feb12: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
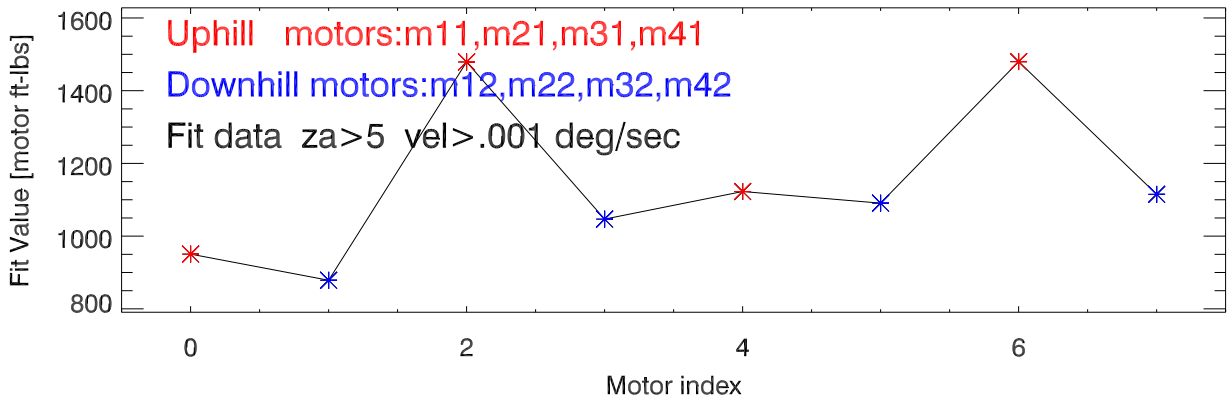x7:m42

(c1*sinza:Gravity)

Dome weight:sum(C1)*190.07/.4375=232.1 Kips

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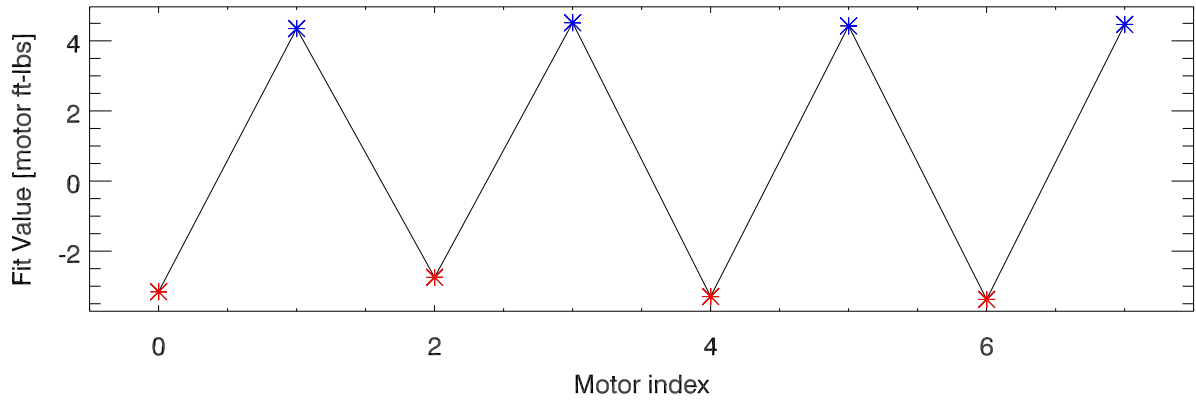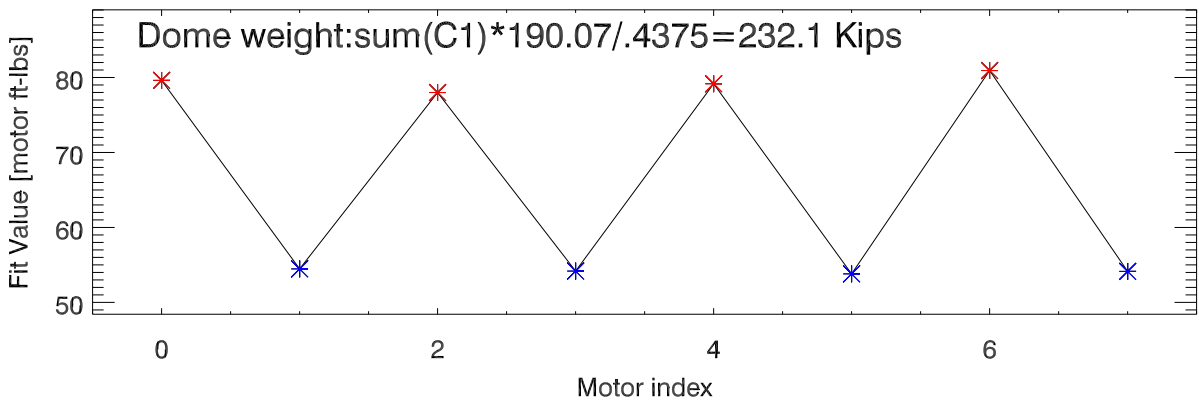
(c3*accel(deg/sec^2):Acceleration)

1 sigma errors on fits for each motor

Fractional err each coef. for the 8 motors

mot11 mot12 (HB)
mot21 mot22
mot31 mot32 (HB)
mot41 mot42

x(0) = C0 constant
x(1) = C1 sin(za) term
x(2) = C2 vel term
x(3) = C3 acceleration term
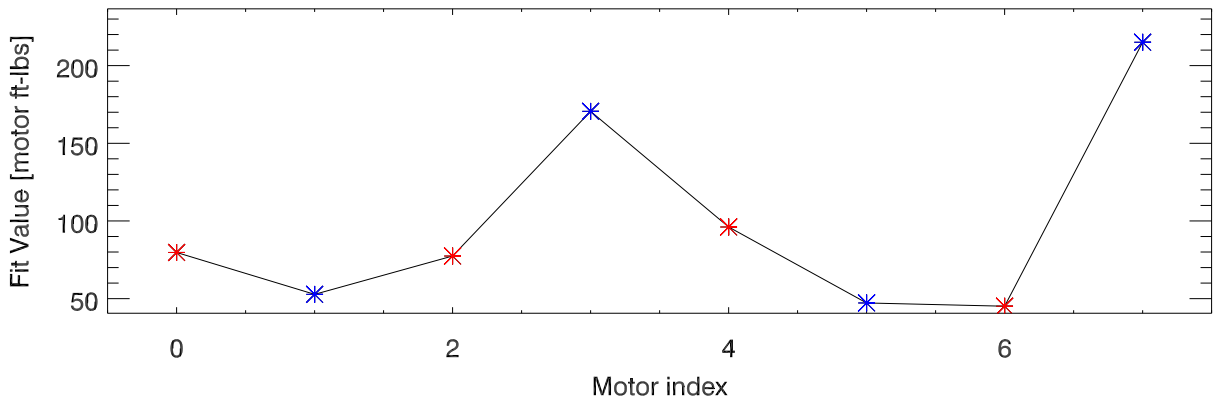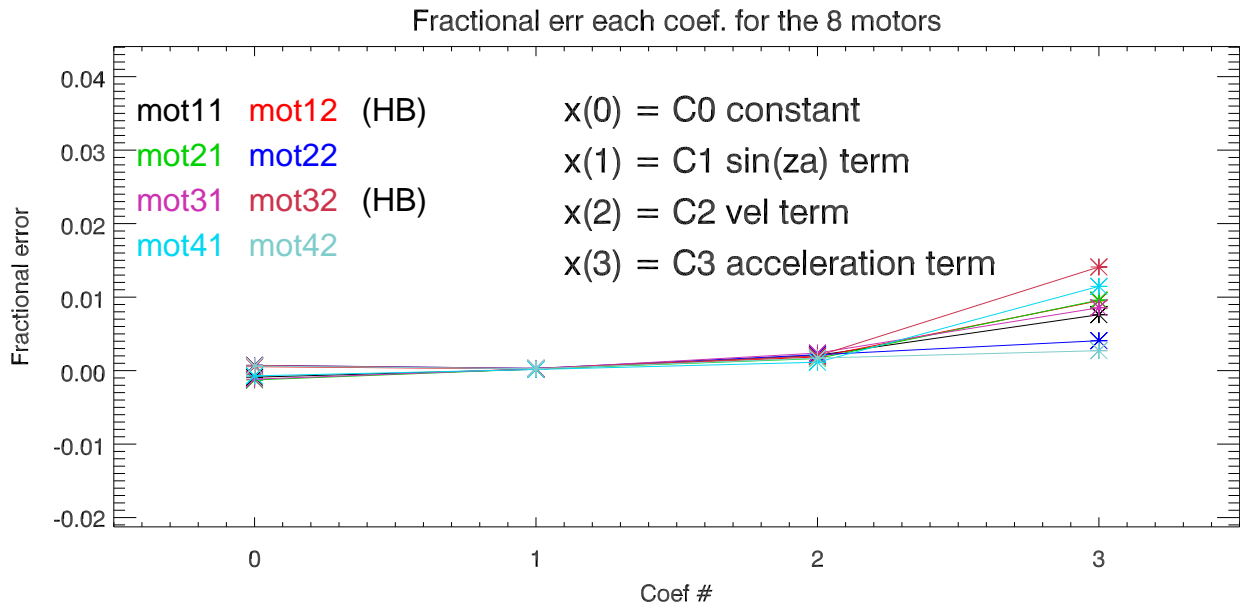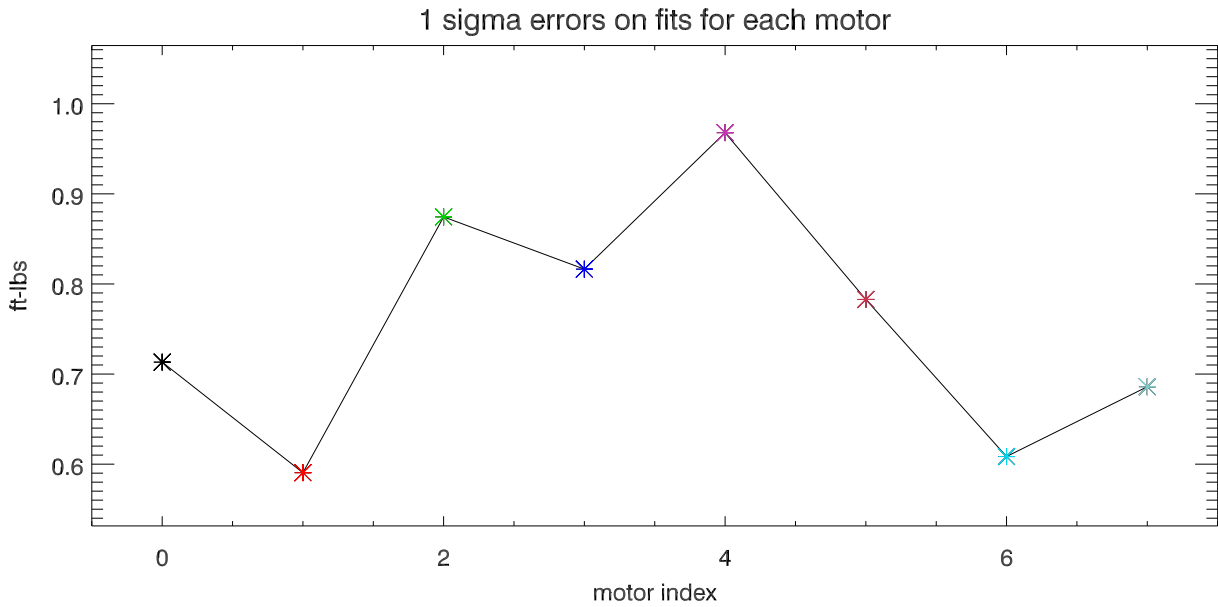
Fit=C0 + C1*sinza + C2*vel(deg/sec) + C3*accel(deg/sec^2)
MaxVel=(.0147deg/sec) maxAccel=(.025 deg/sec^2)

Fit values (ft-lbs) for each motor

motor	C0	C1	C2	C3
m11	-3.16	79.61	950.57	79.71
m12	4.35	54.47	878.51	52.78
m21	-2.75	78.00	1478.91	77.45
m22	4.52	54.18	1046.72	170.55
m31	-3.29	79.16	1122.76	96.13
m32	4.43	53.80	1090.59	47.20
m41	-3.38	80.93	1479.83	45.10
m42	4.47	54.14	1114.97	215.03