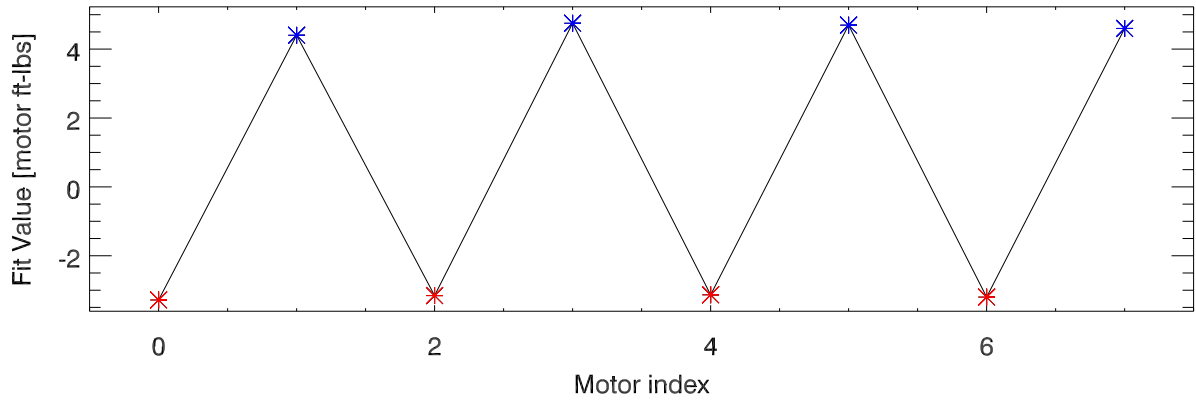
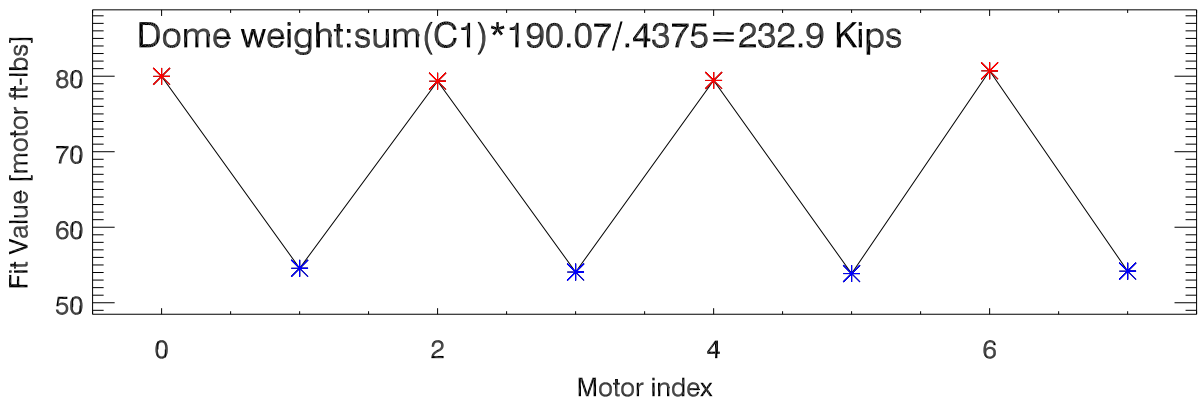


- x0:m11
- x1:m12
- x2:m21
- x3:m22
- x4:m31
- x5:m32
- x6:m41
- x7:m42

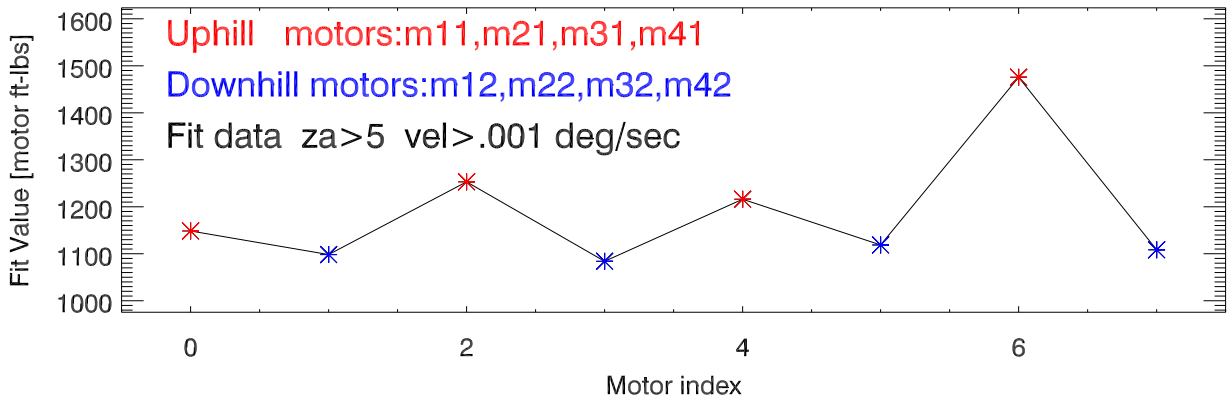
mar13:GrTorques. Fit:C0 + C1*sinza + C2*vel * C3*accel. (c0:Constant)



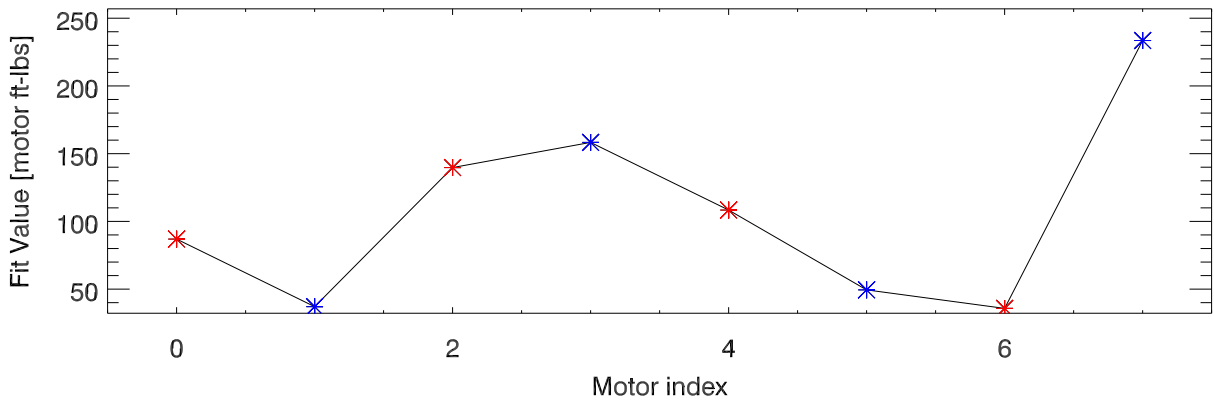
(c1*sinza:Gravity)

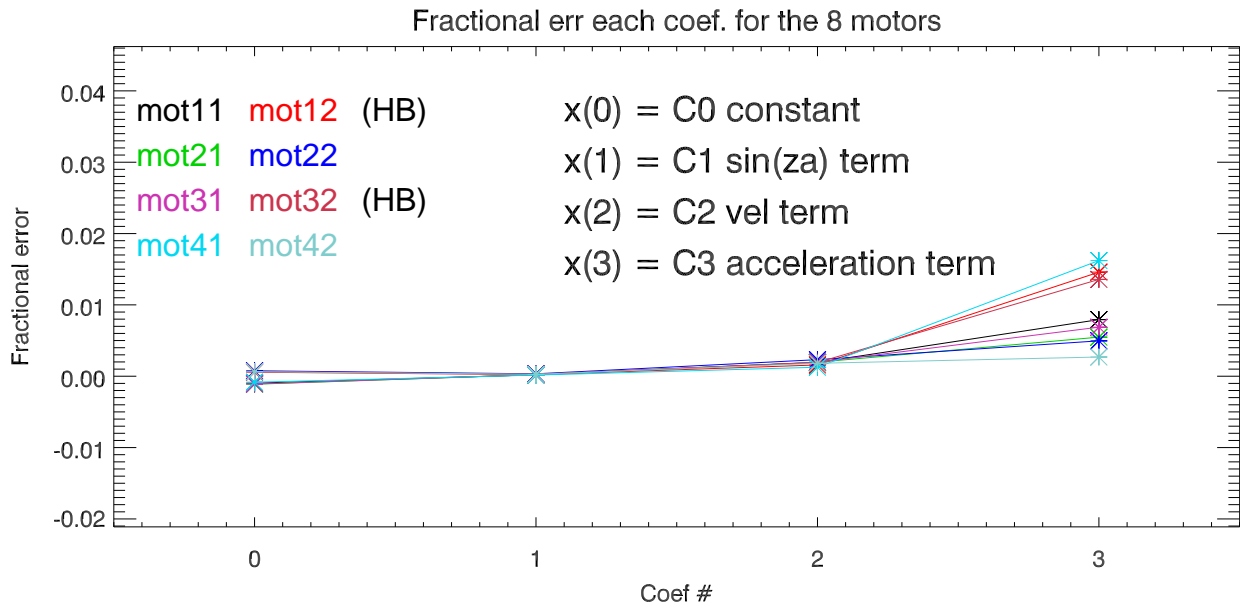
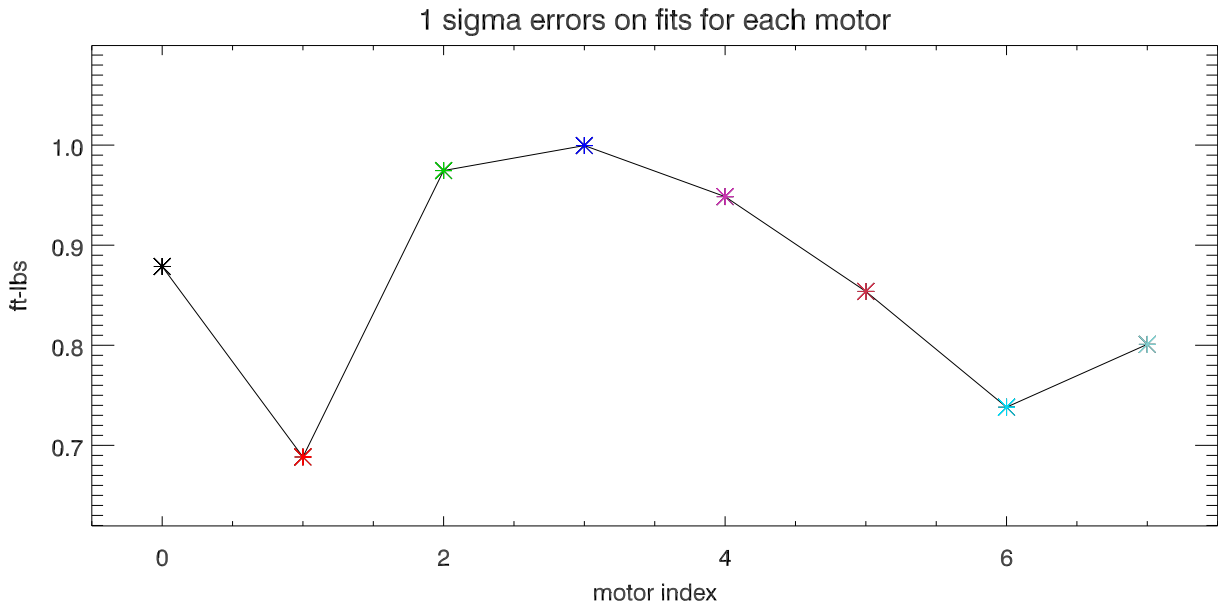


(c2*vel (deg/sec):Friction)



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





Fit = $C_0 + C_1 \sin(za) + C_2 \cdot \text{vel}(\text{deg/sec}) + C_3 \cdot \text{accel}(\text{deg/sec}^2)$
 MaxVel = (.0147 deg/sec) maxAccel = (.025 deg/sec²)

Fit values (ft-lbs) for each motor

| motor | C0 | C1 | C2 | C3 |
|-------|-------|-------|---------|--------|
| m11 | -3.28 | 79.98 | 1148.51 | 86.97 |
| m12 | 4.40 | 54.56 | 1098.27 | 37.09 |
| m21 | -3.16 | 79.34 | 1253.02 | 139.72 |
| m22 | 4.75 | 54.06 | 1083.89 | 158.32 |
| m31 | -3.13 | 79.43 | 1216.06 | 108.40 |
| m32 | 4.70 | 53.86 | 1118.78 | 49.44 |
| m41 | -3.20 | 80.71 | 1475.78 | 35.78 |
| m42 | 4.60 | 54.18 | 1108.47 | 233.56 |