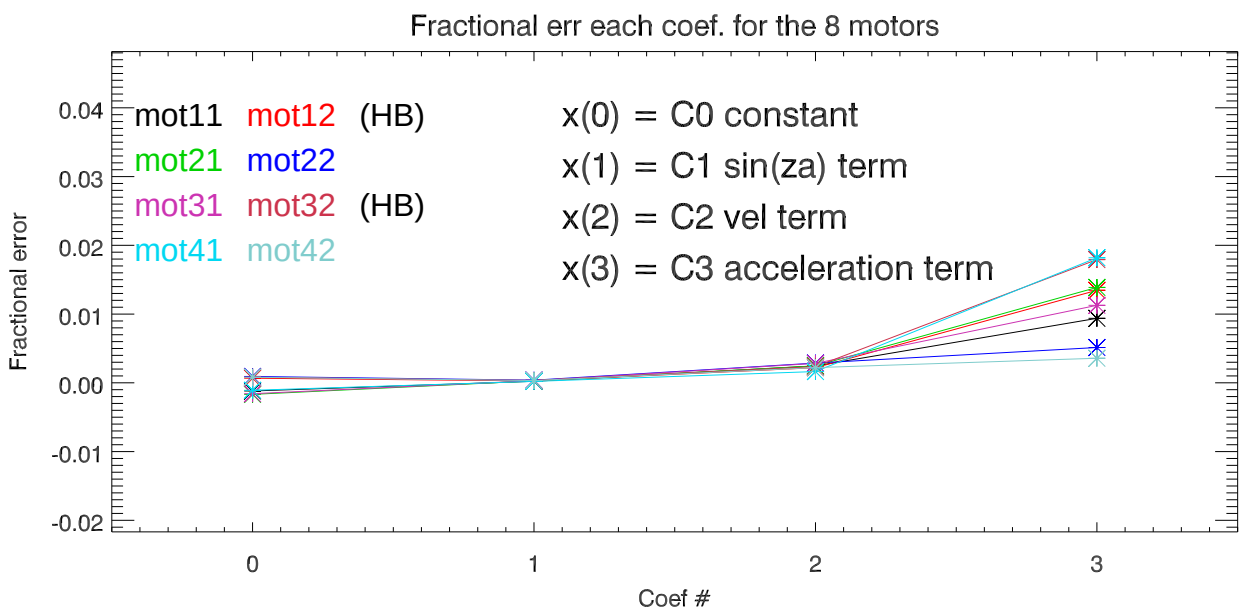

sep12:GrTorques. Fit:C0 + C1*sinza + C2*vel * C3*accel. (c0:Constant)
x0:m11
x1:m12
x2:m21
x3:m22
x4:m31
x5:m32
x6:m41
x7:m42
Fit Value [motor ft-lbs]
4
2
0
-2
0
2
4
6
Motor index


(c1*sinza:Gravity)
Dome weight:sum(C1)*190.07/.4375=230.1 Kips
Fit Value [motor ft-lbs]
80
70
60
50
0
2
4
6
Motor index


(c2*vel (deg/sec):Friction)
Uphill motors:m11,m21,m31,m41
Downhill motors:m12,m22,m32,m42
Fit data za>5 vel>.001 deg/sec
Fit Value [motor ft-lbs]
1400
1200
1000
0
2
4
6
Motor index


(c3*accel(deg/sec^2):Acceleration)
Fit Value [motor ft-lbs]
250
200
150
100
50
0
2
4
6
Motor index





Fit=C0 + C1*sinza + C2*vel(deg/sec) + C3*accel(deg/sec^2)
MaxVel=(.0147deg/sec) maxAccel=(.025 deg/sec^2)

Fit values (ft-lbs) for each motor

motor	C0	C1	C2	C3
m11	-3.05	79.02	966.72	93.79
m12	4.48	53.92	897.87	54.33
m21	-2.68	77.69	1201.43	79.02
m22	4.56	53.65	964.09	200.07
m31	-3.10	78.50	1136.48	105.51
m32	4.72	53.29	1073.95	52.55
m41	-3.26	80.02	1416.85	47.48
m42	4.52	53.47	1080.21	247.83