

hw7_gen2

sig =

1e-05

xyzt =

1921.8	726.42	591.72
1900.9	710.91	513.92
1981.7	722.3	594.19
1916.8	713.28	534.13
1937.1	748.77	548.13
1894.5	727.97	562.49
1884.1	737.68	587.2
1974.5	743.46	573.27
1953.7	758.52	583.77
1934.4	737.78	514.21
1909.8	740.96	579.2
1921.2	723.9	603.46
1900.8	699.6	576.08
1965.6	748.58	517.63
1971.5	740.57	539.16
1893.2	693.93	597.76
1946.1	733.84	564.51
1879.5	733.88	526.25
1906.1	721.64	570.36
1937.6	722.85	572.78

ans =

588.23	2041.7	126.29
510.43	2017.2	117.65
590.7	2097.7	104.65
530.64	2033	115.23
544.64	2062.9	143.12
559	2016.1	135.85
583.71	2009	148.2
569.78	2097.1	126.99
580.28	2081.7	147.53
510.72	2057.1	133.4
575.71	2034.6	143.71
599.97	2040.4	124.06
572.59	2013.7	106.87
514.14	2090.1	134.51
535.67	2093.4	125.11
594.27	2004.7	103.73
561.02	2067.2	126.18
522.76	2003.5	145.93
566.87	2025.3	126.37
569.29	2055.7	118.21

B =

54.706	374.56	-1334.4	-1	0	0
39.746	-459.97	1656.9	0	-1	0
2124.8	100.51	0	0	0	-1
108.64	327.2	-1301.8	-1	0	0
78.93	-397.9	1622	0	-1	0
2077.4	94.88	0	0	0	-1
67.391	370.13	-1348.5	-1	0	0
48.963	-465.3	1713.1	0	-1	0
2178.6	79.86	0	0	0	-1
97.125	338.24	-1311.7	-1	0	0
70.565	-414.74	1641	0	-1	0
2098.6	91.906	0	0	0	-1
93.08	353.88	-1353.3	-1	0	0
67.627	-421.87	1651.7	0	-1	0
2131.7	117.96	0	0	0	-1
70.524	360.22	-1323.4	-1	0	0
51.239	-434.68	1623.7	0	-1	0
2091.5	110.57	0	0	0	-1
49.423	377.86	-1333.3	-1	0	0
35.908	-452.93	1617.8	0	-1	0
2092.5	121.49	0	0	0	-1
82.727	364.06	-1363.1	-1	0	0
60.105	-444.83	1694.1	0	-1	0
2171.8	101.78	0	0	0	-1
70.245	375.7	-1372.8	-1	0	0
51.036	-450.23	1673.2	0	-1	0
2160.6	120.96	0	0	0	-1
117.98	331.62	-1337	-1	0	0
85.719	-395.72	1643.7	0	-1	0
2115.6	109.84	0	0	0	-1
62.094	372.02	-1342.7	-1	0	0
45.114	-447.09	1637.9	0	-1	0
2114.4	117.49	0	0	0	-1

```

list4
45.416      380.74      -1333.7      -1      0      0
32.997      -469.87      1660.3      0      -1      0
2127.1      98.003      0      0      0      -1
60.268      360.25      -1300.6      -1      0      0
43.787      -450.2      1642.4      0      -1      0
2093.2      82.572      0      0      0      -1
123.56      333.9      -1356.8      -1      0      0
89.771      -398.34      1669.3      0      -1      0
2148      110.78      0      0      0      -1
108.08      343.82      -1354.3      -1      0      0
78.527      -417.32      1683.1      0      -1      0
2157.7      101.13      0      0      0      -1
41.434      371.95      -1296.3      -1      0      0
30.103      -468.35      1643.1      0      -1      0
2091.3      78.864      0      0      0      -1
82.005      358.77      -1344.4      -1      0      0
59.58      -437.81      1669.2      0      -1      0
2140.6      101.31      0      0      0      -1
94.977      341.97      -1319      -1      0      0
69.005      -403.61      1598.4      0      -1      0
2068.4      121.35      0      0      0      -1
67.025      362.22      -1322      -1      0      0
48.697      -442.55      1638.4      0      -1      0
2102.6      101.3      0      0      0      -1
72.997      361.41      -1332.8      -1      0      0
53.035      -445.77      1667.2      0      -1      0
2132.2      93.463      0      0      0      -1
ft =
Columns 1 through 7
-255.91      611      -656.35      -269.94      593.84      -645.21      -259.52
Columns 8 through 14
629.16      -674.49      -266.74      601.45      -651.18      -276.4      607.54
Columns 15 through 21
-660.18      -261.75      598.43      -646.66      -257.25      598.62      -645.29
Columns 22 through 28
-271.39      622.66      -672.53      -271.5      617.33      -667.6      -281.75
Columns 29 through 35
602.19      -657.04      -262.9      604.77      -652.95      -251.86      612.77
Columns 36 through 42
-656.59      -249.45      603.97      -647.58      -287.26      611.24      -667.36
Columns 43 through 49
-279.39      616.73      -669.76      -241.02      605.37      -645.98      -267.97
Columns 50 through 56
613.55      -662.87      -272.07      588.15      -640.65      -258.65      603.39
Columns 57 through 60
-650.21      -261.35      612.93      -660.01
parameter corrections
del =
-0.29349
0.11945
0.33898
-167.29
-116.47
46.329
condN =
1.9274e+10
parameter corrections
del =
-0.020297
-0.084619
-0.011128
166.9
114.19
-47.167
condN =
1.8169e+10
parameter corrections
del =
-0.00036969
7.1634e-05
0.00027396
0.12688
1.3091
1.3279
condN =
1.799e+10
parameter corrections
del =
-8.6286e-09

```

list4

```
-7.981e-08
-4.1225e-09
0.00020295
4.6873e-05
1.1748e-05
condN =
1.7989e+10
parameter corrections
del =
-1.5365e-15
-5.8582e-15
8.5295e-17
-1.0937e-13
4.0643e-12
-2.0432e-12
condN =
1.7989e+10
we have converged
6 parameters
ans =
-2.5197e-08      1.5708      1.2706
ans =
      8.7401      2.0298      3.4899
angles degrees
ans =
-1.4437e-06      90      72.8
residuals
v =
-1.6829e-05
-2.8713e-06
1.3655e-05
5.2908e-07
1.0425e-05
5.6731e-06
-3.1128e-06
4.1591e-06
4.1534e-06
8.9912e-06
1.5419e-05
-2.0299e-06
-1.524e-05
8.7974e-08
-1.61e-05
-1.2006e-06
7.6453e-06
-1.1587e-05
-4.7021e-06
-3.6086e-06
6.7557e-06
-7.9879e-07
-7.6277e-06
-8.9198e-06
1.6056e-05
5.0238e-06
-3.442e-06
3.8875e-06
-1.1523e-05
-7.6558e-06
9.8988e-06
7.5374e-06
6.211e-06
-1.2387e-06
1.0367e-05
1.528e-06
-1.3134e-05
-1.1988e-05
4.1317e-06
-6.677e-06
2.3022e-06
3.2216e-06
-8.362e-06
-4.0573e-07
1.5908e-05
1.0671e-05
-1.7136e-05
8.7723e-06
1.4961e-06
-4.2863e-06
-4.7081e-06
```

list4

1.1214e-05
1.2204e-06
-8.4792e-06
3.3072e-06
2.3549e-07
2.2448e-06
5.2438e-06
-4.9754e-06
-9.3322e-06
diary off