SMM C/P 1988 DOY348   77 +/-   Ø degrees

height = h + velocity*time   # data points =   3

Top of Filled Front — Loop

S=SMM   M=MK3   P=PMON

SMM & MK3 - CORRECTED TIMES
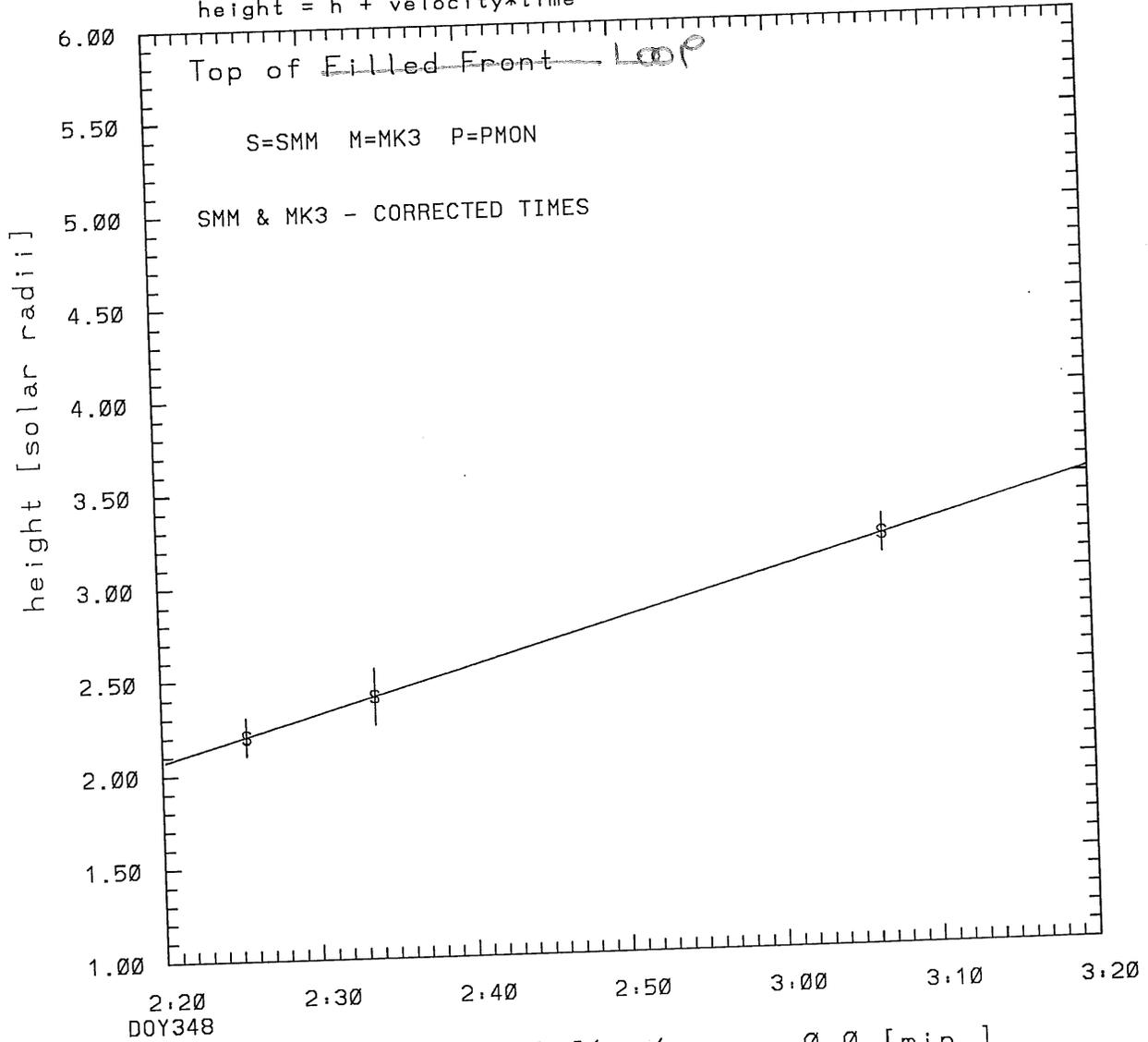
tstart=DOY348 1:36 +/-   Ø.Ø [min.]
radial velocity= 281. +/-   Ø. [km/sec]

SMM C/P 1988 DOY348   77 +/- Ø degrees

height= h + vel*time + 1/2*accel*time**2   # data points =   3

Top of Filled Front

S=SMM   M=MK3   P=PMON

SMM & MK3 - CORRECTED TIMES

height [solar radii]

6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00

2:20   2:30   2:40   2:50   3:00   3:10   3:20
DOY348
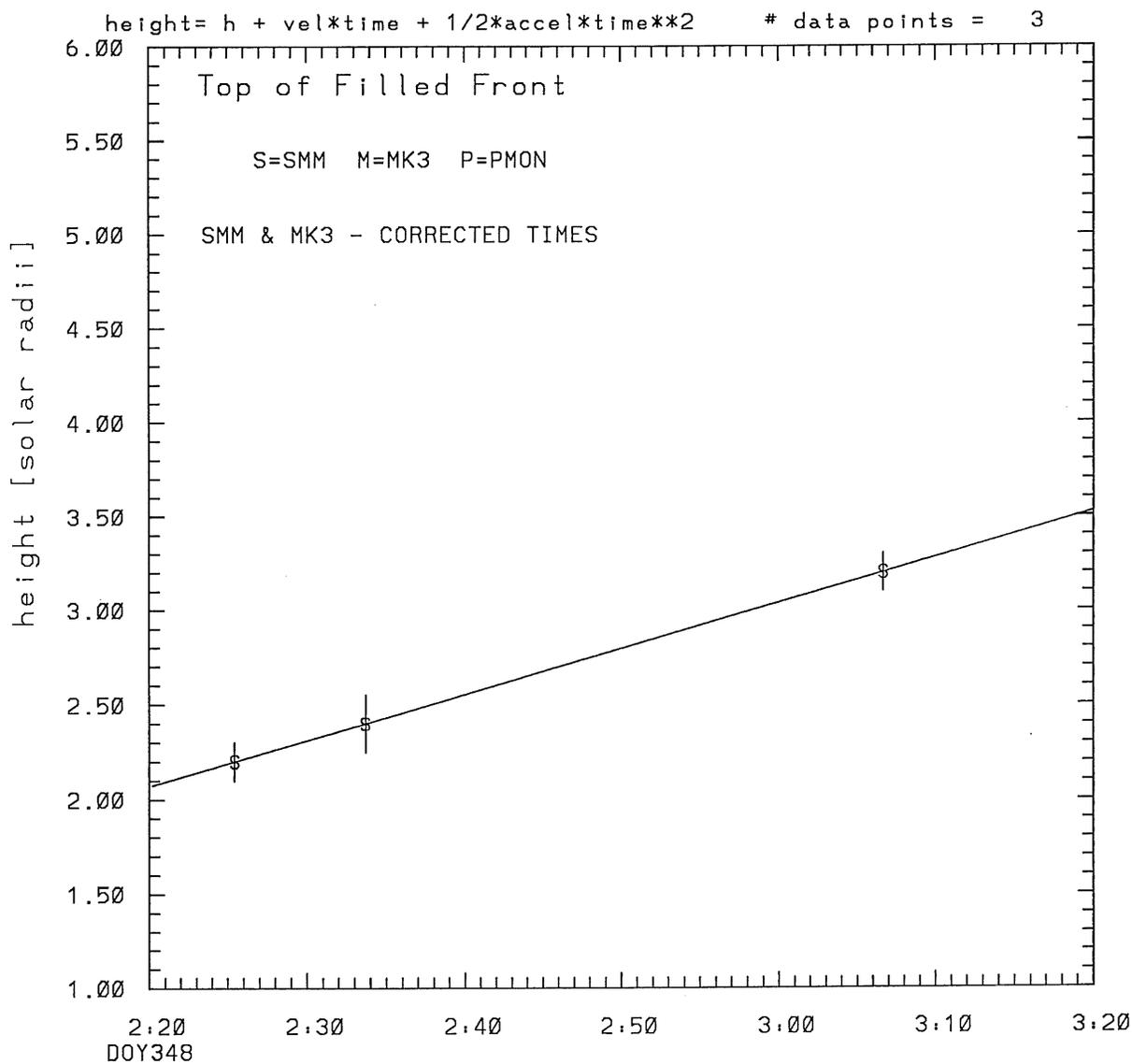
tstart=DOY348 1:36 +/-   Ø.Ø [min.]

radial acceleration= Ø.ØØØ6 +/- Ø.ØØØØ [km/sec**2]

SMM C/P 1988 DOY348   77 +/- Ø degrees

height= h + vel*time + 1/2*accel*time**2   # data points =   3

Top of Filled Front

SMM & MK3 - CORRECTED TIMES

radial velocity (km/sec)

283.

282.

281.

280.

2:20   2:30   2:40   2:50   3:00   3:10   3:20
DOY348
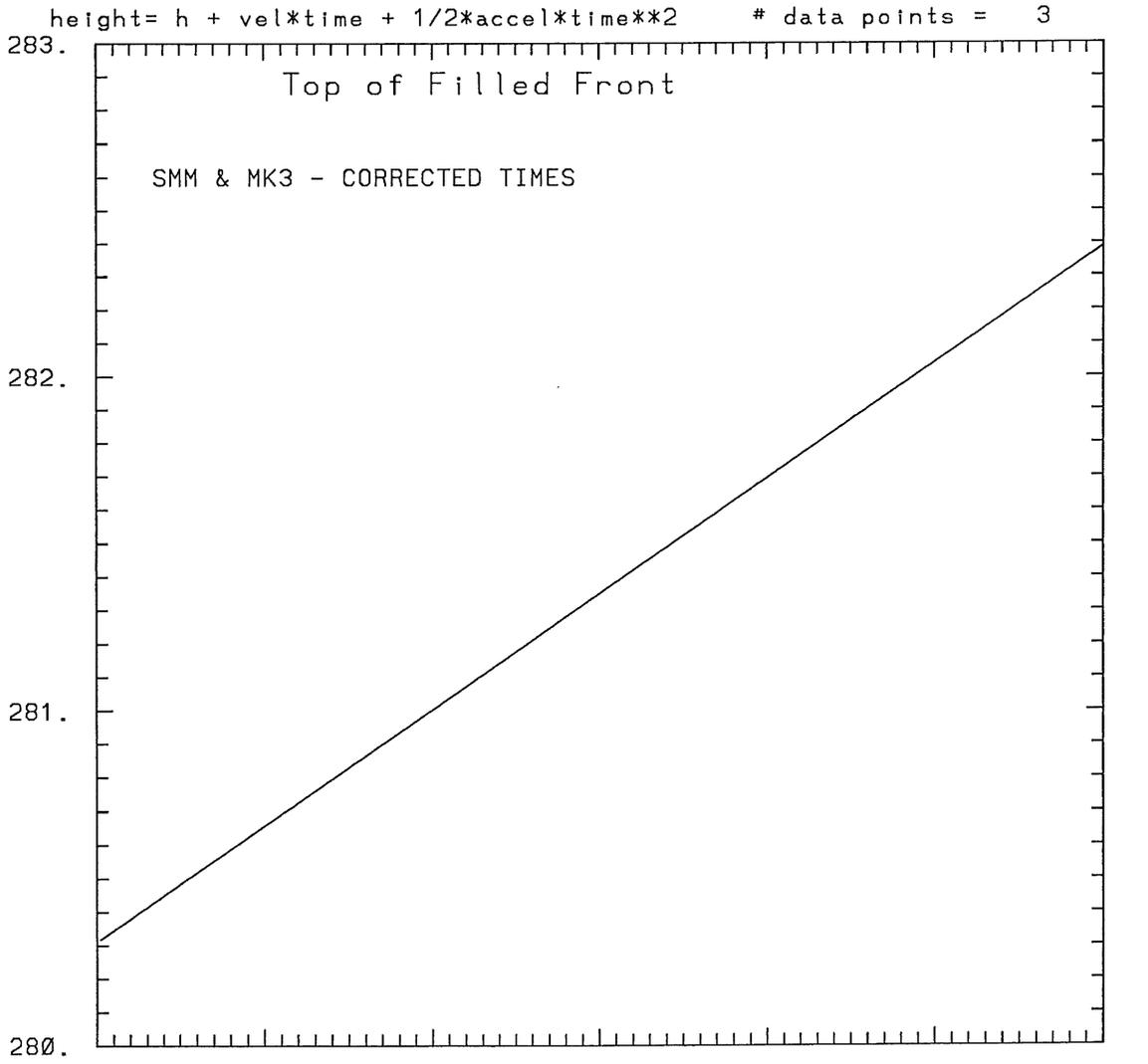
tstart=DOY348   1:36 +/-   Ø.Ø [min.]

radial acceleration=Ø.577E-Ø3 km/sec**2

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


******
  INPUT:
*******
```

year doy	time	radii radius	error in radius	angle	error in angle	datatype
1988 348	2:25:26	2.20 +/- 0.10		77.0 +/- 0.5		SMM
1988 348	2:33:42	2.40 +/- 0.15		77.0 +/- 0.5		SMM
1988 348	3: 6:41	3.20 +/- 0.10		77.0 +/- 1.0		SMM

```
*****************************************
  Structure being measured:
Top of Filled Front
*****************************************


********
  OUTPUT:
********


START TIME:

Event began at t = 0 + -0.441E+02 +/-  0.548E-02 [minutes]
In more convenient units:
Event began at DOY 348  1:36 +/- 0.548E-02 [minutes]


Origin defined at DOY348  2:20


RADIAL INFORMATION:


RADIAL VELOCITY =   281. +/-    0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) =   0.207E+01 +/-   0.170E-03 [solar radii]
c(2) =   0.242E-01 +/-   0.554E-05 [radii/min]
c(2) =   0.281E+03 +/-   0.643E-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)= 0.30241E-03 [radii] see Bevington pg. 114
        error in c(2)= 0.10700E-04 [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) = 77. +/-   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 2:25 =   0. km/sec
The TOTAL velocity at 2:25 = 281. km/sec

The TANGENTIAL velocity at 2:33 =   0. km/sec
The TOTAL velocity at 2:33 = 281. km/sec

The TANGENTIAL velocity at 3: 6 =   0. km/sec
The TOTAL velocity at 3: 6 = 281. km/sec

****
The following info is for estimating goodness of the fit
****

Fit is ok [ier=1]

Standard Deviation in the height = 0.53
Standard Deviation in start time measurement =   0.178E+02
Error in time =   0.13622E-01 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.342E-07
Reduced Chi Squared = 0.207E-06
Chi Squared = 0.207E-06
The probability for exceeding chi square = 0.100E+01

The correlation coefficient =   0.100E+01
The probability that no LINEAR correlation exists between the variables =   0.0000E+00
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

```
********************
 This is a 2 order run
********************


*******
 INPUT:
*******


                           error in       error in
year doy   time   radii  radius    angle  angle   datatype
1988 348  2:25:26  2.20 +/- 0.10   77.0 +/-  0.5     SMM
1988 348  2:33:42  2.40 +/- 0.15   77.0 +/-  0.5     SMM
1988 348  3: 6:41  3.20 +/- 0.10   77.0 +/-  1.0     SMM


*****************************************
 Structure being measured:
Top of Filled Front
*****************************************


*******
 OUTPUT:
*******


START TIME:


Event began at t = 0 + -0.443E+02 +/-  0.000E+00 [minutes]
In more convenient units:
Event began at DOY 348  1:36 +/-  0.000E+00 [minutes]


Origin defined at DOY348  2:20


RADIAL INFORMATION:


RADIAL ACCELERATION =  0.577E-03 +/-  0.391E-05 km/sec**2


The computed RADIAL coefficients and errors FROM NLLST2 are:


c(1) =   0.207E+01 +/-   0.377E-05 [solar radii]
c(2) =   0.242E-01 +/-   0.543E-06 [radii/min]
c(2) =   0.280E+03 +/-   0.630E-02 [km/sec]
c(3) =   0.149E-05 +/-   0.101E-07 [radii/min**2]
c(3) =   0.577E-03 +/-   0.391E-05 [km/sec**2]


ANGULAR INFORMATION:


ANGULAR ACCELERATION=  0.0000E+00 +/-   0.0000E+00[radians/sec**2]


The computed ANGULAR coefficients and errors FROM NLLST2 are:


a(1) =  77. +/-   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 2:25 =   0. km/sec
The TOTAL velocity at 2:25 = 280. km/sec

The TANGENTIAL velocity at 2:33 =   0. km/sec
The TOTAL velocity at 2:33 = 281. km/sec

The TANGENTIAL velocity at 3: 6 =   0. km/sec
The TOTAL velocity at 3: 6 = 282. km/sec

****
 The following info is for estimating goodness of the fit
****

Number data points = number of coefficients. No error analysis is possible.

Correlation coefficient is not computable!