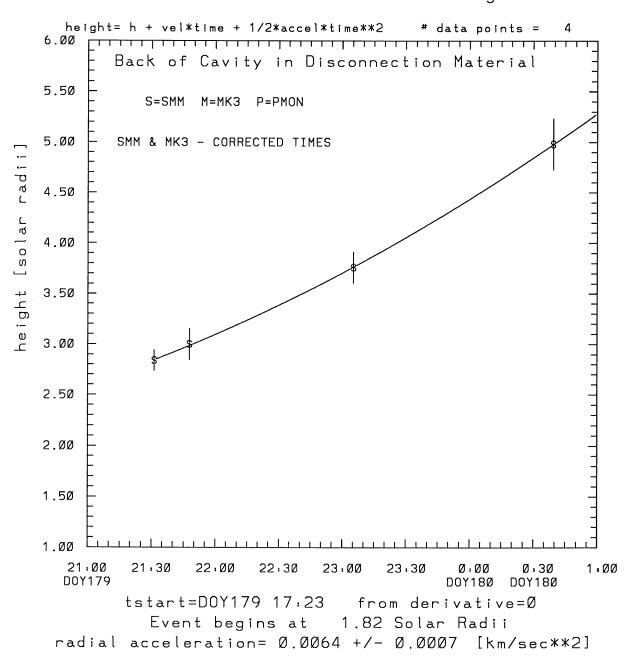
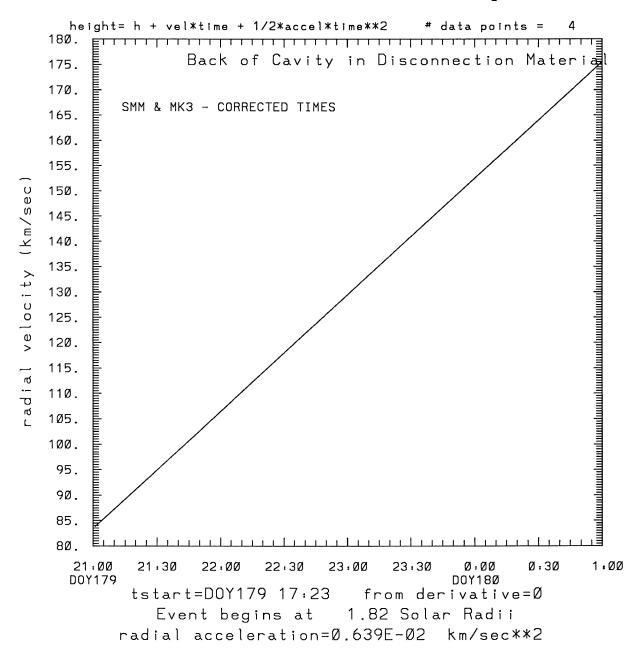


SMM C/P 1988 DOY179 91 +/- Ø degrees





This is a 1 order run ********

INPUT: *****

		error in	error in	
		radii radius	angle angle	datatype
		2.84 +/- 0.10	91.0 +/- 0.5	SMM
1988 179	21:47:43	3.00 +/- 0.15	91.0 +/- 1.0	SMM
1988 179	23: 5:16	3.76 +/- 0.15	91.0 +/- 1.0	SMM
1988 180	0:39:19	4.98 +/- 0.25	91.0 +/- 1.0	SMM

Structure being measured:

Back of Cavity in Disconnection Material

OUTPUT:

START TIME:

Event began at t = 0 + -0.136E + 03 + /- 0.461E + 01 [minutes] In more convenient units: Event began at DOY 179 18:44 +/- 0.461E+01 [minutes]

Origin defined at DOY179 21: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 126. +/-6. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

- c(1) =0.248E+01 +/- 0.475E-01 [solar radii]
- c(2) =0.109E-01 +/-0.527E-03 [radii/min]
- c(2) =0.126E+03 +/-0.611E+01 [km/sec]
- c(3) =0.000E+00 +/-0.000E+00 [radii/min**2]
- c(3) =0.000E+00 +/-0.000E+00 [km/sec**2]

The computed ERRORS in coefficients [BEVINGTON] are:

error in c(1)= 0.88066E-01 [radii] see Bevington pg. 114 error in c(2)= 0.68024E-03 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.0000E+00 +/- 0.0000E+00[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

```
a(1) = 91. +/- 0. [degrees]
```

a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]

a(2) = 0.000E + 00 + -0.000E + 00 [rad/sec]

a(3) = 0.000E + 00 + -0.000E + 00 [degrees/min**2]

a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec**2]

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 21:31 = 0. km/sec

The TOTAL velocity at 21:31 = 126. km/sec

The TANGENTIAL velocity at 21:47 = 0. km/sec

The TOTAL velocity at 21:47 = 126. km/sec

The TANGENTIAL velocity at 23: 5 = 0. km/sec

The TOTAL velocity at 23: 5 = 126, km/sec

The TANGENTIAL velocity at 0.39 = 0. km/sec

The TOTAL velocity at 0:39 = 126. km/sec

Fit is ok [ier=1]

Standard Deviation in the height = 0.98

Standard Deviation in start time measurement = 0.745E+0.2

Error in time =

0.13196E+02 using best fit method

See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.360E-02

Reduced Chi Squared = 0.371E-01

Chi Squared = 0.743E-01

The probability for exceeding chi square = 0.996E+00

The correlation coefficient = 0.997E+00

The probability that no LINEAR correlation exists between the variables = 0.2679E-02

SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

INIDI IT:

INPUT: *****

		error in	error in	
year doy	time	radii radius	angle angle	datatype
1988 179	21:31:13	2.84 +/- 0.10	91.0 +/- 0.5	SMM
1988 179	21:47:43	3.00 +/- 0.15	91.0 +/- 1.0	SMM
1988 179	23: 5:16	3.76 +/- 0.15	91.0 +/- 1.0	SMM
1988 180	0:39:19	4.98 +/- 0.25	91.0 +/- 1.0	SMM

Structure being measured:

Back of Cavity in Disconnection Material

OUTPUT:

START TIME:

tstart=DOY179 17:23 from derivative = 0 Event begins at 1.82 Solar Radii Origin defined at DOY179 21: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.639E-02 +/- 0.711E-03 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

```
c(1) = 0.260E+01 +/- 0.163E-01 [solar radii]

c(2) = 0.719E-02 +/- 0.420E-03 [radii/min]

c(2) = 0.834E+02 +/- 0.488E+01 [km/sec]

c(3) = 0.165E-04 +/- 0.184E-05 [radii/min**2]

c(3) = 0.639E-02 +/- 0.711E-03 [km/sec**2]
```

The computed ERRORS in coefficients [BEVINGTON] are:

```
Approximate error in c(1) = 0.26635E-01 [radii] Bevington pg 154 (8-30)

Exact error in c(1) = 0.84255E-02 [radii] Bevington pg 154 (8-28)

Approximate error in c(2) = 0.58619E-03 [radii/min] Bevington pg 154 (8-30)

Exact error in c(2) = 0.16735E-03 [radii/min] Bevington pg 154 (8-28)

Approximate error in c(3) = 0.22999E-05 [radii/min**] Bevington pg 154 (8-30)

Exact error in c(3) = 0.62835E-06 [radii/min**] Bevington pg 154 (8-28)
```

ANGULAR INFORMATION:

The computed ANGULAR coefficients and errors FROM NLLST2 are:

```
a(1) = 91. +/- 0. [degrees]
```

a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]

a(2) = 0.000E + 00 + -0.000E + 00 [rad/sec]

a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min**2]

a(3) = 0.000E+00 +/- 0.000E+00[rad/sec**2]

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 21:31 = 0. km/sec

The TOTAL velocity at 21:31 = 95. km/sec

The TANGENTIAL velocity at 21:47 = 0. km/sec

The TOTAL velocity at 21:47 = 102. km/sec

The TANGENTIAL velocity at 23: 5 = 0. km/sec

The TOTAL velocity at 23: 5 = 131. km/sec

The TANGENTIAL velocity at 0.39 = 0. km/sec

The TOTAL velocity at 0:39 = 168. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.98 Standard Deviation in start time measurement = 0.745E+02 Value of reduced Chi Squared returned from nllst2 = 0.131E-03 Reduced Chi Squared = 0.568E-03 Chi Squared = 0.568E-03

The probability for exceeding chi square = 0.991E+00

For a second order fit 3 correlation coefficients are given:

(Using equation of motion: r = a + bt + at**2)

The correlation between the data and the term linear in time = 0.9022E+00

The correlation between the data and the time**2 term = 0.8155E+00

0The correlation between the data and the complete equation of motion = 0.9984E+00

SEE BEVINGTON "Data Reduction and Error Analysis" [1969]